

Lighting a Horizontal Surface

- **Lighting Fixture Solutions**
 - Down Lighting: lighting the floor
 - Uplighting: lighting the ceiling
- **Architectural Solutions**
 - Cove Lighting
 - Back Lighting

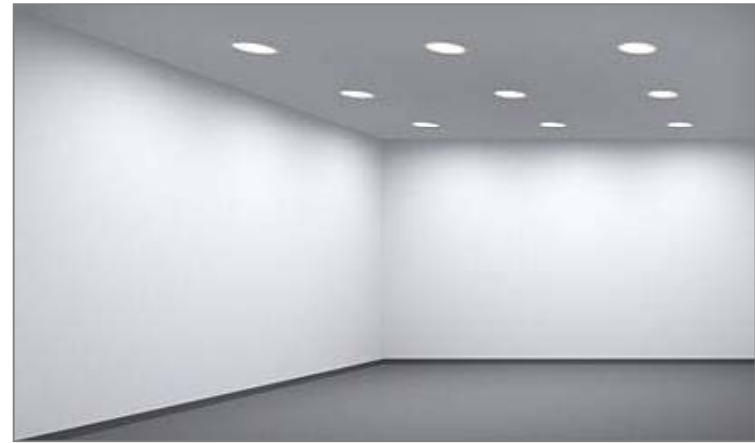
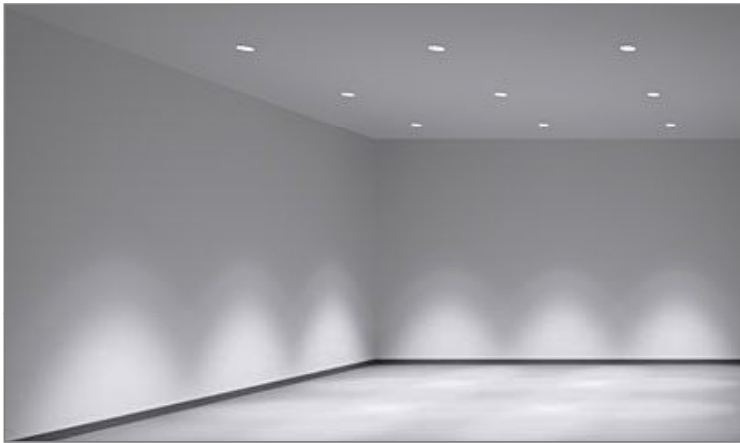
Lighting a Horizontal Surface

Direct Downlighting

Open Reflector Downlight



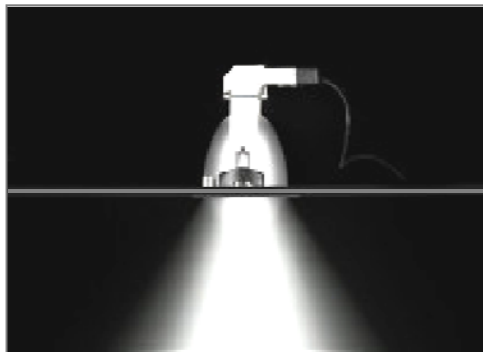
Lensed Downlight



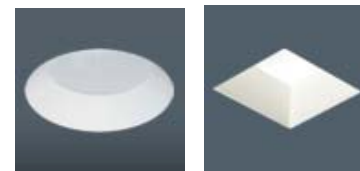
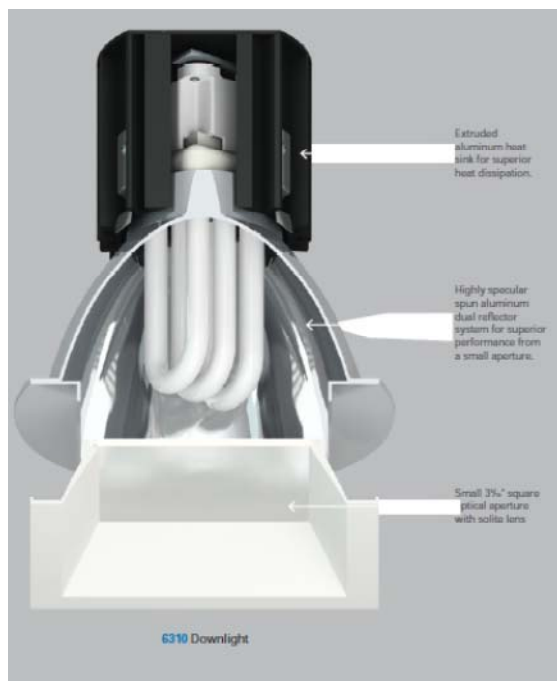
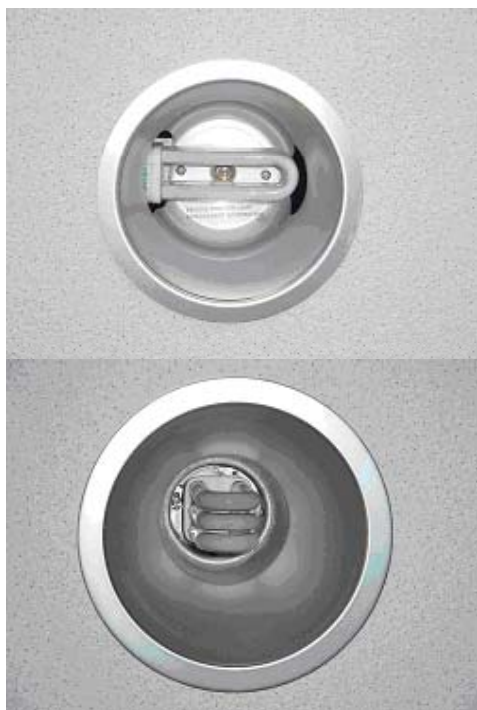
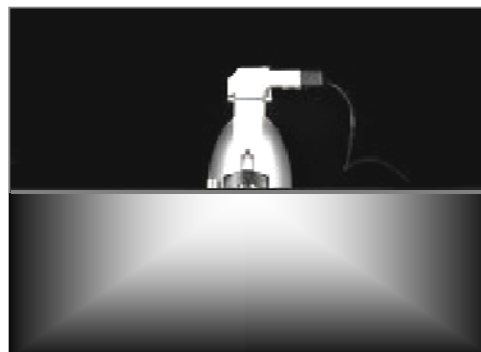
Lighting a Horizontal Surface

