

16510 LIGHTING

(CSI: INTERIOR LUMINARIES)

GENERAL NOTES:

- **Refer to Room Finish Guidelines for specific lighting fixture applications and locations.**
- Specialty lighting (such as pendant fixtures) shall be acrylic and shall have dust covers and fluorescent lamps.
- Electrical devices (switches & plugs) shall be Leviton or Decora, color: white.
- Cove lighting is permitted in corridors only when approved by Tracy Smith Sare, Lead Project Manager, Architecture & Construction, 713.448.4002 or e-mail tracy.smithsare@memorialhermann.org

All consultants are required to comply with current MHHS Interiors Best Practices, whether new construction or renovation. For continuity, renovation projects shall incorporate the most current design concept and intent. Any deviation requires approval from Tracy Smith Sare, Lead Project Manager, Architecture & Construction, 713.448.4002 or e-mail tracy.smithsare@memorialhermann.org

Product: 2x4 Recessed Direct/Indirect Fluorescent (With Dust Shield)
Manufacturer: Lithonia
Series: Avante Series 2x4
Model: 2AVG-332-MDR-277-1/3-OSPS-ALG
Size: 23-11/16"W x 5-1/2"H
Number of Lamps: 3
Wattage: 32W T8
Ballast Type: Refer to MEP Best Practices
Lamp Size: T8
Lamp Color: Refer to MEP Best Practices

Remarks:

1. To be used in patient and public areas.
2. 2x2 fixture is acceptable upon approval by Tracy Smith Sare.
3. Electrical devices (switches & plugs) refer to MEP Best Practices

Location: See Part 3 - Interior Room Finish Guide

Alternate: Lightolier #QVS2GPFOS332 277-OSQT
Daybrite #2AVG332-PMW-277-1/3EB-PAF

Sample:



FEATURES

OPTICAL SYSTEM

- Twin matte white polyester powder paint finished reflectors provide uniform light distribution. Optional diffuse aluminum stepped reflectors available.
- All diffusers control direct light distribution and glare by shading lamps from direct view.
- All shieldings snap into place by pivoting on light trap for easy lamp access.
- Injection molded light traps prevent light leaks between shielding and endplates.

SHIELDING OPTIONS

- Metal Diffuser staggered Round holes (MDR) 52% open perforated metal with .075" diameter holes backed with white acrylic diffuser.
- Straight Blade Louver (SBL) sides of perforated metal with staggered round holes and solid blade louvered center. Sides and louver backed with white acrylic diffuser.
- Metal Diffuser aligned Mini slots (MDM) 46% open perforated metal backed with white acrylic diffuser.
- Acrylic Diffuser Prismatic lens (ADP) extruded acrylic lens backed with white acrylic diffuser.
- Metal Diffuser staggered Linear slots (MDL) 45% open perforated metal backed with white acrylic diffuser.

ELECTRICAL SYSTEM

- Class P, Thermally protected, resetting, HPF, Non-PCB, UL Listed, CSA-certified electromagnetic ballast is standard. Energy saving and electronic ballast are sound rated A. Standard combinations are CBM approved and conform to UL 935.

HOUSING

- Housing is powder painted cold rolled steel. All edges hemmed or rounded.
- Trims available for standard 1" tee bar, mini-tee bar, screw slot grids.
- Drywall ceiling adapters available.
- Fixtures can be row mounted end to end.

LISTING

- UL listed and labeled. Listed and labeled to comply with Canadian and Mexican Standards (see options).

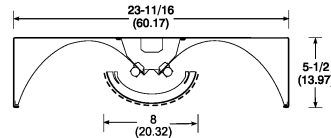
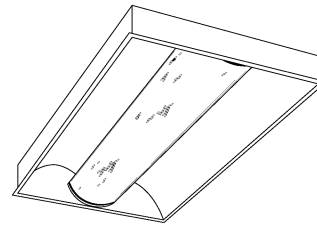
Specifications subject to change without notice.

Catalog Number	Type

Direct/Indirect General Lighting System

AV 2'x4'

T8, T5 or T5HO
1 or 2 lamp
Compact Fluorescent
1 lamp in cross section



Avante
Recessed Direct/Indirect Lighting

ORDERING INFORMATION

Example: 2AV G 2 32 MDR 120 GEB

Series	Lamps in Cross Section	Lamp Type	Voltage	Options
2AV	1, 2, 3	32 32W T8 (48") 28T5 28W T5 (46") 54HOT5 54W T5 HO (46") CF40 40W TT5 (24") CF50 50W TT5 (24") CF55 55W TT5 (24")	120, 277, 347 Others available	GEB Electronic ballast, <20% THD. GEB10IS Electronic ballast, ≤10% THD, Instant Start. GEB10RS Electronic ballast, ≤10% THD, Rapid Start. ADEZ Advance Mark X two-wire dimming ballast. (T8 only)
T2AV	Trim Type		Diffuser	EL Emergency battery pack (nominal 300 lumens, see Life Safety section). GLR Internal fast-blow fuse. GMF Internal slow-blow fuse. LP Lamped. Specify lamp type and color. PWS1836 6' prewire, 3/8" dia., 18-gauge, 3 wires. RIF Radio interference filter. HTC T-bar safety clips (snap-on). LATC T-bar safety clips (screw-on). CSA Listed and labeled to comply with Canadian Standards. NOM Listed and labeled to comply with Mexican Standards.
	G Grid trim ST Screw slot		MDR Metal diffuser, round holes. SBL Straight blade louver, round holes. MDM Metal diffuser, mini slots. ADP Acrylic diffuser, linear prismatic lens. MDL Metal diffuser, staggered linear slots.	<p>Reflector Option</p> <p>ASR Aluminum stepped reflector.</p>

LITHONIA LIGHTING
ARCHITECTURAL INDOOR LIGHTING

AV 2x4

Product: 2x4 Recessed Parabolic Fluorescent
Manufacturer: Lightolier
Series: 3" Deep Parabolic 18 cell Parabolic Louver
Model: DPA2G18LP332-277-OSQT
Size: 2' x 4'
Number of Lamps: 3
Wattage: 32 W T8 (48")
Ballast Type: Refer to MEP Best Practices
Lamp Size: T8
Lamp Color: Refer to MEP Best Practices

Remarks:

1. To be used in staff and limited public areas.
2. Dimming feature is permitted.
3. Electrical devices (switches & plugs) refer to MEP Best Practices

Location: See Part 3 - Interior Room Finish Guide

Alternate: Lithonia #2PM3N-G-B-332-18-WH-277-1/3 EB-PAF
Daybrite #2LP3GCC332-36W-277-1/3EB-PAF

Sample:



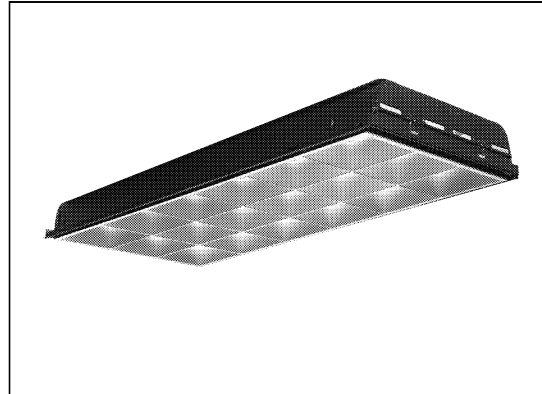
DEEPCEL *plus* **DPA2G18LP332**

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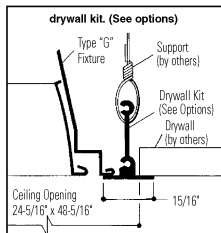
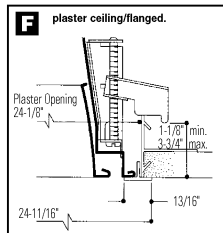
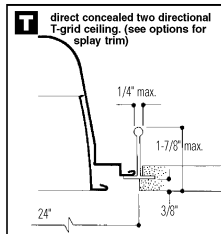
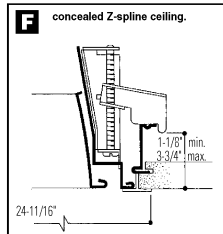
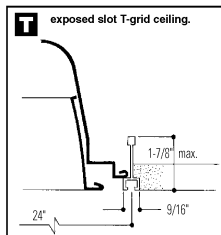
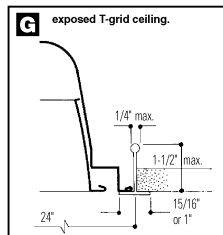
2'x4' RECESSED FLUORESCENT, 3" DEEP, 18 CELL PARABOLIC LOUVER
STATIC OR AIR SUPPLY/RETURN, 3 LAMP T8 OR T12

FEATURES

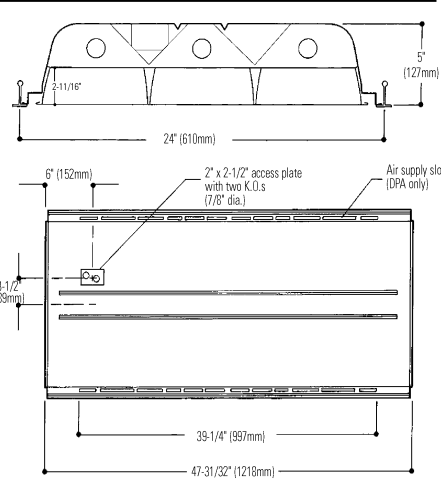
- 5" deep body.
- Individual lamp compartments.
- 77.6% efficient.
- Clean contoured interior.
- Eyeleted heat removal vents in fixture ends.
- One-piece housing has ribbed construction for added strength.
- Black exterior for cooler ballast operating temperature.
- Hemmed over side rails for safe handling.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips (patent no. 5,072,344).
- Pre-anodized aluminum parabolic louver.
- Vertical grain louver eliminates reflected lamp images on cross baffle.
- Spring-loaded rooster head latches.
- 18 gauge steel hinges.
- Louver frame with integral positive light stop.
- Louver has protective film dust guard.



MOUNTING METHODS



DIMENSIONS



Job Information	Type: LTG-2
Job Name: MEMORIAL HERMANN STANDARDS	
Cat. No.:	
Lamp(s):	
Volts/Ballast:	

Lightolier a Genlyte Thomas Company www.lightolier.com
 Technical Information: (978) 657-7600 • Fax (978) 658-0595
 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
 We reserve the right to change details of design, materials and finish.
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 A0902 **SECTION 2/Folio G51-44**

LIGHTOLIER®

Product: 2x4 Recessed Prismatic Fluorescent
Manufacturer: Lightolier
Series: Specplus
Model: SPS2GFSVA332-277-OSQT-PAF
Size: 2' x 4'
Number of Lamps: 3
Wattage: 32W T8 (48")
Ballast Type: Refer to MEP Best Practices
Lamp Size: T8
Lamp Color: Refer to MEP Best Practices

Remarks: 1. To be used in support areas, back of house areas, storage.
2. Electrical devices (switches & plugs) refer to MEP Best Practices

Location: See Part 3 - Interior Room Finish Guide

Alternate: Lithonia #2SP8-G-332-FW-A12-277-1/3 EB-PAF
Daybrite #2TG8332-FA12-277-1/3EB-PAF

Sample:



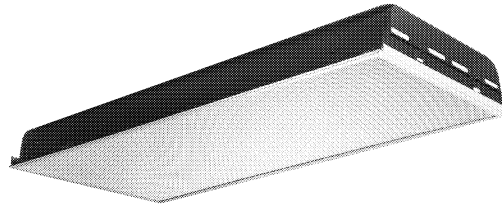
SPECPLUS **SPS2GFSVA332**

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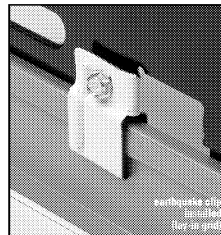
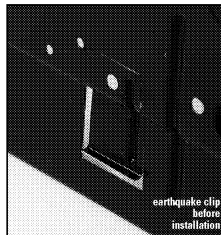
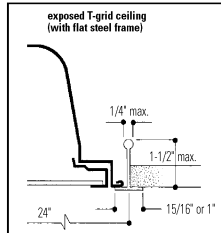
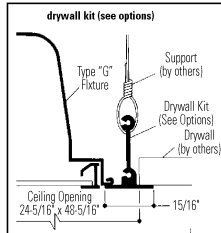
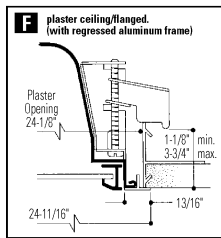
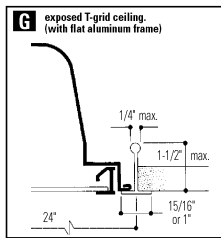
2'x4' RECESSED FLUORESCENT, LENS FRAME TROFFER, STATIC, 3 LAMP, T8 OR T12

Features

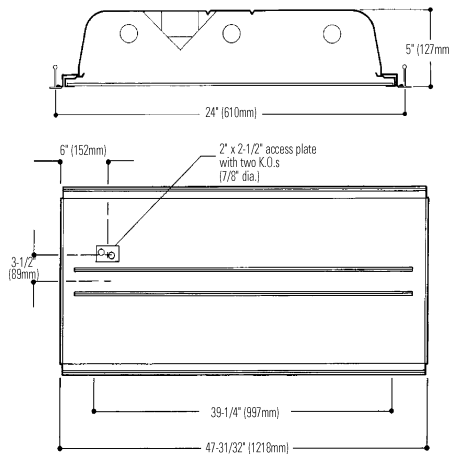
- 5" deep body.
- 3-1/16" lamp to lens for better lamp obscuration.
- 80.1% efficient.
- Clean contoured interior.
- One-piece housing has ribbed construction for added strength.
- Hemmed over side rails for maximum safety.
- Fixture ends turned-in for safe handling.
- Built-in earthquake clips (patent no. 5,072,344).
- Slimline door frame with 1000 square inch lens opening.
- Door jamb finished black on four sides for positive light stop.
- True mitered corner steel lens frame.
- Spring loaded rooster head latches.
- 18 gauge steel hinges.
- True mitered corner steel lens frame.
- Flat and regressed aluminum doors available.



MOUNTING METHODS



DIMENSIONS



Job Information	Type: LTG-3
Job Name: MEMORIAL HERMANN STANDARDS	
Cat. No.:	
Lamp(s):	
Volts/Ballast:	

Lightolier a Genlyte Thomas Company www.lightolier.com
 Technical Information: (978) 657-7600 • Fax (978) 658-0595
 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
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 A0902 **Section A/Folio E60-32**

LIGHTOLIER®



SPECPLUS **SPS2GFSVA332**

Page 2 of 2

2'x4' RECESSED FLUORESCENT, LENS FRAME TROFFER, STATIC, 3 LAMP, T8 OR T12

PHOTOMETRY

ifl boulder
 ILLUMINATION FACTOR LABORATORIES, INC. • 1085 HUGHSON ROAD, BOULDER, CO 80504 • PHONE (303) 440-1200
 REPORT NUMBER: 117-09185 DATE: 02/16/09
 PREPARED FOR: LIGHTOLIER
 CATALOG NUMBER: SPS2GFSVA332003RF
 DESCRIPTION: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH. FABRICATED WHITE PAINTED METAL BALLAST COVER, CLEAR FLAT PHOSPHATE PLASTIC LENS IN FABRICATED WHITE PAINTED METAL 1200 VYAKAL.
 LAMPS: THREE (3) T8 32W 4-PIN (F) TYPE LAMP, FLUORESCENT, BALLAST: ELECTRONIC, 32W 4-PIN (F) TYPE LAMP, FLUORESCENT.
 HOUSING: HOUSING
 TOTAL REFLECTANCE OF PARTS: 92.5 %
 THE 0 DEGREE BEAM ANGLE INCLUDES THE LAMPS.
 TOTAL INPUT WATTS: 96.0 AT 120.0 VOLTS
 DIMMING TO CAVITY FACTOR (CFO): 9.29
 BEPCFC: 15.0 CAVITY FACTOR PER LAMP.