Direct Downlighting

Open Reflector Downlight



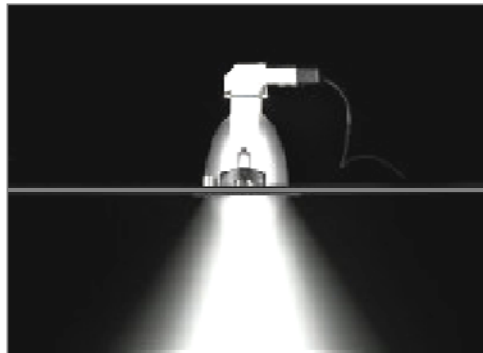
Lensed Downlight



Lighting a Horizontal Surface

Direct Downlighting

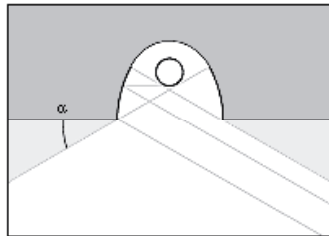
Open Reflector Downlight



The greater the cut-off angle, the greater the visual comfort provided by the luminaire due to improved glare control.

The greater the cut-off angle, the narrower distribution of light.

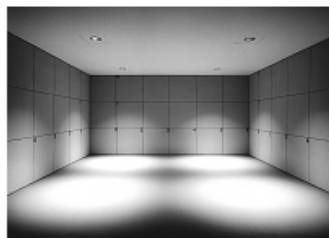
The same lighting layout of downlights produces different distributions in the room



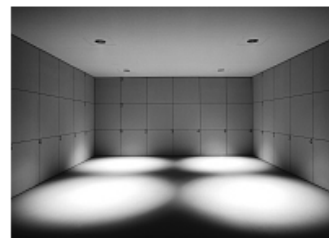
No light is emitted beyond the cut-off angle.



30° cut-off angle



40° cut-off angle



50° cut-off angle

- **Downlights with a 30° cut-off angle**, the distribution is towards vertical surfaces
- **Downlights with a 40° cut-off angle** gives the best possible compromise between the lighting horizontal surfaces below and vertical surfaces
- **Downlights with a 50° cut-off angle** achieve a high visual comfort for high rooms and emphasize the objects below – ie accent lighting.

Lighting a Horizontal Surface

Manufacturers Guides: Beam Guides



Calculite® Evolution Incandescent Adjustable Accent **C4P20A**

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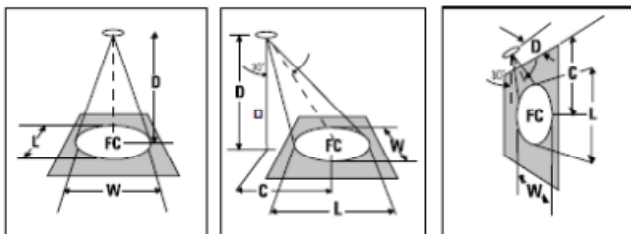
4 1/2" Aperture PAR20 / PAR16 Reflector Trim

Accent Lighting Performance Data

(FC) is initial footcandles at center of beam. Beam length (L) and beam width (W) are to where the candlepower is reduced to 50% of the center beam candlepower.

CBCP is center beam candlepower. (C) is distance to the center of the beam.

Lamp data shown is typical, and is based on bare lamp photometrics. Contact lamp manufacturers for availability and performance.

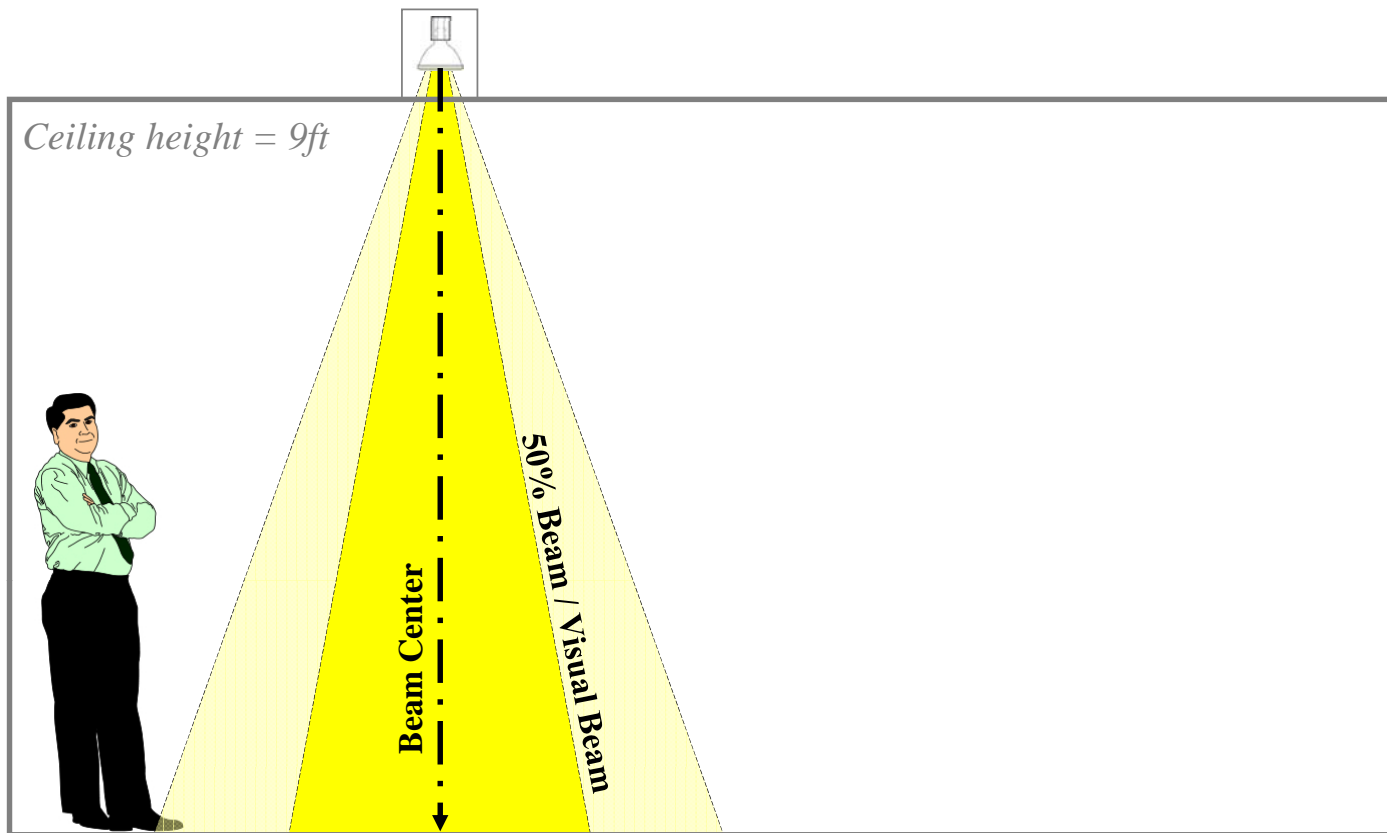


Lamps	Beam Spread (To 50% CBCP)	CBCP	Rated Life (Hrs.)	0° Aiming Angle				30° Aiming Angle				30° Aiming Angle					
				D	FC	L	W	D	C	FC	L	W	D	C	FC	L	W
PAR16 Halogen Line Voltage Lamps																	
60W PAR16 NSP	10°	5000	2000	6'	139	1.0'	1.0'	5'	2.9'	130	1.2'	1.0'	2'	3.5'	156	1.4'	0.7'
				8'	78	1.4'	1.4'	7'	4.0'	66	1.6'	1.4'	3'	5.2'	69	2.1'	1.0'
				10'	50	1.7'	1.7'	9'	5.2'	40	2.1'	1.8'	4'	6.9'	39	2.5'	1.4'
				12'	35	2.1'	2.1'	11'	6.4'	27	2.6'	2.2'	5'	8.7'	25	3.6'	1.7'
60W PAR16 NFL	30°	1300	2000	3'	144	1.6'	1.6'	3'	1.7'	94	2.2'	1.9'	1'	1.7'	163	2.7'	1.1'
				5'	52	2.7'	2.7'	5'	2.9'	34	3.7'	3.1'	2'	3.5'	41	5.5'	2.1'
				7'	27	3.8'	3.8'	7'	4.0'	17	5.1'	4.3'	3'	5.2'	18	8.2'	3.2'
9'	16	4.8'	4.8'	9'	5.2'	10	6.6'	5.6'	4'	6.9'	10	10.9'	4.3'				
75W PAR16 NSP	10°	7500	2000	7'	153	1.2'	1.2'	6'	3.5'	135	1.4'	1.2'	2'	3.5'	234	1.4'	0.7'
				10'	75	1.7'	1.7'	9'	5.2'	60	2.1'	1.8'	3'	5.2'	104	2.1'	1.0'
				13'	44	2.3'	2.3'	12'	6.5'	34	2.8'	2.4'	4'	6.9'	59	2.9'	1.4'
				16'	29	2.6'	2.6'	15'	8.7'	22	3.5'	3.0'	5'	8.7'	38	3.6'	1.7'
75W PAR16 NFL	30°	1900	2000	4'	119	2.1'	2.1'	3'	1.7'	137	2.2'	1.9'	1'	1.7'	238	2.7'	1.1'
				6'	53	3.2'	3.2'	5'	2.9'	49	3.7'	3.1'	2'	3.5'	59	5.5'	2.1'
				8'	30	4.3'	4.3'	7'	4.0'	25	5.1'	4.3'	3'	5.2'	26	8.2'	3.2'
10'	19'	5.4'	5.4'	9'	5.2'	15	6.6'	5.6'	4'	6.9'	15	10.9'	4.3'				
PAR20 Halogen Line Voltage Lamps																	
35W PAR20 NSP	8°	3000	2500	6'	83	0.8'	0.8'	5'	2.9'	78	0.9'	0.8'	2'	3.5'	94	1.1'	0.6'
				8'	47	1.1'	1.1'	7'	4.0'	40	1.3'	1.1'	3'	5.2'	42	1.7'	0.8'
				10'	30	1.4'	1.4'	9'	5.2'	24	1.7'	1.5'	4'	6.9'	23	2.3'	1.1'
				12'	21	1.7'	1.7'	11'	6.4'	16	2.1'	1.8'	5'	8.7'	15	2.8'	1.4'
35W PAR20 NFL	30°	3000	2500	3'	100	1.6'	1.6'	3'	1.7'	65	2.2'	1.9'	1'	1.7'	113	2.7'	1.1'
				5'	36	2.7'	2.7'	5'	2.9'	23	3.7'	3.1'	2'	3.5'	28	5.5'	2.1'