CANDELA DISTRIBUTION

ANGLE	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	2894	2894	2894	2894	2894	2894	2894	2894	2894	2894	2894	2894	2894	2894	2894	2894	2894	2894	2894
5	2891	2891	2891	2891	2891	2891	2891	2891	2891	2891	2891	2891	2891	2891	2891	2891	2891	2891	2891
10	2882	2882	2882	2882	2882	2882	2882	2882	2882	2882	2882	2882	2882	2882	2882	2882	2882	2882	2882
15	2861	2861	2861	2861	2861	2861	2861	2861	2861	2861	2861	2861	2861	2861	2861	2861	2861	2861	2861
20	2829	2829	2829	2829	2829	2829	2829	2829	2829	2829	2829	2829	2829	2829	2829	2829	2829	2829	2829
25	2785	2785	2785	2785	2785	2785	2785	2785	2785	2785	2785	2785	2785	2785	2785	2785	2785	2785	2785
30	2729	2729	2729	2729	2729	2729	2729	2729	2729	2729	2729	2729	2729	2729	2729	2729	2729	2729	2729
35	2662	2662	2662	2662	2662	2662	2662	2662	2662	2662	2662	2662	2662	2662	2662	2662	2662	2662	2662
40	2585	2585	2585	2585	2585	2585	2585	2585	2585	2585	2585	2585	2585	2585	2585	2585	2585	2585	2585
45	2498	2498	2498	2498	2498	2498	2498	2498	2498	2498	2498	2498	2498	2498	2498	2498	2498	2498	2498
50	2401	2401	2401	2401	2401	2401	2401	2401	2401	2401	2401	2401	2401	2401	2401	2401	2401	2401	2401
55	2294	2294	2294	2294	2294	2294	2294	2294	2294	2294	2294	2294	2294	2294	2294	2294	2294	2294	2294
60	2177	2177	2177	2177	2177	2177	2177	2177	2177	2177	2177	2177	2177	2177	2177	2177	2177	2177	2177
65	2051	2051	2051	2051	2051	2051	2051	2051	2051	2051	2051	2051	2051	2051	2051	2051	2051	2051	2051
70	1917	1917	1917	1917	1917	1917	1917	1917	1917	1917	1917	1917	1917	1917	1917	1917	1917	1917	1917
75	1775	1775	1775	1775	1775	1775	1775	1775	1775	1775	1775	1775	1775	1775	1775	1775	1775	1775	1775
80	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625
85	1468	1468	1468	1468	1468	1468	1468	1468	1468	1468	1468	1468	1468	1468	1468	1468	1468	1468	1468
90	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305

AXIAL LUMEN SUMMARY

ANGLE	0	30	60	90	120	150	180
0	2894	2894	2894	2894	2894	2894	2894
30	2891	2891	2891	2891	2891	2891	2891
60	2882	2882	2882	2882	2882	2882	2882
90	2861	2861	2861	2861	2861	2861	2861
120	2829	2829	2829	2829	2829	2829	2829
150	2785	2785	2785	2785	2785	2785	2785
180	2729	2729	2729	2729	2729	2729	2729

CEILING TYPE: Grid (lay-in T bar)
 F=Flanged (overlap) Z spline and plaster frame

LENS/SHEILDING TYPE: VA (virgin acrylic) standard (see options and consult factory)

LAMP/FIXTURE LENGTH: 32-T8
 34-T12 (Nominal 48")

VOLTAGE: 120 or 277

BALLAST TYPE: LE
 1 & 2 Lamp Mag. T12
 1 & 2 Lamp Elec. T8
 1-3 Lamp Elec. T8
 L0L, T8 Dimming
 *Instant Start Standard

OPTIONS: Add appropriate suffix to catalog no., i.e. (GLR)

OTHER DIMMING OPTIONS: Consult factory.

MODEL NO. SPS2GFSVA332

Luminaire Efficacy Rating
 LER-70.6 Watts-84.4 BF-0.87

coefficients of utilization — zonal cavity method (effective floor cavity reflectance 0.20)

RC	20			30			40		
	70	50	30	50	30	10	50	30	10
1	88	84	81	79	77	75	76	74	72
2	81	74	69	70	66	63	67	64	61
3	74	66	60	62	58	54	60	56	53
4	68	59	52	56	50	46	54	49	46
5	63	53	46	50	45	40	49	44	40
6	58	48	41	46	40	36	44	39	35
7	54	44	37	42	36	32	41	35	31
8	50	40	33	38	33	28	37	32	28
9	47	37	30	35	30	26	34	29	26
10	44	34	28	33	27	23	32	27	23

visual comfort probability (rated lumens per lamp 3150)

room size	ceiling height	ceiling height			
		8.5	10.0	13.0	16.0
20	20	64	68	75	82
20	30	57	61	67	63
20	40	53	57	62	67
20	50	49	53	57	62
30	20	66	70	75	81
30	30	58	62	66	71
30	40	53	56	60	64
30	50	49	52	55	59
30	60	47	50	51	55
40	20	68	71	76	80
40	30	60	63	67	71
40	40	54	57	60	64
40	50	50	53	55	58
40	60	47	50	51	54
40	100	46	48	49	52
60	30	61	65	67	71
60	40	56	59	61	64
60	50	53	55	58	
60	60	47	50	50	54
60	100	46	48	49	51
100	40	59	62	64	67
100	60	53	56	57	60
100	80	50	52	52	55
100	100	48	49	49	52

ORDERING INFORMATION

Explanation of Catalog Number. Example: SPS2GFSVA33212003RF

SP SPECPLUS: Recessed fluorescent troffer

S STATIC

2 FIXTURE WIDTH

VA LENS FRAME: FS=flat steel frame RA=Regressed aluminum frame FA=flat aluminum frame

3 LAMP QUANTITY

34-T12 LAMP/FIXTURE LENGTH: 34-T12 (Nominal 48")

120 or 277 VOLTAGE: 120 or 277

LE BALLAST TYPE: LE 1 & 2 Lamp Mag. T12 1 & 2 Lamp Elec. T8 1-3 Lamp Elec. T8 L0L, T8 Dimming *Instant Start Standard

GLR OPTIONS: Add appropriate suffix to catalog no., i.e. (GLR)

OPTIONS & ACCESSORIES

SPECIAL LENSES: Substitute VB for VA (standard) = .125" nominal pattern 12 with 7.8 oz. average weight per square foot. Substitute VI for VA (standard) = .125" nominal pattern 12 with 8.8 oz. average weight per square foot.

PLASTER FRAME: Catalog Number **PF24**.

CONTINUOUS ROW INSTALLATION: For F type fixtures, half width flanges are required between fixtures. Order Catalog Number: **S2FCRIM** (each joint).

RADIO INTERFERENCE FILTER 120 or 277 volt, 50 or 60 Hz. One per fixture is standard.

SUFFIX: RF

FUSING: Internal fast-blow fusing. SUFFIX: **GLR**. Internal slow-blow fusing. SUFFIX: **GMF**.

ELECTRICAL/WIRING OPTIONS: Consult factory.

DRYWALL KIT: Order Catalog Number: **FK92X4**. Request Folio OA30-10.

CHICAGO PLENUM: SUFFIX: **CP**.

SPECIFICATIONS

PERFORMANCE: In an installation of 3 lamp 32W luminaires in a room cavity ratio of 1, reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .84. To prevent glare the VCP shall be not less than 50 either lengthwise or crosswise (at 1000c level), and the average brightness at 65" shall not exceed 2299 candelas per square meter. To control veiling reflections, luminaire output in the 30°-90° zone shall not be less than 68.8%.

SPECIFICATIONS (continued)

MATERIALS: Chassis parts are die-formed code gauge cold rolled steel. Housing with side rails hemmed over and housing ends turned-in for safe handling.

FINISH: Chassis exterior—black baked polyester enamel. Cavity—white baked polyester enamel minimum 85% reflectance. Phosphate undercoating.

LENSES: VA (standard) extruded virgin acrylic, 3/16" square based female cones, running 45° to the panel edge, .05" nominal thickness (similar to pattern 12). VB (optional). 125" nominal pattern 12 with 7.8 oz. average weight per square foot. VI (optional). 125" nominal pattern 12 with 8.8 oz. average weight per square foot.

ELECTRICAL: Thermally protected class "P" ballast C.B.M. approved, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.

LABELS: I.B.E.W./UL and ULc Listed.

Job Information Type: **LTG-3**

Lightolier a Genlyte Thomas Company www.lightolier.com
 Technical Information: (978) 657-7600 • Fax (978) 658-0595
 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
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 A0902 **Section 1A/Folio E60-32**

LIGHTOLIER®

Product: Recessed Compact Fluorescent Downlight - 6" Aperture Horizontal Lamp
Manufacturer: Lightolier
Series: Calculite
Model: 8031CCZW (Wheat Matte); 8031CCDW (Clear Matte)
Number of Lamps: 1 Triple Tube
Wattage: 32
Ballast Type: Refer to MEP Best Practices
Lamp Size: 32W
Lamp Color: Refer to MEP Best Practices
Reflector: Clear Matte, Wheat Matte

Remarks:

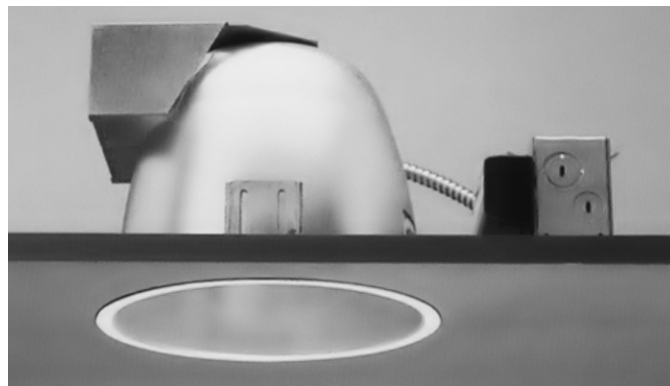
1. To be used in patient and public areas.
2. Electrical devices (switches & plugs) refer to MEP Best Practices.

Location: See Part 3 - Interior Room Finish Guide

Alternate:

Gotham #AF-2/26DTT-6AR-LD-MVOLT-TRW (Clear Matte)
Gotham #AF-2/26DTT-6WTR-LD-MVOLT-TRW (Wheat Matte)
Omega #S62H26QPLU-T62HQPLCSS (Clear Matte)
Omega #S62H26QPLU-T62HQPLWT-SS (Wheat Matte)

Sample:

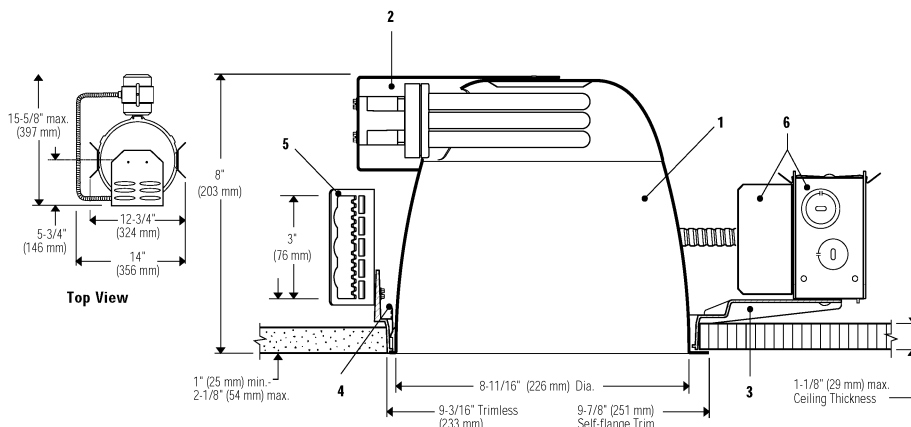




Calculite® Compact Fluorescent Open Downlight **8038**

Page 1 of 2

8" Aperture (2) Triple Tube Horizontal Lamp



Ceiling Cutout: 9 1/4" (235 mm) Dia.

Reflector Trim	Frame-In Kit	Lamp
8038 CLW Clear Iridescence Free, White Flange	8242HU Electronic 120V - 277V	(2) 26W/32W/42W TripleTube
8038 CLP Clear Iridescence Free, Polished Flange	8242HCU PowerSpec® Dimming 120V - 277V	4-Pin (Amalgam)
8038 CL Clear Iridescence Free, Molded Trim Ring	Remodeler Frame-In Kit	Lamp
8038 Add suffix. See options for other finishes.	8242HURM Electronic 120V - 277V	Same as 8242HU

Features

- Reflector:** 16 ga. Specular Alzak® aluminum, 55° visual cutoff to lamp and lamp image, medium distribution. Iridescence Free finish. Self-flanged or flangeless with molded white trim ring (field paintable).
- Socket Bracket:** Die-formed steel, vented. Attaches to reflector for correct optical alignment.
- Mounting Frame:** Die-cast aluminum for dry or plaster ceilings.
- Retaining Springs:** Precision-tooled steel friction springs secure reflector to mounting frame for quick, tool-less installation.
- Mounting Brackets:** 16 ga. steel. Adjust from inside of fixture. Use 3/4" or 1 1/2" lathing channel, 1/2" EMT, or optional mounting bars.
- Ballast/J-Box:** Outboard mounted to reduce heat transfer and maintain lamp efficacy and life. Service from below without tools.

Electrical

Note: For ballast electrical data and latest lamp/ballast compatibility refer to "Ballast" specification sheet for complete electrical data.

8242HU, 8242HCU: UL listed for through branch circuit wiring with max of (8) No. 12 AWG, 90°C supply conductors.

8242HURM: UL listed for No. 12 AWG, 90°C supply conductors.

Options and Accessories

Comfort Clear® Finishes¹		Other Finishes	
Clear	CCL	White	WH
Diffuse	CCD		
Champagne Bronze	CCZ		
Pewter	CPW		

¹Specify desired flange

W White, P Polished

Blank - Molded Ring

Options and Accessories (continued)

Emergency	Add suffix EM*
Chicago Plenum	Add suffix LC
Emergency Ltq. Kit	FA EM3E*
	FA EM4E*
Fuse (Slow Blow)	Add suffix F

*See Spec. Sheets: FAEM

Mounting Bars & Accessories; see Specification Sheet MBA.
Sloped Ceiling Adapters; see Specification Sheet SCA

Labels

UL listed for damp locations, I.B.E.W.

Alzak® is a registered trademark of ALCOA.

US Patent Pending

Job Information	Type:
	LTG-4
Job Name: MEMORIAL HERMANN STANDARDS	
Cat. No.:	
Lamp(s):	
Notes:	

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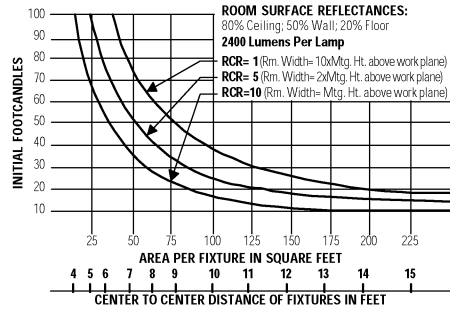
Calculite® Compact Fluorescent Open Downlight **8038**

8" Aperture (2) Triple Tube Horizontal Lamp

Page 2 of 2

32W

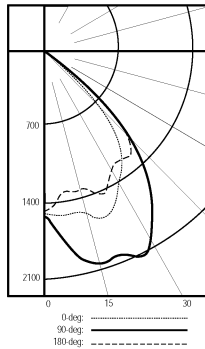
Quick Calculator



This quick calculator chart determines the number and spacing of 2 ft. - 32 W PL-T units with clear reflector: for any level of illumination. For 26W lamps, multiply footcandles by 0.8.