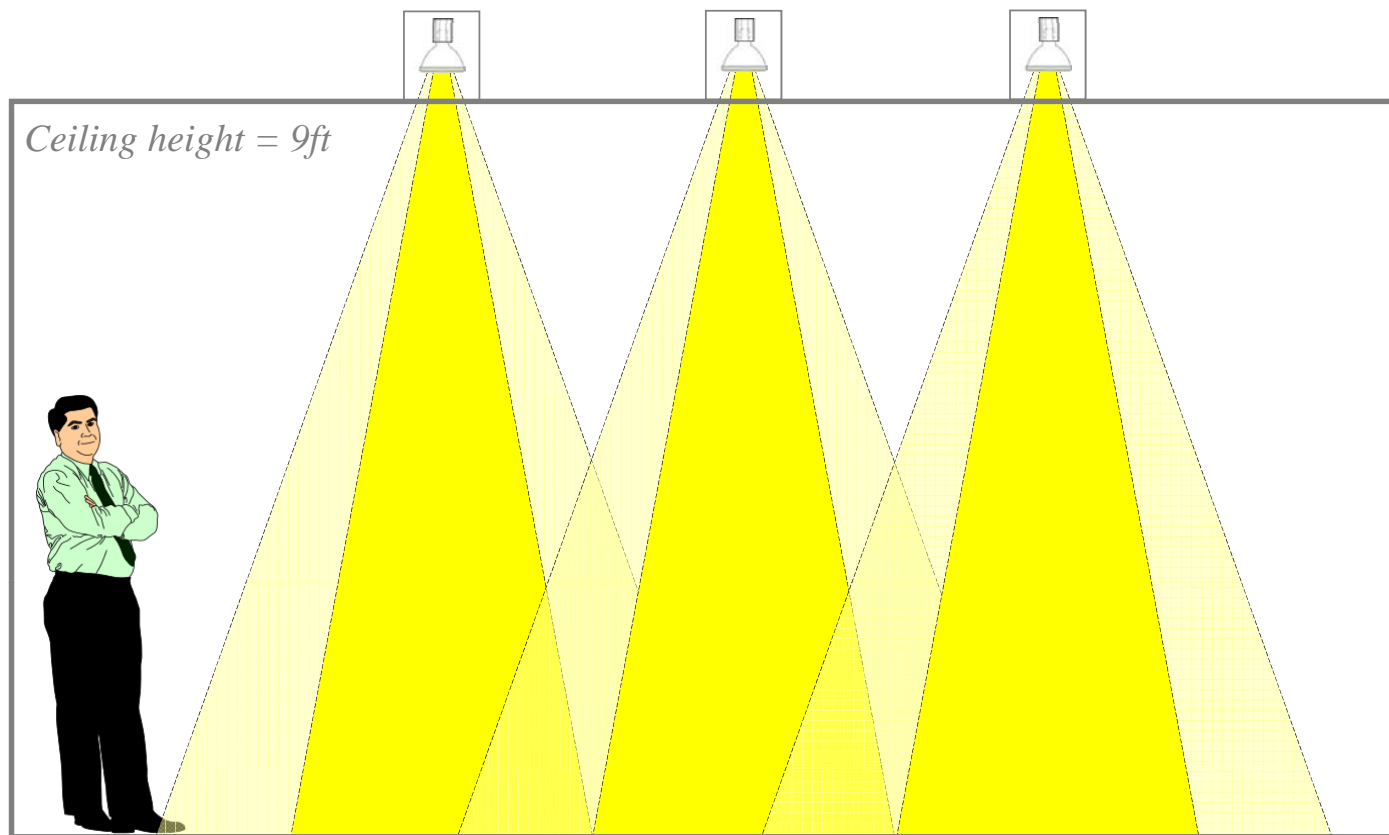
Lighting a Horizontal Surface

Beam Study



Lighting a Horizontal Surface

Beam Study

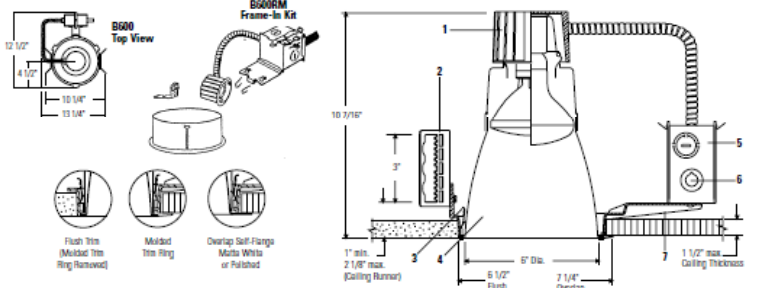


Lighting a Horizontal Surface

Downlight Spacing Criteria

Calculite® Incandescent Open Downlight **B7705** 6" Aperture BR30 / PAR30 Lamp

Page 1 of 2



B600 Ceiling Cutout: 6 9/16" Dia.
B600 RM Ceiling Cutout: 6 1/2" Dia.

Reflector Trim	Frame-In Kit	Lamp
B7705CLW Specular Clear finish with white flange	B600	PAR30 75W (for short neck PAR30 use socket extender #1968)
B7705CLP Specular Clear finish with polished flange		BR30 85W
B7705CL Specular Clear finish with milled trim ring (flangeless)		
B7705 Add suffix for other finishes (see options)		
Remodeler Frame-In Kit	Lamp	
B600RM (For use in existing ceilings with 3/8" min. to 2" max thickness.)	Same as B600	

Features

- Socket Cap:** Die-cast aluminum cap effectively dissipates heat and assures lamps maintain proper optical alignment to reflector. Snaps onto reflector neck for easy tool-less installation. Contains medium base porcelain socket, nickel plated screw shell wired with No. 18 SPT 1-wire to J-Box.
- Mounting Brackets:** Adjusts vertically from inside of fixture. Durable 16 ga. steel construction. Use with standard 3/4" or 1 1/2" lathing channels (by others), EMT pipe (by others), or Lightolier accessory mounting bars.
- Retaining Springs:** Precision tool-less springs secure reflector to mounting frame for quick tool-less installation.