Spacing Ratio: Along = 1.4 Across = 1.6

CERTIFIED TEST REPORT NO. ITL44462
INDEPENDENT TESTING LABORATORIES, INC.
RECESSED CALCULITE DOWNLIGHT
8-11/16" APERTURE SPECULAR CLEAR REFLECTOR
TWO PHILIPS 32-WATT 32W/35/4P TRIPLE U-TUBE, COMPACT FLUORESCENTS,
HORIZONTAL POSITION. LUMEN RATING =2400 LMS



DATE: Dec 4, 1995

TESTED ACCORDING TO IES PROCEDURES. TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST LUMINOUS OPENING OF LUMINAIRE.

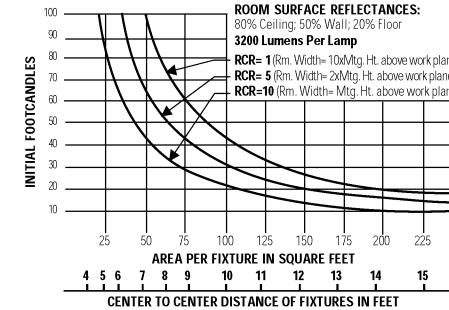
Coefficients of Utilization

ROOM CAVITY RATIO	% EFFECTIVE CEILING CAVITY REFLECTANCE															
	80				70				50				10			
	50	30	10	0	50	30	10	0	50	30	10	0	50	30	10	0
1	.79	.77	.75	.78	.76	.74	.75	.73	.72	.72	.71	.70	.69	.68	.68	.66
2	.72	.69	.66	.71	.68	.65	.69	.66	.64	.66	.64	.62	.64	.62	.61	.60
3	.66	.62	.58	.65	.61	.58	.63	.59	.57	.61	.58	.56	.59	.57	.55	.54
4	.60	.55	.52	.59	.55	.51	.58	.54	.51	.56	.53	.50	.55	.52	.49	.48
5	.55	.50	.46	.54	.49	.46	.53	.49	.45	.51	.48	.45	.50	.47	.44	.43
6	.50	.45	.41	.50	.45	.41	.48	.44	.41	.47	.43	.40	.46	.43	.40	.39
7	.46	.41	.37	.46	.41	.37	.45	.40	.37	.44	.40	.37	.43	.39	.36	.35
8	.42	.37	.34	.42	.37	.34	.41	.37	.33	.40	.36	.33	.40	.36	.33	.32
9	.39	.34	.31	.39	.34	.31	.38	.34	.30	.37	.33	.30	.37	.33	.30	.29
10	.36	.31	.28	.36	.31	.28	.35	.31	.28	.34	.30	.28	.34	.30	.28	.26

20% FLOOR CAVITY REFLECTANCE
For 26W lamps, multiply C.U.'s by 1.1.

42W

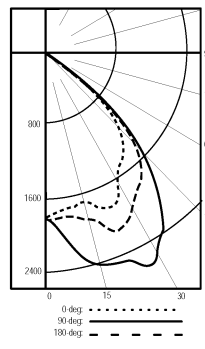
Quick Calculator



This quick calculator chart determines the number and spacing of 2 ft. - 42 Watt PL-T units with clear reflector: for any level of illumination.

Spacing Ratio: Along = 1.4 Across = 1.7

CERTIFIED TEST REPORT NO. ITL44463
INDEPENDENT TESTING LABORATORIES, INC.
RECESSED CALCULITE DOWNLIGHT 8038CLIF/8242HE120
8 7/8" APERTURE SPECULAR CLEAR REFLECTOR
TWO PHILIPS 42-WATT PL-T 42W/4P TRIPLE U-TUBE, COMPACT FLUORESCENT
HORIZONTAL POSITION. LUMEN RATING =3200 LMS



DATE: Jan 3, 1996

PREPARED FOR:
LIGHTOLIER, Fall River, MA

TESTED ACCORDING TO IES PROCEDURES. TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST LUMINOUS OPENING OF LUMINAIRE.

Coefficients of Utilization

ROOM CAVITY RATIO	% EFFECTIVE CEILING CAVITY REFLECTANCE															
	80				70				50				10			
	50	30	10	0	50	30	10	0	50	30	10	0	50	30	10	0
1	.74	.72	.70	.72	.70	.69	.69	.68	.67	.67	.66	.65	.65	.64	.63	.62
2	.67	.64	.61	.66	.63	.61	.64	.61	.59	.62	.60	.58	.60	.58	.57	.56
3	.61	.57	.54	.60	.57	.54	.58	.55	.53	.57	.54	.52	.55	.53	.51	.50
4	.56	.51	.48	.55	.51	.48	.54	.50	.47	.52	.49	.46	.51	.48	.46	.45
5	.51	.46	.43	.50	.46	.43	.49	.45	.42	.48	.44	.42	.47	.44	.41	.40
6	.47	.42	.38	.46	.42	.38	.45	.41	.38	.44	.40	.38	.43	.40	.37	.36
7	.43	.41	.37	.46	.41	.37	.45	.40	.37	.44	.40	.37	.43	.39	.36	.35
8	.39	.35	.31	.39	.34	.31	.38	.34	.31	.37	.34	.31	.37	.33	.31	.30
9	.36	.32	.28	.36	.31	.28	.35	.31	.28	.35	.31	.28	.34	.31	.28	.27
10	.34	.29	.26	.33	.29	.26	.33	.29	.26	.32	.28	.26	.32	.28	.26	.25

20% FLOOR CAVITY REFLECTANCE

Job Information Type: **LTG-4**

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LIGHTOLIER®

Product: Recessed Compact Fluorescent Wall Washer - 6" Aperture, Horizontal Lamp
Manufacturer: Lightolier
Series: Calculite
Model: 8081CCZW (Wheat Matte); 8081CCDW (Clear Matte)
Number of Lamps: 1 Triple Tube
Wattage: 32
Ballast Type: Refer to MEP Best Practices
Lamp Size: 32W
Lamp Color: Refer to MEP Best Practices
Reflector: Wheat Matte or Clear Matte

Remarks:

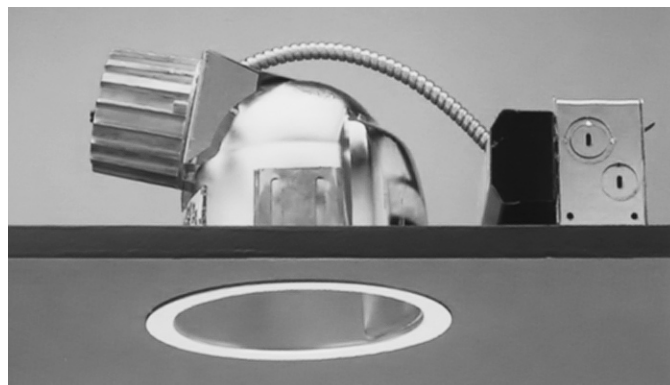
1. To be used in public and upgrade areas.
2. Electrical devices (switches & plugs) refer to MEP Best Practices

Location: See Part 3 - Interior Room Finish Guide

Alternate 6" Aperture:

Omega Lighting S62H26QPLU-T62HQPLWW-CSS (Clear Matte)
Omega Lighting S62H26QPLU-T62HQPLWW-WT-SS (Wheat Matte)
Gotham AFW-2/26DTT-6AR-MVOLT-TRW (Clear Matte)
Gotham AFW-2/26DTT-6WTR-MVOLT-TRW (Wheat Matte)

Sample:

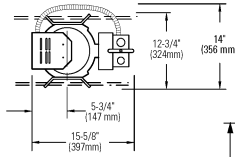




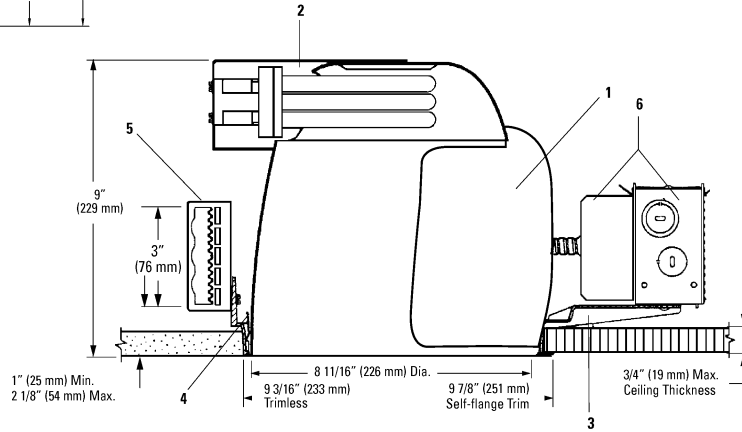
Calculite® Compact Fluorescent Open Wall Washer **8089**

Page 1 of 3

8" Aperture (2) Triple Tube Horizontal Lamp



Top View



Ceiling Cutout: 9 1/4" (203 mm) Dia.

Reflector Trim	Frame-In Kit	Lamp
8089CLW Clear Iridescence Free, White Flange	8242HU Electronic 120V - 277V	(2) 26W/32W/42W Triple Tube
8089CLP Clear Iridescence Free, Polished Flange	8242HCU PowerSpec® Dimming 120V - 277V	4-Pin (Amalgam)
8089CL Clear Iridescence Free, Molded Trim Ring		
8089 <input type="checkbox"/> Add suffix. See options for other finishes.		

Features

- Downlight Wall Washer Reflector:** 16 ga. Specular Alzak® aluminum, 50° lamp cutoff to lamp and lamp image. Provides vertical surface wall wash and downlighting. Iridescence Free finish. Self-flanged or flangeless with molded white trim ring (field paintable).
- Socket Bracket:** Die-formed steel, vented. Attaches to reflector for correct optical alignment.
- Mounting Frame:** Die-cast aluminum for dry or plaster ceilings.
- Retaining Springs:** Precision-tooled steel friction springs secure reflector to mounting frame for quick, tool-less installation.
- Mounting Brackets:** 16 ga. steel. Adjust from inside of fixture. Use 3/4" or 1 1/2" lathing channel, 1/2" EMT, or optional mounting bars.
- Ballast/J-Box:** Outboard-mounted to reduce heat transfer and maintain lamp efficacy and life. Service from below without tools.

Electrical

Note: For ballast electrical data and latest lamp/ballast compatibility refer to "Ballast" specification sheet for complete electrical data.

UL listed for through branch circuit wiring with max. of (8) No. 12 AWG, 90°C supply conductors.

Options and Accessories

Comfort Clear™ Finishes ¹		Other Finishes	
Clear	CCL	White	WH
Diffuse	CCD		
Champagne Bronze	CCZ		
Pewter	CPW		

¹Specify desired flange
W White, **P** Polished
 Blank - Molded Ring

Options and Accessories (continued)

- | | |
|--------------------|-----------------------|
| Emergency | Add suffix EM* |
| Chicago Plenum | Add suffix LC |
| Emergency Ltg. Kit | FA EM3E* |
| | FA EM4E* |
| Fuse (Slow Blow) | Add suffix F |
- *See Spec. Sheets: FAEM

Mounting Bars & Accessories; see Specification Sheet MBA.
 Stopped Ceiling Adapters; see Specification Sheet SCA

Labels

UL listed for damp locations, I.B.E.W.

Alzak® is a registered trademark of ALCOA.

US Patent Pending.

Job Information	Type:
	LTG-5
Job Name: MEMORIAL HERMANN STANDARDS	
Cat. No.:	
Lamp(s):	
Notes:	

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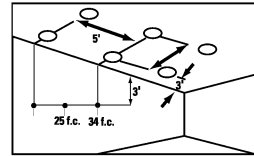


Calculite® Compact Fluorescent Open Wall Washer **8089**

Page 2 of 3

8" Aperture (2) Triple Tube Horizontal Lamp

Footcandles On Wall From Multiple Units – 2-32 Watt Triple Tube Compact Fluorescent Lamps



Units 2 Feet From Wall

DISTANCE FROM CEILING, FT.	2'			3'			4'		
	1	2	3	1	2	3	1	2	3
1	87	88	87	69	44	69	66	23	66
2	105	116	105	77	69	77	70	36	70
3	87	86	87	49	67	49	34	55	34
4	61	60	61	41	40	41	27	36	27
5	45	46	45	30	32	31	23	24	23
6	34	36	34	25	25	25	18	20	18
7	26	28	26	20	21	20	15	17	15
8	21	21	21	17	17	17	13	14	13
9	17	17	17	14	15	14	11	12	11
10	14	14	14	12	13	12	10	10	10

Lighting Data

Example: With 2 light 32W TTT lamp units, located 3' from wall and 5' on center, (matching downlights 5' on center), the illumination on the wall 3' down from the ceiling is 34 f.c. beneath and 25 f.c. between fixtures.

Units 3 Feet From Wall

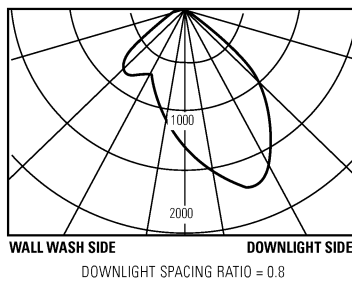
DISTANCE FROM CEILING, FT.	3'			4'			5'			6'		
	1	2	3	1	2	3	1	2	3	1	2	3
1	27	26	27	23	18	23	21	12	21	21	8	21
2	47	43	47	39	30	39	36	20	36	34	13	34
3	47	52	47	38	38	38	34	25	34	32	17	32
4	45	45	45	29	38	29	20	33	20	20	26	20
5	35	35	35	26	27	26	18	25	18	13	23	13
6	28	27	28	21	21	21	17	18	17	13	17	13
7	23	23	23	18	18	18	14	14	14	12	13	12
8	19	20	19	15	15	15	12	13	12	10	11	10
9	17	17	17	13	14	13	11	12	11	9	10	9
10	14	15	14	12	12	12	10	10	10	8	9	8
11	12	13	12	11	11	11	9	9	9	7	8	7
12	11	11	11	10	10	10	8	8	8	7	7	7

Units 4 Feet From Wall

DISTANCE FROM CEILING, FT.	4'			5'			6'			7'			8'		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
1	11	11	11	10	8	10	9	6	9	9	4	9	9	3	9
2	22	21	23	19	16	19	18	12	18	17	9	17	17	6	17
3	28	25	28	23	20	23	21	15	21	20	11	20	20	9	20
4	27	30	27	23	24	23	20	18	20	19	13	19	19	18	19
5	27	28	27	19	25	19	15	21	15	14	18	14	13	14	13
6	23	23	23	18	19	18	13	18	13	10	17	10	9	15	9
7	19	19	19	16	16	16	13	14	13	10	13	10	8	12	8
8	17	16	17	13	14	13	12	11	12	10	10	10	8	10	8
9	15	14	15	12	12	12	10	10	10	9	9	9	8	8	8
10	13	13	13	11	11	11	9	9	9	8	8	8	7	7	7
11	12	12	12	10	10	10	8	8	8	7	7	7	6	6	6
12	11	11	11	9	9	9	8	8	8	7	7	7	6	6	6
13	10	10	10	8	8	8	7	7	7	6	6	6	5	5	5
14	9	9	9	8	8	8	7	7	7	6	6	6	5	5	5

Footcandle values are averaged and rounded off and are based on a minimum of five units. For 26W lamps, multiply footcandles by 0.75.