- Reflector:** 16 ga. Specular Alzak® aluminum, 45° visual cutoff to lamp and lamp image. Available with white or polished flange, or with removable white milled trim ring (field paintable).
- Junction Box:** 14 ga. steel, 4" x 2" x 2" box allows inspection from below eliminating need for access from above.
- Thermal Protector:** Meets NEC and UL requirements. Insulation must be kept 2" away from fixture sides and wiring compartments and must not be placed above fixture in a manner which will entrap heat.
- Mounting Frame:** Die-cast aluminum suitable for dry or plaster ceilings. Provides flangeless trim in plaster ceiling.

Other Reflector Finish Options

Comfort Clear Diffuse	CCD
Specular Gold	GD
Specular Black	BK
Flange Options	
White	W
Polished Flange	P
Flangeless	Leave Blank (milled trim ring)

Options and Accessories

18" Mounting Bars	1950 (set of 2)
27" Mounting Bars	1951 (set of 2)

Options and Accessories (continued)

T-Bar Anchor Clips	1956 (set of 4, for 1950 & 1951 bars)
Wood Joist Mtg. Bars	7994 (see MBA specification sheet)
Sloped Ceiling Adapters	7920 (see SCA specification sheet)
Existing Ceiling Clips	7998 (set of 2)
Step Down Transformer	7997
Socket Extender	1968 (for short neck PAR30 Lamps)
Chicago Air Plenum	LC (add suffix to Frame-in Kit)

Electrical

B600 UL Listed for through branch circuit wiring with max. of (8) No. 12 or 60°C supply conductors for end of run.
B600RM UL Listed for No. 12 AWG 60°C supply conductors.