Candle Power Distribution



% EFFECTIVE CEILING CAVITY REFLECTANCE

ROOM CAVITY RATIO	% WALL REFLECTANCE																	
	80			70			50			30			10			0		
	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
1	64	62	61	63	61	60	60	59	58	58	57	56	56	55	54	53	53	53
2	59	56	53	57	55	53	55	53	52	54	52	51	52	51	50	49	49	49
3	53	50	47	53	50	47	51	49	48	50	49	46	49	47	45	44	44	44
4	49	46	43	49	45	42	47	44	42	46	43	41	45	43	41	40	40	40
5	45	41	38	45	41	38	44	40	38	43	40	37	42	39	37	35	35	35
6	42	37	35	41	37	34	40	37	34	39	36	34	36	36	34	33	33	33
7	38	34	31	38	34	31	37	33	31	36	33	30	35	32	30	29	29	29
8	35	31	28	34	31	28	34	31	28	33	30	27	32	29	27	26	26	26
9	32	28	25	31	28	25	31	27	25	30	27	24	30	27	24	23	23	23
10	29	25	22	29	25	22	28	24	22	28	24	22	27	24	22	21	21	21

20% FLOOR CAVITY REFLECTANCE

Job Information **Type:** LTG-5

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LIGHTOLIER®



Calculite® Compact Fluorescent Open Wall Washer **8089**

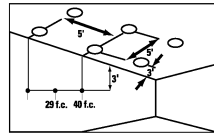
Page 3 of 3

8" Aperture (2) Triple Tube Horizontal Lamp

Footcandles On Wall From Multiple Units – 2-42 Watt Triple Tube Compact Fluorescent Lamps

Units 2 Feet From Wall

	2'			3'			4'		
1	103	95	103	82	52	82	77	27	77
2	124	134	124	92	80	92	84	42	84
3	112	110	112	66	83	66	48	66	48
4	83	84	83	57	56	57	39	46	39
5	63	65	63	42	46	42	33	33	33
6	48	50	48	34	35	34	25	28	25
7	36	38	37	27	28	27	20	22	20
8	28	29	28	22	23	22	17	18	17
9	22	23	22	18	19	18	15	15	15
10	18	18	18	15	16	16	13	13	13



Lighting Data

Example: With 2 light 42W TTT lamp units, located 3' from wall and 5' on center, (matching downlights 5' on center), the illumination on the wall 3' down from the ceiling is 40 f.c. beneath and 29 f.c. between fixtures.

Units 3 Feet From Wall

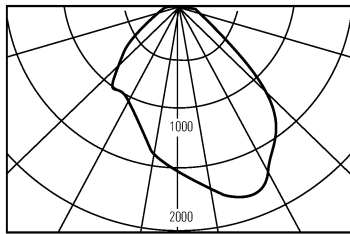
	3'			4'			5'			6'		
1	32	31	32	27	21	27	25	14	25	24	9	24
2	55	51	55	46	35	46	42	24	42	41	16	41
3	56	61	56	45	43	45	40	28	40	38	19	38
4	55	55	55	37	46	37	29	39	29	27	30	27
5	46	46	46	35	35	35	25	31	25	19	28	19
6	38	38	38	29	30	29	24	24	24	18	21	18
7	32	33	32	24	26	24	20	20	20	17	17	17
8	27	28	27	21	22	21	17	18	17	14	15	14
9	23	24	23	18	19	18	15	16	15	12	14	12
10	20	20	20	16	17	16	13	14	13	11	12	11
11	17	17	17	14	15	14	12	12	12	10	11	10
12	15	15	15	13	13	13	11	11	11	9	10	9

Units 4 Feet From Wall

	4'			5'			6'			7'			8'		
1	13	13	13	12	10	12	11	7	11	11	6	11	10	4	10
2	27	25	27	23	10	23	21	14	21	20	10	20	20	8	20
3	33	31	33	20	23	20	25	10	25	24	13	24	24	10	24
4	32	35	32	27	27	27	24	21	24	23	15	23	22	11	22
5	33	34	33	24	29	24	20	25	20	10	21	10	17	16	17
6	29	29	29	23	24	23	18	22	18	14	20	14	13	18	13
7	25	26	25	21	21	21	17	18	17	14	17	14	11	15	11
8	22	23	22	18	19	18	16	15	16	13	14	13	11	13	11
9	20	20	20	16	17	16	14	14	14	12	12	12	11	11	11
10	18	18	18	15	15	15	12	12	12	11	11	11	10	10	10
11	16	17	16	14	14	14	11	12	11	10	11	10	9	9	9
12	14	15	14	12	13	12	10	11	10	9	10	9	8	8	8
13	13	13	13	11	12	11	10	10	10	8	9	8	7	7	7
14	12	12	12	10	11	11	9	9	9	8	8	8	7	7	7

Footcandle values are averaged and rounded off and are based on a minimum of five units.

CANDLE POWER DISTRIBUTION



WALL WASH SIDE DOWNLIGHT SIDE
DOWNLIGHT SPACING RATIO = 1.0

% EFFECTIVE CEILING CAVITY REFLECTANCE

ROOM CAVITY RATIO	% WALL REFLECTANCE																	
	80			70			50			30			10			0		
	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
1	60	58	57	59	57	56	56	55	54	54	53	52	52	51	52	50		
2	55	52	50	54	51	49	52	50	48	50	49	47	49	48	46	45		
3	50	47	44	49	46	44	48	45	43	47	45	43	45	44	42	40		
4	46	43	40	45	42	40	44	42	39	43	41	39	42	40	38	37		
5	43	39	36	42	38	36	41	38	34	40	37	35	39	37	36	34		
6	39	35	33	39	35	32	38	35	32	37	34	32	36	34	32	31		
7	36	32	29	35	32	29	34	31	29	34	31	29	33	30	29	29		
8	33	29	26	32	29	26	32	28	26	31	28	26	30	28	26	25		
9	30	26	23	30	26	23	29	26	23	28	25	23	28	23	23	22		
10	27	23	21	29	23	21	26	23	21	26	23	21	26	23	21	20		

20% FLOOR CAVITY REFLECTANCE

Job Information Type: **LTG-5**

Lightolier a Genlyte Thomas Company www.lightolier.com
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LIGHTOLIER®

Product: 2x4 Recessed Multi-Function/Patient Fluorescent
Manufacturer: Lightolier
Series: MD*4
Model: MD4GPSVA2SB4SB
Lamps: 1-7WPL, 2-40B1AX, 3-40B1AX
Ballast Type: Refer to MEP Best Practices
Lamp Size: T5
Lamp Color: Refer to MEP Best Practices

Remarks:

1. To be used in patient rooms, PACU, Pre-Op, Recovery, Exam rooms.
2. Electrical devices (switches & plugs) refer to MEP Best Practices.

Location: See Part 3 - Interior Room Finish Guide

Alternate: Vista 5224-G-BXEL-277
Daybrite #2M6CF40W-277-EB-PAF

Sample:



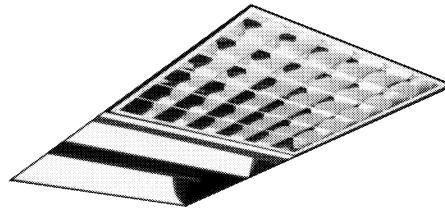
MD*4™ **MD4GPSVA2BX4BX**

Page 1 of 4

2' X 4' RECESSED OR SURFACE MULTI-FUNCTION PATIENT LIGHTING

Features

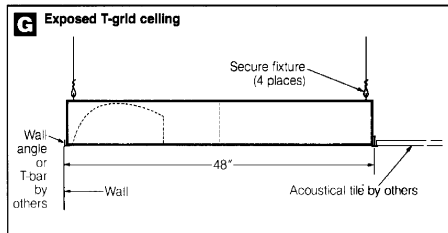
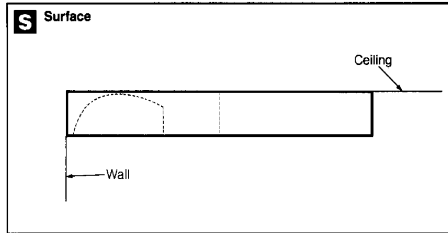
- Four lighting functions with integral ambient, reading and optional nurses night light.
- Precise light control for glare free patient environment.
- Installs as a one-piece unit.
- Recessed or surface mounted to ceiling against wall directly behind patient which eliminates damage to fixture from hospital equipment attached to patients bed.
- 6 7/8" deep.
- All lamps are enclosed.
- All Biax Type lamps are accessible for relamping without tools
- Optional low voltage electronic sequential switch mounted in fixture for ambient and reading light controlled with pillow speaker (optional by others).
- Meets NYC Code requirements. Model to meet Chicago Plenum requirements is available.



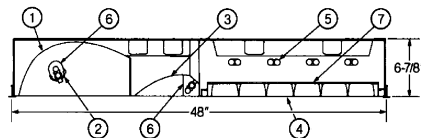
MD*4 with specular 36 cell aluminum louver.

Patent Numbers 5,038,254, 5,086,375 5,160,193

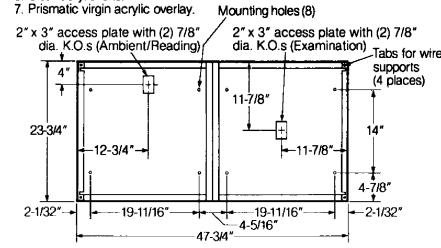
MOUNTING METHODS



DIMENSIONS



1. Reading light with low iridescence anodized specular aluminum reflector.
2. Extruded aluminum lamp baffle.
3. Ambient light with low iridescence anodized specular aluminum reflector.
4. Examination light with specular 36 cell aluminum louver with virgin acrylic overlay (illustrated).
5. Biax type lamps (6).
6. Clear acrylic lens.
7. Prismatic virgin acrylic overlay.



LIGHTOLIER®

Job Information	Type: LTG-6
Job Name: MEMORIAL HERMANN STANDARDS	
Cat. No.:	
Lamp(s):	
Volts/Ballast:	

Lightolier a Genlyte Thomas Company www.lightolier.com
 Technical Information: (978) 657-7600 • Fax (978) 658-0595
 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
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 A0902 **Section 8/Folio R40-11 Rev. A**

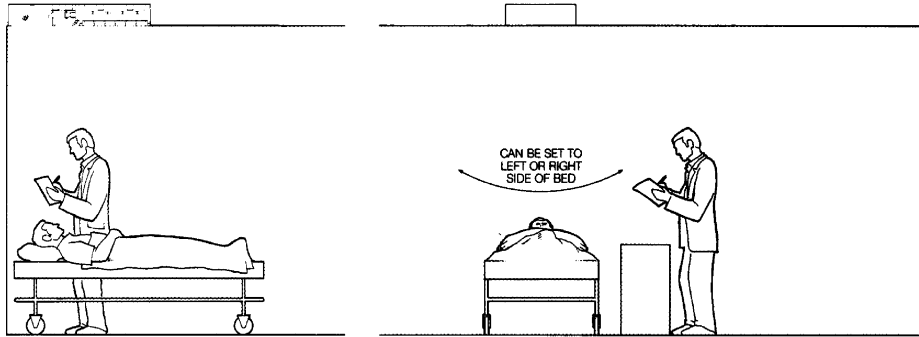
MD*4™ **MD4GPSVA2BX4BX**

Page 3 of 4

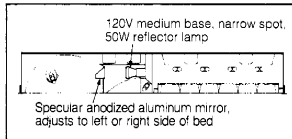
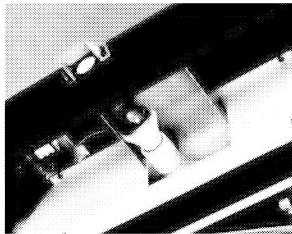
2' X 4' RECESSED OR SURFACE MULTI-FUNCTION PATIENT LIGHTING

NURSES NIGHT LIGHT (optional)

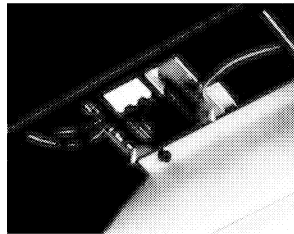
Lights night stand between beds.
Field adjustable for either right or left side of patients bed.
No glare to any patient.
Wired for independent switching.



OPTIONS

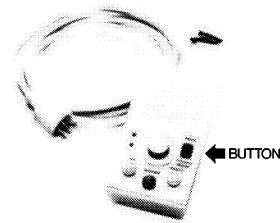


Nurses night light



Sequential switch (SW)

MD*4's optional low voltage (1-3 volts) sequential switch mounted in the fixture is listed in compliance with UL 544 for medical and dental equipment. Two red wires coming from the fixture can be wired to a wall receptacle (by others) for use with that manufacturers pillow speaker. The pillow speaker is used to control the television, call the nurse and control the lighting. To control the lighting it should be specified to have a normally open contact switch.
Pressing this switch on the pillow speaker the first time, turns the ambient light on; pressed a second time, turns the reading light on and the ambient light off; pressed a third time, turns both the ambient and reading lights on; pressed a fourth time turns both lights off. Pressing the button again repeats the cycle.
Should the patients bed be rolled away from the wall, the pillow speaker will simply pull free from the wall receptacle avoiding any damage.



Pillow speaker (by others)

Job Information **Type:** LTG-6

Lightolier a Genlyte Thomas Company www.lightolier.com
Technical Information: (978) 657-7600 • Fax (978) 658-0595
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A0902 **Section 8/Folio R40-11 Rev. A**

LIGHTOLIER®



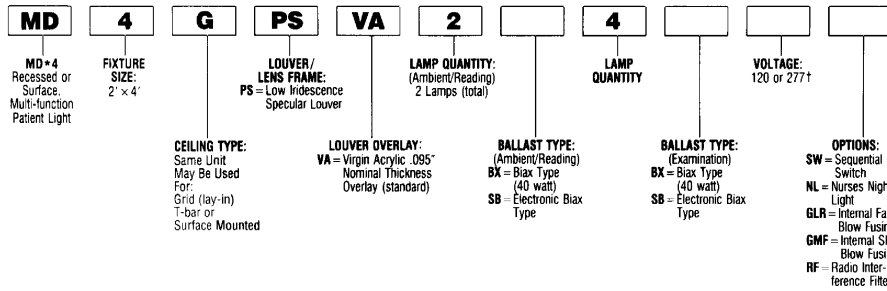
MD*4™ **MD4GPSVA2BX4BX**

Page 4 of 4

2' X 4' RECESSED OR SURFACE MULTI-FUNCTION PATIENT LIGHTING

ORDERING INFORMATION

Explanation of Catalog Number Example: MD4GPSVA2BX4BX120SW



NOTE: For Chicago Plenum add SUFFIX: CP.

†Consult factory for 277 volt.

OPTIONS/ACCESSORIES

ACCESS PLATES: Top wiring access plate is shipped with fixture as standard. When access dates are required in advance for wiring convenience, specify separately. Catalog Number **ACP**.

DRYWALL OR PLASTER CEILING: Order Catalog Number **FK92X4** (See FOLIO OA30-10)

ELECTRONIC (Low Voltage) SEQUENTIAL SWITCH: Switch factory mounted in fixture for ambient and reading light convergence (controlled by pillow switch, by others) SUFFIX: **SW**

NURSES NIGHT LIGHT: 120 volt medium base, narrow spot, 50W reflector lamp with specular anodized mirror, field adjustable to right or left side of patients bed SUFFIX **NL**

FUSING: Internal fast-blow fusing SUFFIX **GLR**
Internal slow-blow fusing SUFFIX **GMF**

RADIO INTERFERENCE FILTER: 120 or 277 volt, 50 or 60 Hz One per fixture standard SUFFIX **RF**

ELECTRIC WIRING OPTIONS: Consult factory

SPECIFICATIONS

MATERIALS: Chassis parts are die-formed 20 gauge steel.

Louvers: (Examination Light): Pre-anodized aluminum Coilzak® or equal.

READING LIGHT: Extruded aluminum lamp baffle with clear extruded acrylic lens shields lamp and is removable without tools.

AMBIENT LIGHT: Clear acrylic lens that rotates open for easy relamping.

REFLECTORS: (Ambient and Reading Lights): Low Iridescence specular pre-anodized aluminum is standard.

FINISH: Cavity (Examination Light)—White baked acrylic enamel, minimum reflectance 86%. Phosphate undercoating. Chassis exterior—White baked acrylic enamel.

Louvers: (Examination Light): PS=low iridescence specular pre-anodized aluminum. Comes with a virgin acrylic overlay to enclose all lamps. VA=.095" nominal thickness prismatic virgin acrylic overlay.