Labels

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

Alzak® is a registered trademark of ALCOA.

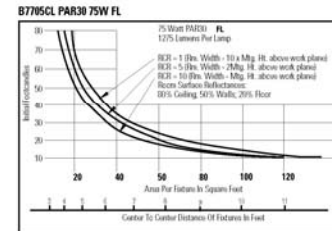
Job Information	Type:
Job Name:	
Est. No.:	
Lamp(s):	
Notes:	

Lightolier a Genlyte Thomas Company www.lightolier.com
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
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LIGHTOLIER®

Calculite® Incandescent Open Downlight **B7705** 6" Aperture BR30 / PAR30 Lamp

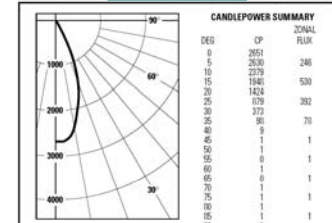
Page 2 of 2



Use graph calculator sheet to determine spacing of luminaires to desired level of illumination.

Conversion factors:
100' = 10.0 m; 1" = 25.4 mm; 1 ft. = 0.305 m; 1 sq. ft. = 0.093 m²

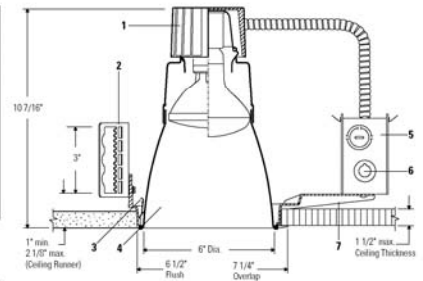
Spacing Ratio = 0.7



Zone	Lumens	Lamp	Foot
0-20	1160	91.63	90.40
20-30	1245	97.71	95.00
30-40	1247	97.68	95.04
40-50	1249	98.02	100.00
50-60	3	31	32
60-80	2	16	16
80-100	0	0	0
100	1249	98.02	100.00

Coefficients of Utilization	
% Effective Ceiling Cavity Reflectance	
Room Cavity Ratio	% WALL REFLECTANCE
	00 70 50 30 10 50 30 10 50 20 10 0
1	1.11 1.10 1.08 1.06 1.05 1.04 1.03 1.02 1.01 1.00 0.99 0.98 0.97 0.96 0.95 0.94
2	1.07 1.06 1.05 1.03 1.02 1.01 0.99 0.98 0.97 0.96 0.95 0.94 0.93 0.92 0.91 0.90
3	1.03 1.02 0.97 1.01 0.99 0.97 0.95 0.93 0.92 0.91 0.90 0.89 0.88 0.87 0.86 0.85
4	0.99 0.96 0.94 0.90 0.88 0.83 0.87 0.84 0.82 0.85 0.83 0.81 0.80 0.79 0.78 0.77
5	0.95 0.92 0.90 0.85 0.82 0.80 0.84 0.81 0.78 0.82 0.80 0.78 0.77 0.76 0.75 0.74
6	0.93 0.90 0.87 0.83 0.80 0.77 0.81 0.79 0.76 0.80 0.78 0.76 0.75 0.74 0.73 0.72
7	0.90 0.87 0.84 0.80 0.76 0.74 0.78 0.76 0.73 0.77 0.75 0.73 0.72 0.71 0.70 0.69
8	0.88 0.84 0.82 0.77 0.74 0.71 0.75 0.73 0.70 0.74 0.72 0.70 0.69 0.68 0.67 0.66
9	0.85 0.81 0.79 0.74 0.71 0.68 0.72 0.70 0.67 0.71 0.69 0.67 0.66 0.65 0.64 0.63
10	0.83 0.79 0.76 0.72 0.69 0.66 0.70 0.68 0.65 0.69 0.67 0.65 0.64 0.63 0.62 0.61

20% Floor Cavity Reflectance
Conversion Factor: For 50W and 75W PAR30 units with clear or gold reflector, multiply C.U.'s by 1.0; with black reflector, multiply C.U.'s by 0.6.



1" with 2 1/8" max. (Ceiling Runner)

6 1/2" Dia. 7 1/4" Overlap 1 1/2" max. Ceiling Thickness

10 7/16"

3"

1"

6"

7 1/4"

1 1/2"

1 1/2"

1 1/2"

1 1/2"

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Job Information Type:

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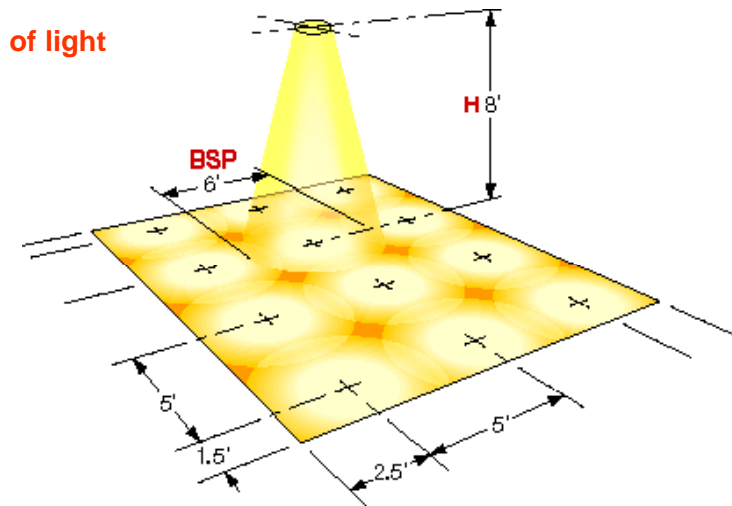
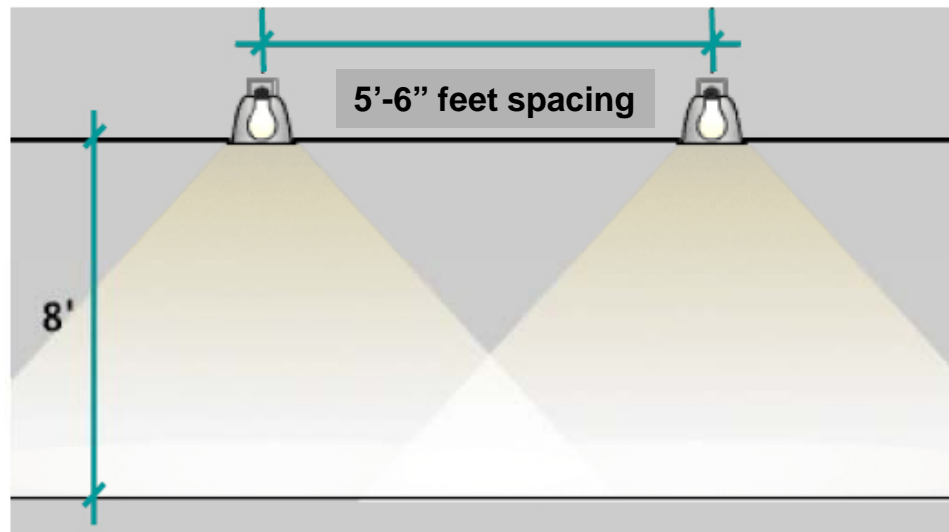
LIGHTOLIER®

Lighting a Horizontal Surface Downlight Spacing Criteria

Luminaire manufacturers provide spacing criteria (SC) or mounting height ratios (S/MH), for specific light fixtures with direct lighting distribution. These light fixtures include downlights, troffers, and high and low-bay light fixtures. These ratios are used to calculate the maximum recommended installation spacing to obtain an even pattern of light on the surface below the light fixtures. SC ratios help ensure that a space is evenly lit by slightly overlapping the light distribution from each light fixture.

SC typically range from 0.9 to 1.7, but can be as low as 0.5 or higher than 2.