ELECTRICAL: Rapid start HPF, BX (Biax Type) thermally protected class "P" ballast C.B.M. certified by E.T.L. If K.O. is within 3" of ballast, use wire suitable for at least 90°

LABELS: I.B.E.W Listed by Underwriters Laboratories

LIGHTOLIER®

Job Information **Type:** LTG-6

Lightolier a Genlyte Thomas Company www.lightolier.com
 Technical Information: (978) 657-7600 • Fax (978) 658-0595
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 A0902 **Section 8/Folio R40-11 Rev. A**

Product: Overbed Light
Manufacturer: Vista Lighting
Series: Vistaform
Model: 8536-4LVC-T5EL-UNV
Ballast Type: Refer to MEP Best Practices
Lamp Size: T5
Fixture Color: Mission White

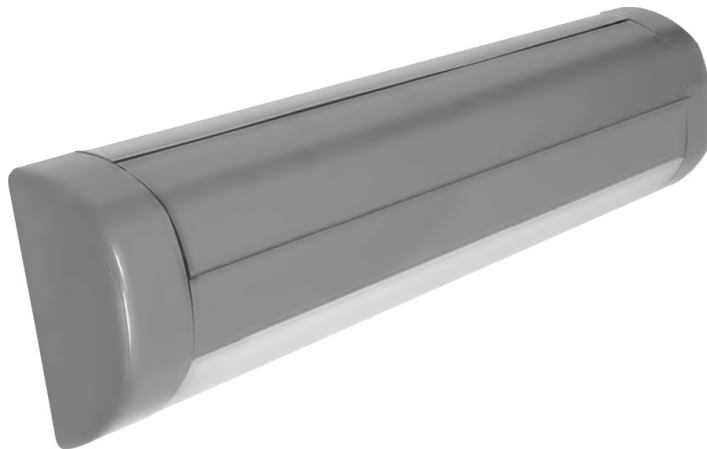
Remarks:

1. To be used in patient rooms, PACU, Post-Op, Recovery only.
2. Electrical devices (switches & plugs) refer to MEP Best Practices

Location: See Part 3 - Interior Room Finish Guide

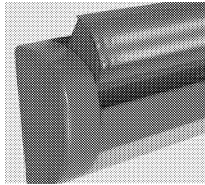
Alternate: Healthcare Lighting #HPW348-120V-T5EL-22-SX--FW

Sample:

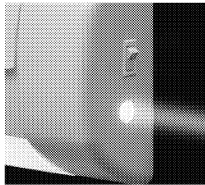




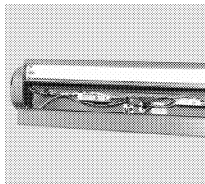
VISTAFORM
8500 Series Overbed Light



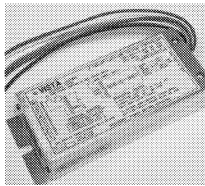
Upper lamp housing rotates up for exam lighting.



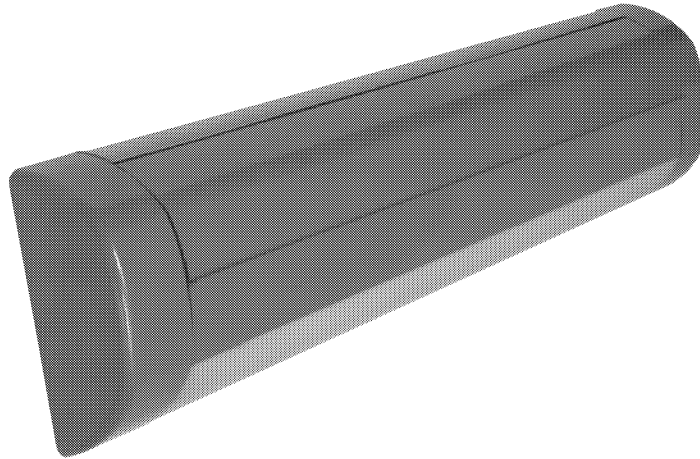
Optional LED nightlight with rocker switch available. Specify left or right location.



To access the ballast tray simply lower the bottom lamp housing.



Optional Low Voltage Controller meets NEC low voltage switching requirements for multiple patient and staff control of lighting through any number of momentary contact switches in the patient room.



Specifications

Construction

- Fixture housing is made of extruded aluminum.
- End caps are heavy duty, die-cast aluminum.
- The top lamp housing rotates upward, directing light where it's needed for patient examination.
- Fixture protrudes less than 4" from the wall.

Lenses

- 50% prismatic acrylic and 50% polycarbonate to prevent yellowing.

Lamps

- Four T-5 lamps included.
- Two ballasts for separate control of uplight and downlight.

Ballast Tray

- The ballast tray is easily accessible by lowering the bottom lamp housing.

Switching

- 4-position pull chain standard, specify left or right location.
- Optional solid state Low-Voltage Controller (LVC).*

Finish

- Mission White baked enamel.
- Custom colors available.

Antimicrobial

- AgION™ antimicrobial protection
- Protects against bacteria colonization
- Non-organic silver technology

Warranty

- 15 Year standard Vista warranty

* Optional solid-state Low-Voltage Controller to accommodate switching through nurse call handset by others, or a pillow switch by VISTA.



Specifier's Reference

Project	
Type	Model No.
Comments	



VISTAFORM

8500 Series Overbed Light

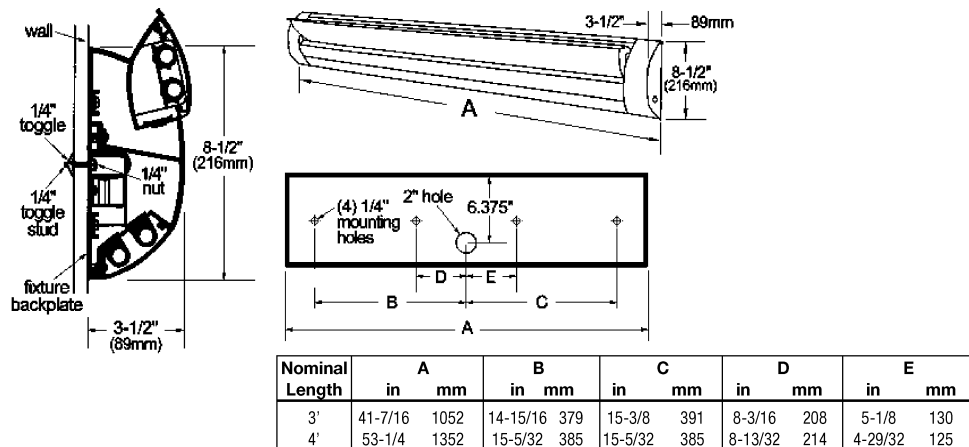
Ordering Information

Series	Lamp Configuration	Switching	Lamp & Ballast	Voltage	Options	Color
Ag8548 Nominal 4' fixture length Ag8536 Nominal 3' fixture length	-4	Specify: L (Left) R (Right) -2 (L or R) On/Off pull chain -3 (L or R) 3-way pull chain (Not available with 277V) -4 (L or R) 4-position pull chain -Z No switch -LVC Solid state Low-Voltage Controller (LVC) for patient control of either or both circuits through remote momentary contact switch or nurse call handset by others	-T5EL	-UNV -UNV	-NLRR L.E.D. nightlight w/ rocker switch on right endcap -NLRL L.E.D. nightlight w/rocker switch on left endcap	-X Custom specified color -MW Mission White

NOTE: Nightlight and switch must be on opposite sides!

Lamps Included!
True to Vista's reputation for ease of installation and maintenance, all fluorescent lamps are included.

Mounting and Dimensional Data



1805 Pittsburgh Avenue • Erie, PA 16502-1916 • Ph: 814-454-2266 • Fax: 814-454-3319
 www.vistalighting.com • ©2005 Vista Lighting • 05/05 6M A&A

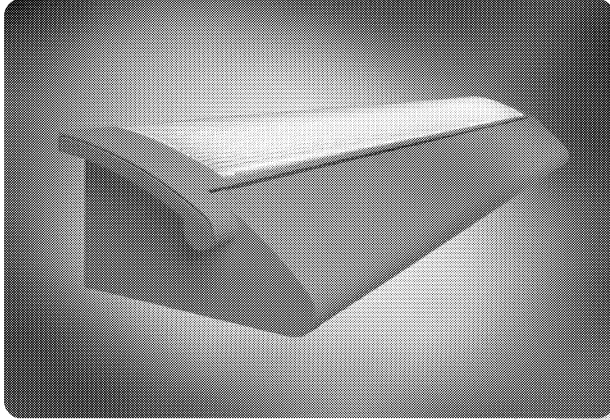
Product:	Overbed Light
Manufacturer:	Focal Point
Series:	APL (adjustable patient light)
Model:	FAPL22T5 or FAPL22T8 (see Remarks: #3)
Ballast Type:	Refer to MEP Best Practices
Lamp Size:	T5
Fixture Color:	Medical White
Dimensions:	5.50" H x 9.75" D x 4'-0" or Custom 3'-0" L
Remarks:	<ol style="list-style-type: none">1. To be used in patient rooms, PACU, Post-Op, Recovery only.2. Electrical devices (switches & plugs) refer to MEP Best Practices3. T5 or T8 lamp at the discretion of the facility
Location:	See Part 3 - Interior Room Finish Guide
Alternate:	Healthcare Lighting #HPW348-120V-T5EL-22-SX--FW

Sample:



REV. 11/05

adjustable patient light apl™



FEATURES

Contemporary wall mount hospital bedlight.

Robust extruded housing and die-cast flipper door handles ideal for hospital environment.

Smooth exterior allows for easy cleaning.

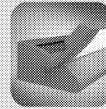
Provides indirect ambient and direct reading light for the patient.

Uplight flips forward for patient exam.

Lens snaps out for easy re-lamping.

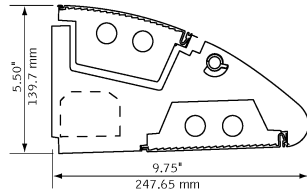
Ideal for hospital applications that require a wall mounted lighting solution.

details

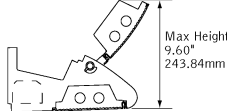


patient exam position

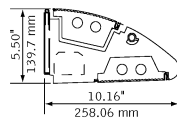
DIMENSIONAL DATA



exam position



bed power disconnect



pull chain location



pull chain and night light located on right side when facing fixture
pull chain with string is 42"

lamping options

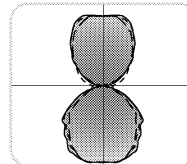


T5/T5HO LAMPS



T8 LAMPS

PERFORMANCE



2-Lamp T8
73% Efficiency
1700 cd @ 15°

See Photometric section for additional performance data.

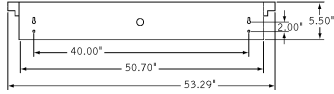
august 2005

306

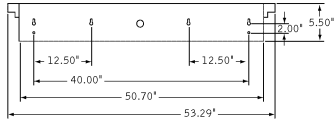
fixture type:
project name:

MOUNTING INFORMATION

standard mounting



mounting with bed power disconnect option



SPECIFICATIONS

construction

Three-piece housing of AA6063 T6 extruded aluminum (0.080" min. thickness).
Die-cast aluminum end plates mechanically fastened to housing with no exposed fasteners.
Extruded aluminum exam light door is finished with die-cast aluminum swing handles.
Bed power disconnect option includes 16 Ga. continuous hinge finished in Medical White.

weight: 40 lbs

optic

20 Ga. steel reflectors finished in High Reflectance White powder coat.
Top and bottom prismatic lenses made from 50% DR® clear virgin acrylic (0.05" min. thickness).
Lenses are retained by positive snap-in installation.

electrical

Ballasts are thermally protected and have a Class "P" rating.
Optional line voltage and low voltage switching available.
Bed power disconnect option includes momentary switch mounted to back of fixture.
Hill-Rom 203505xxx series Universal Single gang Low Voltage Controller for sequential or separate independent control of the uplight and downlight components. Will accept dual inputs or a single sequential input. For use with single pole Momentary switches only. Available in 120 VAC or 277 VAC. (5A Resistive, 3A Incandescent, 2A Ballast) UL Listed.
Optional programmable LLC DuraTouch FM series for use with virtually any Momentary or Maintained switching. Available in 120 VAC or 277 VAC. 1-3 momentary or maintained switch inputs. 1-3 load capacity, 200W per load. UL Listed.
Optional 7w or 9w night light circuit is available with magnetic ballast only. UL and cUL listed.

finish

Polyester powder coat applied over a 5-stage pre-treatment.
Standard luminaire housing finished in Medical White.

ORDERING

luminaire series FAPL

APL FAPL

lamp quantity

1 Up 1 Down 11
1 Up 2 Down 12
2 Up 1 Down 21
2 Up 2 Down 22

lamp type

T8 Lamp T8
T5 Lamp T5
T5H0 Lamp T5H0

voltage

120 Volt 120
277 Volt 277
347 Volt 347

(consult factory for availability)

ballast

Electronic Instant Start <20% THD E
(T8 Only)
Electronic Program Start <10% THD S

factory options

Single Fuse and Holder FU
Low Voltage Controller (specify requirements) LV
Night Light (PL7 Or PL9) NL
Radio Interference Filter RF
4 Position Pull Chain Switch (120 Volt only) 4P
Bed Power Disconnect BP

finish

Medical White DW

luminaire length

4' 4'

MEDICAL

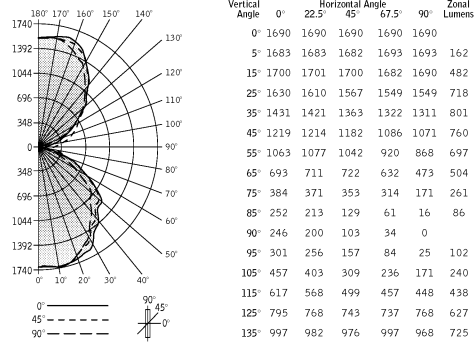
Focal Point L.L.C. 4201 South Pulaski Rd, Chicago, Illinois 60632 | T: 773.247.9494 | F: 773.247.8484 | info@focalpointlights.com | www.focalpointlights.com
Focal Point L.L.C. reserves the right to change specifications for product improvement without notification.

reading
apl™



Filename: FAPL22T8.IES
 Catalog #: FAPL-22-T8-120-E-DW-4' (All on, reading)
 Efficiency: 73%
 Test #: 12324.0

CANDLEPOWER DISTRIBUTION



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0°-30°	1362	11.5	15.8
0°-90°	2162	18.3	25.2
90°-130°	3619	30.7	42.1
90°-180°	4470	37.9	52.0
Total Luminaire	0°-180° 8597	72.9	100.0

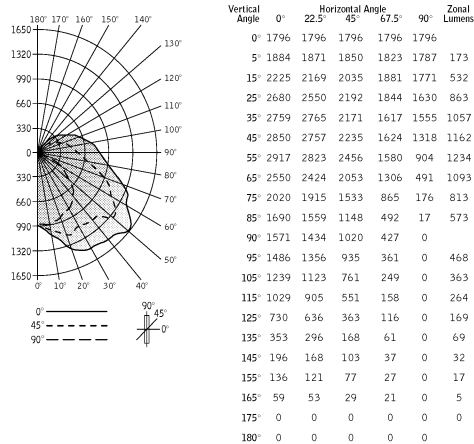
Go to www.focalpointlights.com for additional photometric data.

exam
apl™



Filename: FAPL22T8EX.IES
 Catalog #: FAPL-22-T8-120-E-DW-4' (All on, exam)
 Efficiency: 75%
 Test #: 12325.0

CANDLEPOWER DISTRIBUTION



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0°-30°	1567	13.3	17.6
0°-90°	2625	22.2	29.5
90°-130°	5021	42.5	56.5
90°-180°	7499	63.6	84.4
Total Luminaire	0°-180° 8886	75.3	100.0

Go to www.focalpointlights.com for additional photometric data.

Product: 2x4 Recessed Surgical Fluorescent
Manufacturer: Lightolier
Series: SUS
Model: SUS2FFSMA632-277-OSQT 3G RFI
Size: 24" x 47-31/32"
Number of Lamps: 4 or 6
Wattage: 32W
Ballast Type: Refer to MEP Best Practices
Lamp Size: T8
Lamp Color: 4100K, CFI to be 80 or higher
minimum 82 CRI

Remarks: 1. Electrical devices (switches & plugs) refer to MEP Best Practices

Location: Operating Rooms and Sterile Corridors

Alternate: Kurtzon #ML-F-1-2x4-6/T8-277-ELEC-2/RFI
Daybrite #2SLPF632-FA12RF-277-RF2-2/3EB-PAF

Sample:



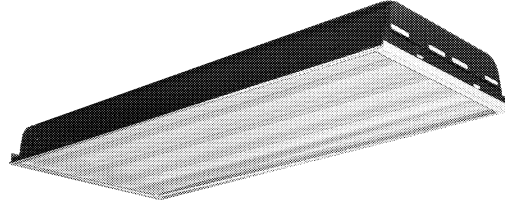
SURGICAL PERIMETER LUMINAIRE **SUS SERIES 432/632**

Page 1 of 4

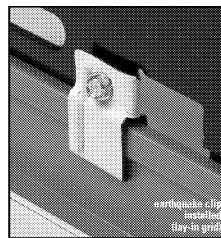
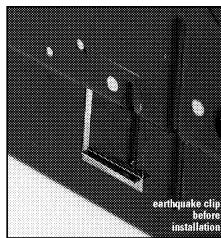
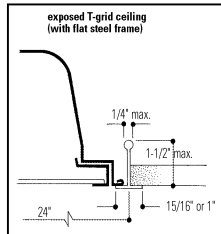
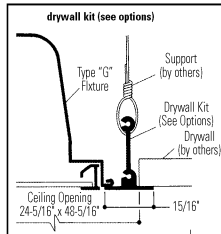
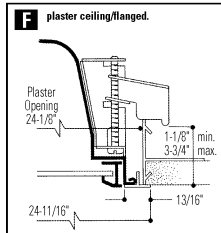
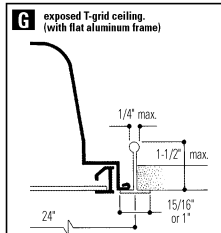
2'x4' RECESSED FLUORESCENT, ASYMMETRIC/SYMMETRIC ACRYLIC LENS
RFI SHIELDED, 4 OR 6 LAMP, T8 OR T12

Features

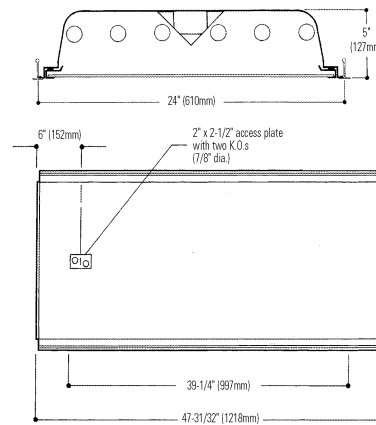
- Asymmetric/symmetric distribution provides: supplemental illumination to operating table.
- Minimizes contrast between surgical and surrounding areas.
- Meets government specification for Radio Frequency Interference (RFI), MIL-STD 461-A, MIL-STD 462 and MIL-STD 463.
- One radio suppressor per fixture (standard).
- High efficiency 60.9% (6 light) 61.2% (4 light).
- One-piece housing.
- Hemmed over side rails for maximum safety.
- Built-in earthquake clips (pat. no. 5,072,344).
- Flat full-size steel lens frame is gasketed.
- 2-1/4" lamp to integral light stop for easy lamp removal.
- Black housing exterior for cooler ballast operating temperature.



MOUNTING METHODS



DIMENSIONS



Job Information	Type:
Job Name: MEMORIAL HERMANN STANDARDS	LTG-8
Cat. No.:	
Lamp(s):	
Volts/Ballast:	

Lightolier a Genlyte Thomas Company www.lightolier.com
 Technical Information: (978) 657-7600 • Fax (978) 658-0595
 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
 We reserve the right to change details of design, materials and finish.
 © 2002 Genlyte Thomas Group LLC (Lightolier Division)
 A0902 **SECTION 8/Folio R50-10 REV. B**

LIGHTOLIER®

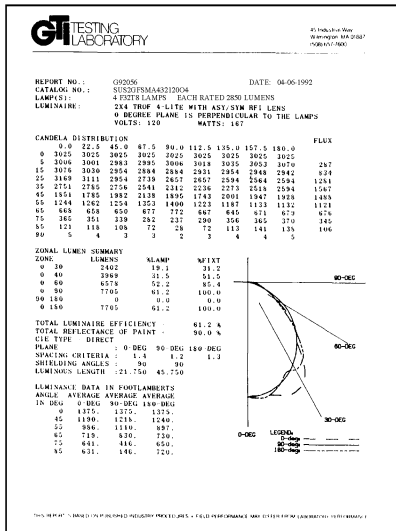
SURGICAL PERIMETER LUMINAIRE **SUS SERIES 432/632**

Page 2 of 4

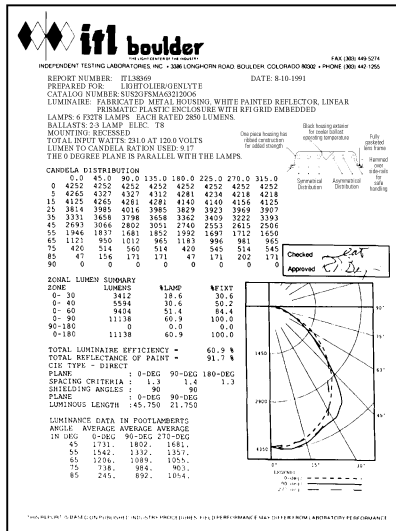
2'x4' RECESSED FLUORESCENT, ASYMMETRIC/SYMMETRIC ACRYLIC LENS
RFI SHIELDED, 4 OR 6 LAMP, T8 OR T12

PHOTOMETRY

MODEL NO. SUS2GFSMA43212004

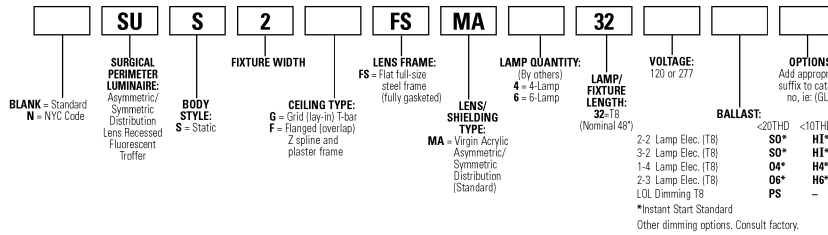


MODEL NO. SUS2GFSMA63212006



ORDERING INFORMATION

Explanation of Catalog Number. Example: SUS2GFSMA63212006GLR



OPTIONS & ACCESSORIES

- CONTINUOUS ROW INSTALLATION:** For F type fixtures, half-width flanges are required between fixtures. Order Catalog Number **S2FCTRIM** trim (each joint).
- PLASTER FRAMES:** Catalog Number: **PF24**.
- ELECTRICAL WIRING OPTIONS:** Consult factory.
- SEISMIC HOLD-DOWN CLIP:** For type G troffers. SUFFIX: **4HD** (For NYC only).
- FUSING:** Internal fast-blow fusing. SUFFIX: **GLR**. Internal slow-blow fusing. SUFFIX: **GMF**.
- RADIO INTERFERENCE FILTER:** (If one per ballast is required) 120 or 277 volt, 50 or 60 Hz. SUFFIX: **RF**. Not available on SUS632 (6 lamp) with 3-2 lamp ballasts. (Fixture comes standard with one RFI filter).
- DRYWALL KIT:** Order Catalog Number: **FK92X4**. (Request Folio OA30-10).
- CHICAGO PLENUM:** SUFFIX: **CP**.

SPECIFICATIONS

MATERIALS: Chassis parts are die-formed code gauge cold rolled steel. Housing is embossed for rigidity with all edges turned up for safe handling. Lens frame—(FS) flat full-size steel frame fully gasketed (standard) to eliminate any light leaks which may be a potential radio wave leak.

Specifications (continued)

- FINISH:** Chassis exterior—black baked polyester enamel. Cavity—white baked polyester enamel minimum 86% reflectance. Phosphate undercoating.
- LENS:** Extruded virgin acrylic asymmetric/symmetric distribution with Radio Frequency Filter (RF) to meet **MIL-STD 461-A**, **MIL-STD 462** and **MIL-STD 463**.
- ELECTRICAL:** Thermally protected class "P" ballast C.B.M. approved, non PCB. If K.O. is within 3' of ballast, use wire suitable for at least 90°.
- LABELS:** I.B.E.W./UL and C-UL.

Job Information Type: **LTG-8**

Lightolier a Genlyte Thomas Company www.lightolier.com
 Technical Information: (978) 657-7600 • Fax (978) 658-0595
 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
 We reserve the right to change details of design, materials and finish.
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SECTION 8/Folio R50-10 REV. B
 A0902

LIGHTOLIER®

SURGICAL PERIMETER LUMINAIRE **SUS SERIES 432/632**

Page 3 of 4

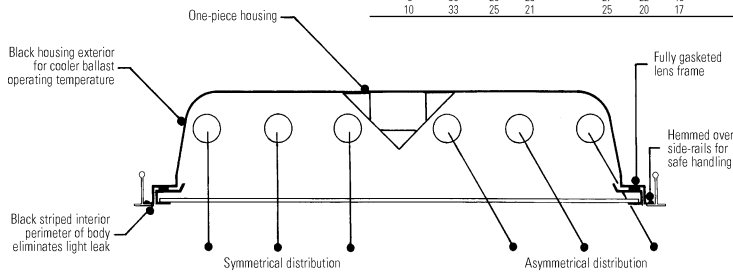
2'x4' RECESSED FLUORESCENT, ASYMMETRIC/SYMMETRIC ACRYLIC LENS
RFI SHIELDED, 4 OR 6 LAMP, T8 OR T12

MODEL NO. SUS2GFMSA63212006

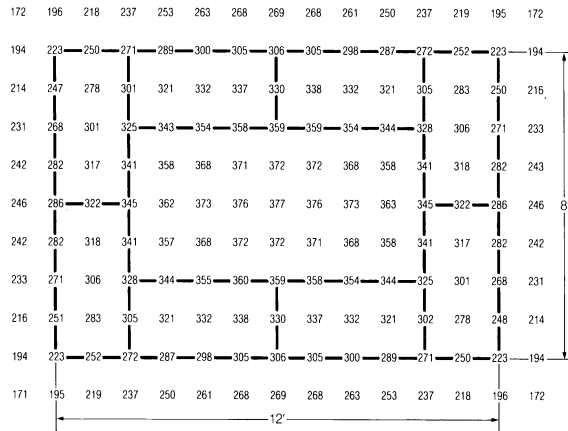
coefficients of utilization — zonal cavity method

RF	20			20			20		
RC	80			50			30		
RW	70	50	30	50	30	10	50	30	10
1	67	64	62	60	58	57	58	56	55
2	61	56	53	53	50	48	51	49	46
3	56	50	45	47	43	40	46	42	40
4	51	45	39	42	38	35	41	37	34
5	47	40	35	38	34	30	37	33	30
6	44	36	31	34	30	27	33	30	27
7	41	33	28	31	27	24	31	27	24
8	38	30	25	29	24	21	28	24	21
9	36	28	23	27	22	19	26	22	19
10	33	25	21	25	20	17	24	20	17

60.9% EFFICIENT



G TYPE ONLY



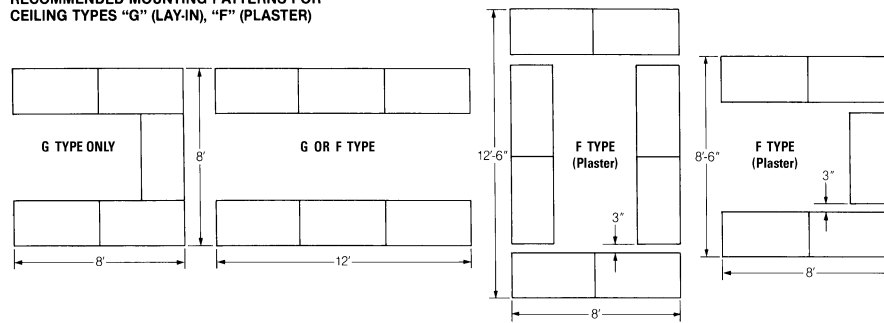
The footcandle readings of a typical 8' x 12' pattern layout of 8, G lamp units, illustrates that the asymmetric distribution adds 35% more light to the operating area (room size 12' x 16' x 9' ceiling).

A silver grid printed on the back of the asymmetric lens, grounded to the fixture, prevents RFI interference with other equipment.

To prevent any EMI leakage, the housing is sealed and the lens frame is fully gasketed.

F Type fixtures cannot butt together end to side. A space is required between fixtures (See diagrams below).

RECOMMENDED MOUNTING PATTERNS FOR CEILING TYPES "G" (LAY-IN), "F" (PLASTER)



LIGHTCOLIER®

SURGICAL PERIMETER LUMINAIRE **SUS SERIES 432/632**

Page 4 of 4

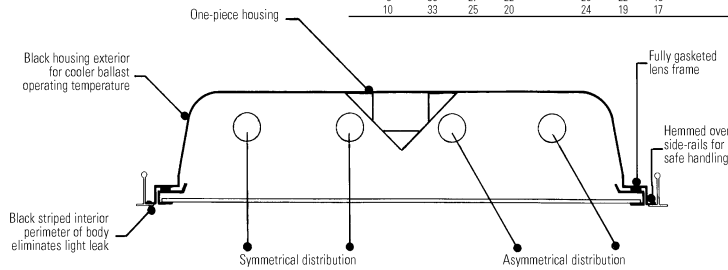
2'x4' RECESSED FLUORESCENT, ASYMMETRIC/SYMMETRIC ACRYLIC LENS
RFI SHIELDED, 4 OR 6 LAMP, T8 OR T12

MODEL NO. SUS2GFMSMA43212004

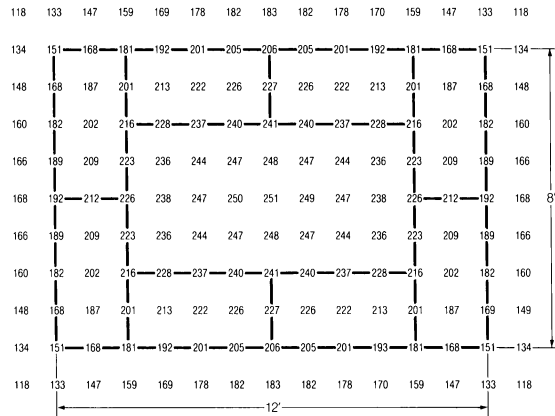
coefficients of utilization — zonal cavity method

RF	20			20			20		
RC	80	50	30	50	30	10	50	30	10
RW	70	50	30	50	30	10	50	30	10
1	68	65	63	61	59	58	59	57	56
2	62	58	54	55	52	50	53	51	49
3	58	52	48	49	46	43	48	45	42
4	53	47	42	44	40	37	43	40	37
5	49	42	36	40	35	32	38	35	32
6	45	37	32	36	31	28	35	31	28
7	42	34	29	32	28	25	31	28	25
8	38	30	25	29	25	22	28	24	21
9	35	27	22	26	22	19	25	21	19
10	33	25	20	24	19	17	23	19	16

61.2% EFFICIENT



G TYPE ONLY

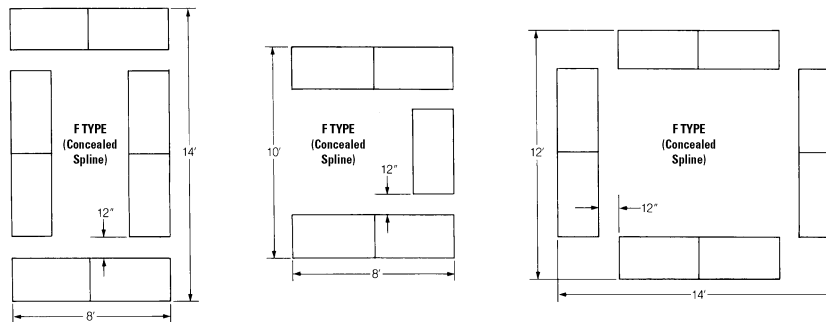


The footcandle readings of a typical 8' x 12' pattern layout of 8, 4 lamp units, illustrates that the asymmetric distribution adds 35% more light to the operating area (room size 12' x 16' x 9' ceiling).

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F Type fixtures cannot butt together end to side. A space is required between fixtures (See diagrams below).



LIGHTCOLIER®

Product: Exit Sign - Thermoplastic
Manufacturer: Lithonia
Series: Quantum
Model: LQM-S-W-3-G-120/277
Size: 11-3/4" x 7-5/8"
Letter Color: Green
Lamps: LED

Remarks: 1. Verify number of faces and Arrow direction.

Location: See Part 3 - Interior Room Finish Guide

Alternate: Lightolier #LLNUGW
McPhilben #CXL3GW

Sample:





FEATURES

INTENDED USE

Ideal for applications requiring attractive, quick installation exit signs and low energy consumption.

CONSTRUCTION

Engineering-grade thermoplastic housing is impact-resistant, scratch-resistant and corrosion-proof. UL94V-0 flame rating (UL94-5VA with CSA option). UV-stable resin resists discoloration from natural and man-made light sources.

Rugged unibody housing snaps together with no additional mechanical fasteners. Faceplate and back cover are interchangeable on housing. Positive snap-fit tabs hold faceplate securely, yet pry out easily for lamp compartment access.

Universal directional chevron inserts are easily removed and reinserted. Uniform graphics illumination without shadows or hot spots. Reinforced, impact-resistant color panels. Letters 6" high with 3/4" stroke.

U.S. Patent No. 5,526,251, 5,611,163 and 5,954,423. Other patents pending.

LAMPS

LEDs mounted on printed circuit boards. Expected LED life over 25 years. Low energy consumption – less than one watt.

INSTALLATION

Universal (top, end or back) mounting. Easily removed mounting knockouts. J-box pattern on back panel. Housing snaps to canopy with four positive-locking tabs. Cam-locking pin tightly secures housing to canopy.

LISTING

UL listed (standard). CSA Certified, C-860 and C22.2 No.9 or NOM Certified (see Options). Meets UL, NFPA 101 (current Life Safety Code), NEC and OSHA illumination standards, and State of Minnesota energy-efficient legislation requiring less than 20W consumption.

WARRANTY

Three-year total customer satisfaction warranty. For details, see Product Selection Guide.

Catalog Number	
Notes	Type

Thermoplastic Exits

LQM

LED Lamps



ORDERING INFORMATION

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line. Order accessories as separate catalog number.

Example: **LQM S W 3 R 120/277**

LQM		Face type		Housing color		Number of faces		Letter color		Input voltage ⁴		Options ²	
Family	LED	S	Stencil	(blank)	Black ¹	1	Single face ¹¹	R	Red	120/277	Dual voltage ¹	(blank)	None
LQM	LED	A	Aluminum appearance stencil ^{1,2}	W	White	3	Single face with extra faceplate and color panel	G	Green ¹	120/347	Dual voltage ¹	X2	Primary and secondary AC inputs provided ^{1,2,6,7}
		P	Panel ^{1,2,3}									DC6	6V DC lamps and sockets ^{1,2,6}
												DC12	12V DC lamps and sockets ^{1,2,6}
												DC24	24V DC lamps and sockets ^{1,2,6}
												DC48	48V DC lamps and sockets ^{1,2,6}
												LDC6	6V DC input for LED lamps ^{2,5}
												LDC12/48	12V – 48V DC input for LED lamps ^{2,5}
												SALIDA	Salida signage ^{1,2,6,9}
												CSA	CSA Certified ²
												NOM	NOM Certified for Mexico ^{1,2}
												DL	Listed for damp location ^{1,2}

Accessories

Order as separate item.

ELA WGEX Back-mount wireguard

ELA WGEXT Top-mount wireguard

ELA WGEXE End-mount wireguard

ELA LDC6 120/347 6V DC input for LED lamps, dual voltage AC input⁵

ELA LDC12/48 120/347 12V-48V DC input for LED lamps, dual voltage AC input⁵

ELA QMDC6 CSA 6V DC emergency lamps^{8,10}

ELA LQMSORTIE SORTIE stencil face & sign panel⁹

NOTES:

- Not available with CSA option.
- See back of spec sheet for special housing dimensions. Consult factory for compatible accessories.
- Special wording available in red or green. Consult factory.
- Some special voltages available. Consult factory.
- Only available with CSA option.
- UL listed as emergency lighting equipment.
- Not available with FI option.
- Not available with Aluminum (A) face type.
- Letters 6" high with 7/16" stroke.
- For other voltages, replace DC6 with DC12 or DC24.
- Only available with options.

Emergency

Sheet #: LQM

QMEX-100

LQM LED, Quantum

SPECIFICATIONS

ELECTRICAL

Primary Circuit

Type	Rated LED life ¹	Supply voltage	Input watts	Max. amps
Red LED	25+ years	120	.62	.05
		277	.69	.06
		347	.77	.05
Green LED	25+ years	120	.62	.05
		277	.74	.06

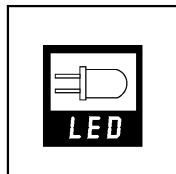
Supplemental Emergency Circuit

Type	Lamp description	Nominal lamp voltage	No. of faces	Electrical Input ²	
				watts	amps
DC6	Two #6S6/6V candelabra-base incandescent	6	1 or 2	12	2
DC12	Two #6S6/12V candelabra-base incandescent	12	1 or 2	12	1
DC24	Two #6S6/24V candelabra-base incandescent	24	1 or 2	12	.5
DC48	Two #6S6/48V candelabra-base incandescent	48	1 or 2	12	.25
LDC6 CSA	LQM LED 6V DC input	6	1 or 2	0.96	.16
LDC12 CSA	LQM LED 12V DC input	12	1 or 2	1.20	.10
LDC24 CSA	LQM LED 24V DC input	24	1 or 2	1.24	.05
LDC32 CSA	LQM LED 32V DC input	32	1 or 2	1.28	.04
LDC48 CSA	LQM LED 48V DC input	48	1 or 2	1.36	.03

1 Based on continuous operation.

2 Electrical input shown is total for exit sign operating at indicated supply voltage.

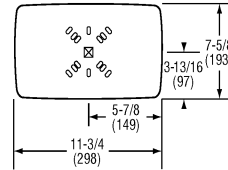
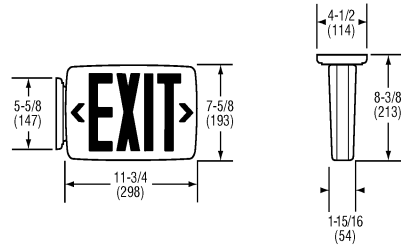
KEY FEATURES



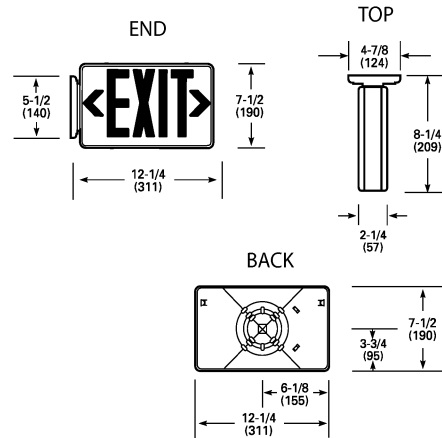
Unique LEDs provide extremely long life and low energy consumption.

MOUNTING

All dimensions are inches (millimeters).
Shipping weight: 2.6 lbs. (1.2 kgs.)



With Options (including: aluminum appearance stencil, panel faceplates and black housing) —



LITHONIA LIGHTING[®]
An AcuityBrands Company

Sheet#: LQM

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Lithonia Lighting
Acuity Lighting Group, Inc.
Emergency Systems Group
One Lithonia Way, Conyers, GA 30012
Phone: 800-334-8694 Fax: 770-981-8141
In Canada: 160 avenue Labrosse, Point-Claire, P.Q., H9R 1A1
www.lithonia.com

Product:	Exit Sign - Die Cast Aluminum
Manufacturer:	Lithonia
Series:	Signature
Model:	LE-S-*-G-120/277
Size:	12-1/4" x 7-1/2"
Letter Color:	Green
Lamps:	LED
Remarks:	1. Verify number of faces and Arrow direction.
Location:	See Part 3 - Interior Room Finish Guide
Alternate:	Lightolier #LDN* GA McPhilben #55L*WG

Sample:





Catalog Number	
Notes	Type

FEATURES

INTENDED USE

Ideal for applications requiring attractive die-cast aluminum signage, superior illumination and low energy consumption.

CONSTRUCTION

Precision-molded, die-cast aluminum construction — ultra-slim, compact housing. Fine-grain brushed aluminum faceplate with matte black electrostatic polymeric trim. Clear lacquer finish on brushed face inhibits fingerprints and other surface contaminants.

Fully overlapping light seal prevents light leaks. Universal directional chevron knockouts are completely concealed and easily removed.

Hinged faceplate and spring latches for easy lamp compartment access.

Letters 6" high with 3/4" stroke.

U.S. Patent No. 5,954,423.

LAMPS

Lamp is constructed using new LED technology. Provides perfectly uniform illumination to meet 3/4" letter stroke required by code.

LED life exceeds 25 years, based on continuous operation. Unique LED lamp platform accommodates both single-face and double-face exits.

Low energy consumption — red lamp consumes .81 watts (120V); green lamp consumes one watt (120V).

INSTALLATION

Universal mounting (top, end or back). Completely concealed, easily-removed mounting knockouts. No exposed hardware.

Die-cast aluminum canopy provided.

LISTINGS

UL listed. Meets UL 924, NFPA 101 (current Life Safety Code), NEC and OSHA illumination standards, and state of Minnesota energy-efficient legislation requiring less than 20W consumption. Listed and labeled to comply with Canadian Standards C-860 and C-22.2 No. 9 (see options).

WARRANTY

Three-year total customer satisfaction warranty on exit, including lamps. For details, see the Product Selection Guide.

Die-Cast Aluminum Exits

LE

LED Lamps



Signature

ORDERING INFORMATION

Example: LE S 1 R 120/277 TP

LE		Face type		Housing color		Number of faces		Letter color		Input voltage		Options	
LE LED	S Stencil P Panel ¹	(blank)	Matte black, brushed aluminum face	1 Single face 2 Double face	R Red G Green ²	120/277 Dual voltage ² 120/347 Dual voltage ³						TP Two tamperproof T20 Torx-head screws VR Vandal-resistant shield (1/8" thick polycarbonate) FI Fire alarm flashing interface ² X2 Lamp wired on two separate circuits ^{2,5,6} DL UL listed for damp locations LDC12/48 12V – 48V DC input for LED lamps ³ CSA Listed and labeled to comply with Canadian standards	
		BZ Dark bronze W White B Matte black											

- NOTES:
- 1 Panel face available for special wording only.
 - 2 Not available with CSA option.
 - 3 Only available with CSA option.
 - 4 Must specify input voltage (120V or 277V).
 - 5 UL listed as emergency lighting equipment.

Accessories

Order as separate items.

ELA US12 12" stem kit

Emergency

Sheet #: LE

SIEX - 100

LE Surface LED, Signature

SPECIFICATIONS

ELECTRICAL

Primary Circuit

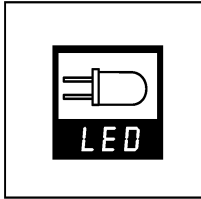
Type	Rated LED life*	Supply voltage	No. of faces	Input watts	Max. amps
Red	25+ years	120	1 or 2	.81	.05
Red	25+ years	277/347	1 or 2	1.2	.06
Green	25+ years	120	1 or 2	1.05	.05
Green	25+ years	277	1 or 2	1.32	.06

* Based on continuous operation.

Supplemental Emergency Circuit

Type	No. of faces	Nominal lamp voltage	Electrical watts	Input amps
LDC12/48	1 or 2	12	1.5	.12
LDC12/48	1 or 2	24	1.5	.06
LDC12/48	1 or 2	32	1.5	.05
LDC12/48	1 or 2	48	1.6	.04

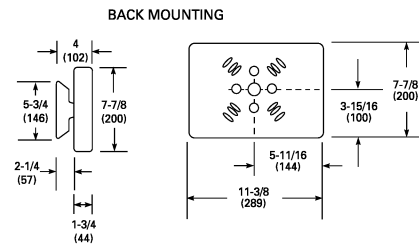
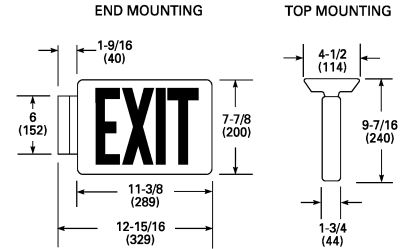
KEY FEATURES



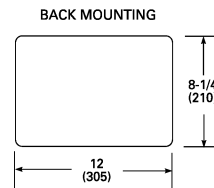
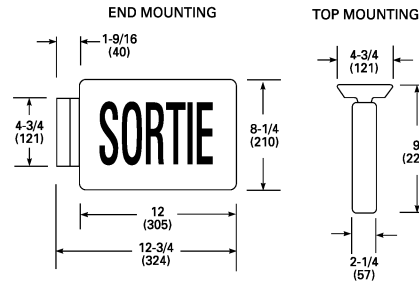
Unique LEDs provide extremely long life and low energy consumption.

MOUNTING

All dimensions are inches (millimeters). Canopy required for back mounting with X2, FI, or LDC12/48 options only. For VR option, add 1/4" to height and width. Add 1/8" depth for single face; 1/4" depth for double face. For SORTIE, ES3 or SE3 option, add 5/8" to width and 3/8" to height. Shipping weight: 5 lbs. (2.3 kgs.)



X2, FI, LDC6 or LDC12/48 options only.



Sheet #: LE

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Lithonia Lighting
 Acuity Lighting Group, Inc.
 Emergency Lighting Systems
 One Lithonia Way, Conyers, GA 30012
 Phone: 800-334-8694
 In Canada: 160 avenue Labrosse, Point-Claire, P.Q., H9R 1A1
 www.lithonia.com

Product: Stairwell Lighting
Manufacturer: Prudential
Series: WAL-14
Model: WAL-14 SD 2T8 04* * WM
Size: 48"W x 7"H x 4"D
Number of Lamps: 2
Wattage: 32W T8
Ballast Type: Refer to MEP Best Practices
Lamp Size: T8
Lamp Color: Refer to MEP Best Practices

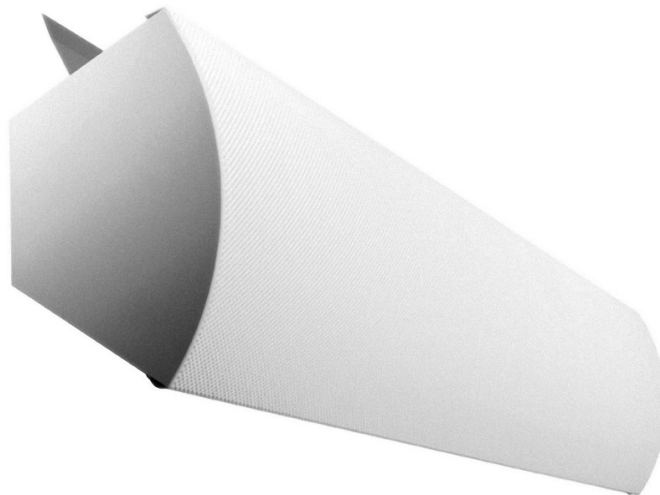
Remarks:

1. To be wall mounted in stair enclosure.
2. Electrical devices (switches & plugs) refer to MEP Best Practices

Location: See Part 3 - Interior Room Finish Guide

Alternate:

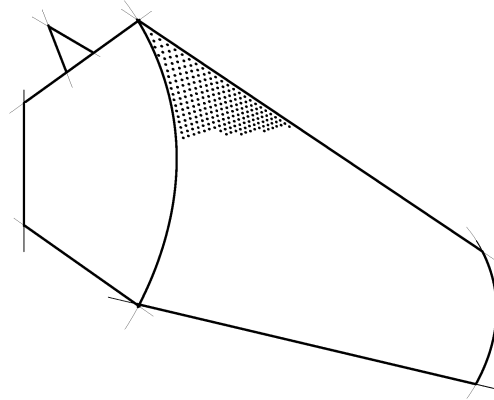
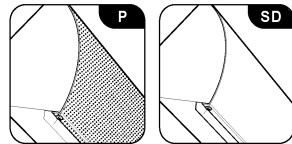
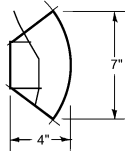
Sample:



Type
Job Name
Catalog Number



Wall Mount **WAL-14**



ordering

series	body style	lamp rows	nominal length	color/finish	circuiting	voltage	mounting	options
WAL-14	P* perforated	1T8	02'	TMW* textured matte white	SC single circuit	120	SUR† surface ceiling	EML*
	SD solid	2T8	03'	YGW gloss white	DC* dual circuit (in-line)	277	WM* direct to wall	EMH*
	*standard		04'	Y__ premium color		347	VWM† vertical wall mount	DM
			06'	CC custom color	*2T8 only			RSE
			08'	BAL† brushed aluminum				10THD
			R__*	CR† copper			*standard	B__
			*row length	GLV galvanized			†kicker reflector is not supplied	FH
				SSL† stainless steel lines				*consult factory for fixture lengths < 4'
				SSS† stainless steel squares				
				SSW† stainless steel weave				

Applications Stairwells, lobbies, hallways, open offices, small offices, retail, bathrooms.

Features An ADA-compliant wall luminaire. A fully perforated fascia gives the fixture a soft glow. The fixture is open on both the top and bottom of the fascia to give a wash of light both below and above while the specular kicker reflector pushes light out and away to wash the ceiling and illuminate the space.

Construction The housing, available in 2-, 3-, 4-, 6- or 8-foot standard lengths, and finish plates are made of 20-gauge steel.

Finish The standard exterior body color is textured matte white (TMW) or optional gloss white (YGW) using polyester powder paint. Refer to

ordering matrix for optional metal finishes or refer to **Defining Section** for optional paint colors. Finish plates match housings except on copper and stainless steel fixtures, where brushed plate aluminum is used.

Electrical T8 fixtures have instant-start electronic ballasts with less than 20% THD. Fixtures are U.L. Damp labeled (non-emergency) and I.B.E.W. manufactured. Maximum ballast size available: 2 3/8" width x 1 1/2" height.

Mounting Fixture is to be mounted directly to a wall or surface-mounted on ceilings.

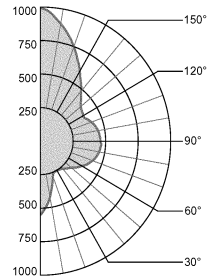
Options EML: emergency battery (T8=600 lumens); EMH: emergency battery (T8=1200 lumens); DM: dimming (consult factory); RSE: rapid-start electronic; 10THD: ballast with < 10% total harmonic distortion; B__ : specific ballast, specify manufacturer and catalog number (consult factory); FH: fixture fusing (slow blow).

WAL-14 Wall Mount

photometric data

WAL-14-P-2T8-04-TMW

Report # LSI1573 D=39.0% I=61.0%
Lamp Lumens: 2950 Input Watts: 60



Candlepower Summary

Vertical Angle	Horizontal Angle	Output Lumens
0°	22.5° 45° 67.5° 90°	
0	543 543 543 543	543
5	537 531 506 488	24
15	515 468 400 367	58
25	473 381 275 249	73
35	414 278 215 239	83
45	338 176 193 251	90
55	251 125 186 279	99
65	158 83 200 332	111
75	71 61 223 371	120
85	7 61 234 393	125
90	0 62 232 391	125
95	21 65 232 389	126
105	144 102 227 371	131
115	305 230 243 337	144
125	466 380 319 366	168
135	624 537 444 446	189
145	763 700 584 576	194
155	874 813 731 699	173
165	952 918 859 840	123
175	991 986 965 960	46
180	990 990 990 990	990

Zonal Lumen Summary

Zone	% Lamp	% Luminare
0-90	25.59	39.00
90-180	40.02	61.00

Efficiency = 65.6%

Luminance Summary (cd/m²)

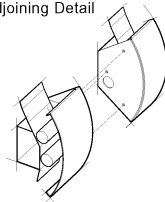
Angle	0°	45°	90°
45	6623	1652	1831
55	6063	1474	1926
65	5180	1471	2071
75	3801	1541	2153
85	1112	1562	2181

Coefficients of Utilization (%)

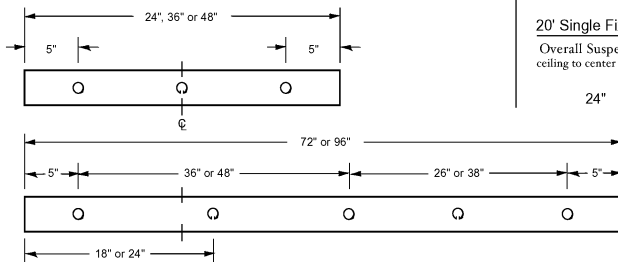
Floor Ceiling	effective floor cavity reflectance = 20										
	80	70	50	30	10						
RCR 0	69	69	69	62	62	62	51	51	51		
1	62	58	55	53	56	53	50	48	43	41	39
2	56	50	46	42	50	46	42	39	37	34	32
3	51	44	39	35	46	40	36	32	33	29	27
4	46	39	34	30	42	35	31	27	29	25	23
5	42	34	29	25	38	31	27	23	26	22	19
6	39	31	25	21	35	28	23	20	23	19	17
7	36	28	22	19	32	25	21	17	21	17	14
8	33	25	20	16	30	23	18	15	19	15	13
9	31	23	17	14	28	21	16	13	17	13	11
10	28	20	16	13	26	19	14	12	15	12	10

installation

Adjoining Detail

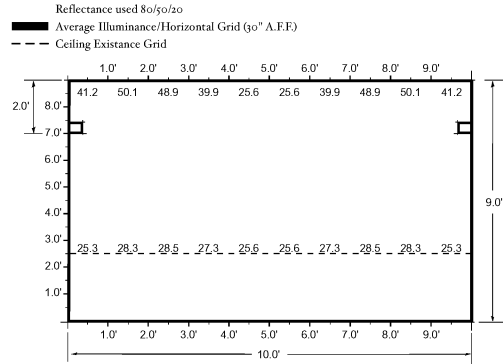


Mounting Locations



small office application

10' x 12' x 9' small office layout

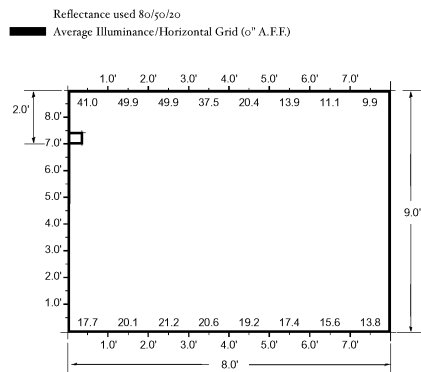


2-8' Rows on 10' Centers – WAL-14-P-2T8-TMW

Overall Suspension ceiling to center of lamp	Average Illuminance maintained (LLF = .70) (60° A.F.F.)	Ceiling Uniformity between fixtures	Watts/ Square Foot
24"	23.0 FC	2.0 : 1	2.0

corridor application

8' x 20' x 9' corridor layout



20' Single Fixture – WAL-14-P-2T8-TMW

Overall Suspension ceiling to center of lamp	Average Illuminance maintained (LLF = .70) (60° A.F.F.)	Max : Min (60° A.F.F.)	Watts/ Square Foot
24"	15.9 FC	2.2 : 1	1.8

In an effort to continually provide the highest quality products, Prudential reserves the right to change design specifications and/or materials, without notice.

Product: Recessed Linear Wall Washer
Manufacturer: Focal Point
Series: Avenue A
Model: FAVA-NS-1T5HO-1C-277-S-WH-4
Ballast Type: Refer to MEP Best Practices
Lamp Size: T5 HO
Fixture Color: Medical White
Dimensions: 4" H x 3.62" D x 4'-0"

Remarks:

1. To be used in upgraded patient and public areas. Specifically to illuminate artwork or special wall treatments.
2. Electrical devices (switches & plugs) refer to MEP Best Practices
3. T5 or T8 lamp at the discretion of the facility
4. 24" to 30" recommended distance from wall.

Location: See Part 3 - Interior Room Finish Guide

Sample:



avenue® a



FEATURES

Narrow aperture high performance T5/T5HO asymmetric wall wash.

Precision micro-optic delivers shadow free illumination from the ceiling to the floor.

Features 2" narrow aperture for clean unobtrusive aesthetic.

Universal mounting allows compatibility for multiple grid types.

Drywall installation is available, which allows for both individual or continuous row mount capability.

Great solution for conference rooms, highlighting artwork, corridors, white board or any application that requires high levels of vertical illumination.

companion luminaire



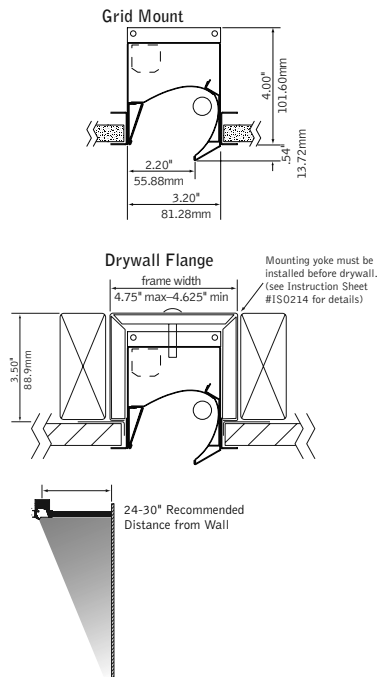
mr16

linear

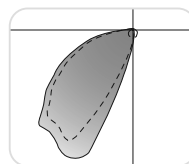
recessed wall mount

august 2016

DIMENSIONAL DATA



PERFORMANCE



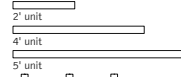
1-Lamp T5HO
57% Efficiency
1933 cd @ 25°

See Photometric section for additional performance data.

fixture type:
project name:

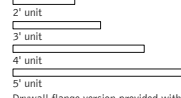
DETAILS

grid

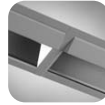
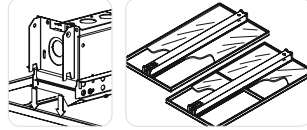


Luminaires cannot be installed in T-bar ceiling systems over 1.5".

drywall



Drywall flange version provided with mounting yoke.



row mount
detail

SPECIFICATIONS

construction

One-piece 20 Ga. steel housing
Grid luminaires include 20 Ga. steel, .5" wide universal flange rail finished in matte satin white.
Drywall flange option is provided with 20 Ga. steel, .5" wide flange kit and 20 Ga. galvanized steel mounting yoke.

2' unit weight:	5 lbs.
3' unit weight:	6 lbs.
4' unit weight:	7 lbs.
5' unit weight:	8 lbs.

optic

.020" specular aluminum upper reflector and .020" semi-specular lower reflector.
24 Ga. perforated matte black diffuser with 24% opening.

electrical

Luminaires are individually wired for specified circuits.
Thru-wiring not available.
Electronic ballasts are thermally protected and have a Class "P" rating.
Optional DALI and other dimming ballasts available.
Consult factory for dimming specifications and availability.
UL and cUL listed.

emergency

Emergency battery packs provide 90 minutes of illumination.
Initial lumen output for lamp types are as follows:

T5 Lamp:	Up to 550 lumens
T5HO Lamps:	Up to 825 lumens

Battery pack requires unswitched hot from same branch circuit as AC ballast.

finish

Polyester powder coat applied over a 5-stage pre-treatment.
Standard luminaire housing finished in Matte Satin White or Matte Black.
Perforated diffuser finished in Matte Black as standard.

ORDERING

luminaire series FAVA
Avenue A FAVA

shielding _____
No Shielding, Open Optic NS

lamping _____
One Lamp T5 1T5
One Lamp T5HO 1T5HO

circuits 1C
Single Circuit 1C

voltage _____
120 Volt 120
277 Volt 277
347 Volt 347
(Consult factory for availability)

ballast _____
Electronic Program Start <10% THD S
Electronic Dimming Ballast D
(Consult factory for dimming availability)

mounting _____
15/16" Grid G1
9/16" Grid G2
9/16" Slot Tee G3
Drywall Flange F
Cut out dimensions:
2': 3.5" x 23.6"
3': 3.5" x 35.6"
4': 3.5" x 47.6"
5': 3.5" x 59.6"

factory options _____
Chicago Plenum CP
Emergency Circuit EC
Emergency Battery Pack EM
(3' & 4' Luminaires Only)
Seismic Brackets EQ
HLR/GLR Fuse FU
Include 3000K Lamp L830
Include 3500K Lamp L835
Include 4100K Lamp L841

finish _____
Matte White Housing WH
Matte Black Housing BK
(Perforated diffuser always painted black)

luminaire length _____
2' Nominal Housing 2'
3' Nominal Housing 3'
4' Nominal Housing 4'
5' Nominal Housing 5'
(Dimming not available with 5' lamps)
(For continuous row mount in drywall ceiling, specify luminaire run length, ie 24')

RECESSED

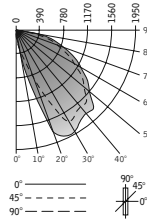
Focal Point L.L.C. 4201 South Pulaski Rd, Chicago, Illinois 60632 | T: 773.247.9494 | F: 773.247.8484 | info@focalpointlights.com | www.focalpointlights.com
Focal Point L.L.C. reserves the right to change specifications for product improvement without notification.

avenue® a



Filename: FAVANS1T5H.IES
 Catalog #: FAVA-NS-1T5HO-1C-120-S-G-WH-4'
 Efficiency: 57%
 Test #: 12355.0

CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	108	108	108	108	108
5°	276	256	214	154	101
15°	919	771	499	291	102
25°	1933	1873	1300	415	101
35°	1832	1799	1695	707	96
45°	1806	1775	1647	1296	88
55°	1434	1416	1329	1108	74
65°	1072	1052	962	811	56
75°	655	631	568	458	39
85°	317	294	224	129	14
90°	183	165	112	40	2
95°	0	0	0	0	0
105°	0	0	0	0	0
115°	0	0	0	0	0
125°	0	0	0	0	0
135°	0	0	0	0	0
145°	0	0	0	0	0
155°	0	0	0	0	0
165°	0	0	0	0	0
175°	0	0	0	0	0
180°	0	0	0	0	0

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt	
0°-30°	376	7.5	13.2	
0°-40°	784	15.7	27.4	
0°-60°	1975	39.5	69.0	
0°-90°	2861	57.2	100.0	
Total Luminaire	0°-180°	2861	57.2	100.0

Go to www.focalpointlights.com for additional photometric data.