SC x Mounting Height = recommended spacing for "even" pattern of light

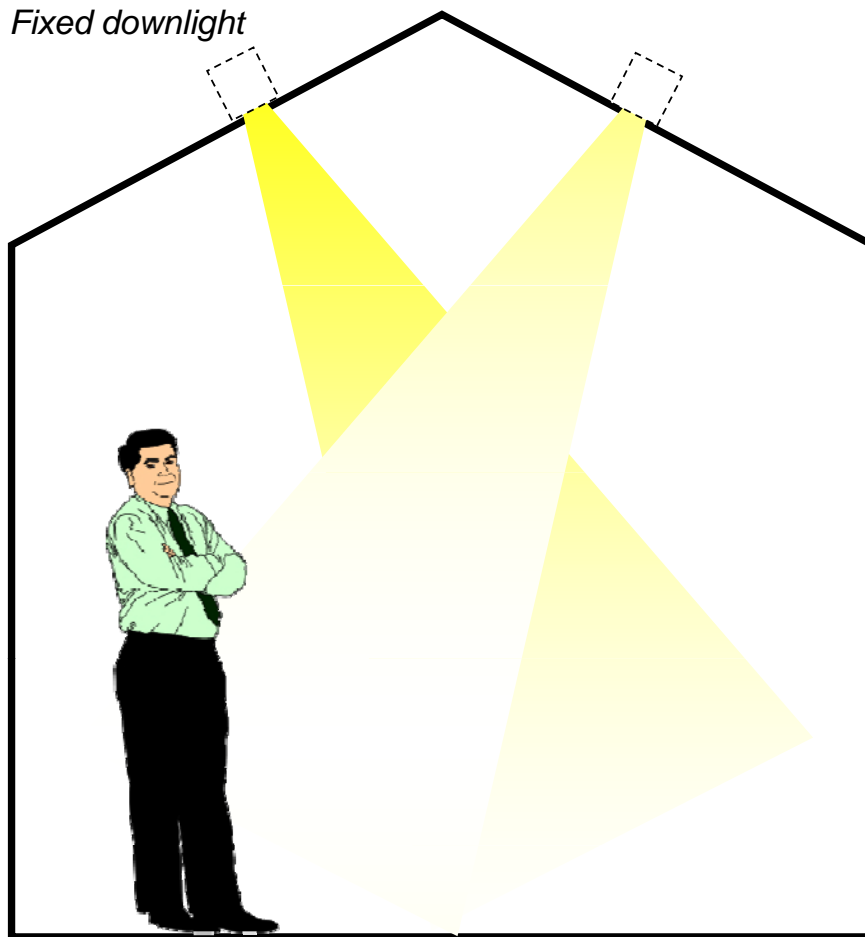


Example for recessed downlights:
If a manufacturer's **SC = 0.7**, and downlights are mounted in an 8 ft. ceiling.....

then the recommended maximum spacing between downlights will be
 $0.7 \times 8.0 \text{ ft} = 5.6 \text{ ft}$ (5'-6" ft.)

Lighting a Horizontal Surface

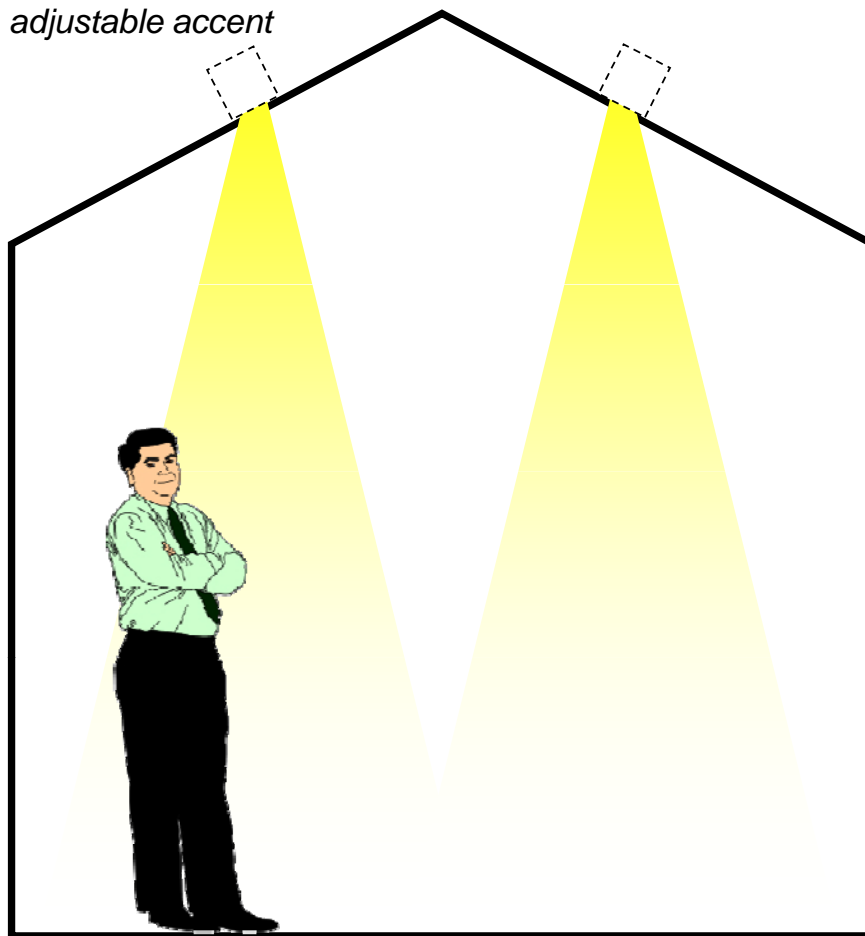
Sloped Ceiling



fixed downlight

Lighting a Horizontal Surface

Sloped Ceiling



adjustable accent



sloped ceiling housing

Lighting a Horizontal Surface

Downlighting Housings



Baffle
Use our most popular residential trim to minimize glare in General, Accent & Task lighting applications. Available in black and white finishes.



Open
The most economical choice for recessed downlighting. Available in white and polished brass finishes.



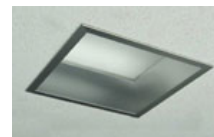
Reflector
Maximizes light output. Available in clear and gold specular finishes. For General, Accent and Task applications in residential and commercial environments.



Eyeball
Provides adjustable/directional lighting. Available in white and polished brass finishes. Suitable for Accent, Task and Wall Wash applications.



Lens
Diffuses light and shields lamp. Available in a white finish. Ideal for closets, bathrooms and covered porches.



Will housing be in direct contact with insulation?

Yes. Insulation can cover housing	No. Keep insulation 3" away from housing

Do you have above ceiling access?	Yes. Choose New Construction Housing	IC = New Construction / Insulated Housing	Non IC = New Construction / Non Insulated Housing
	No. Choose Remodel Housing	Remodeler / Insulated Housing	Remodeler / Non Insulated Housing



New Construction Insulated Housing



New Construction Non - Insulated Housing



Remodeler Housing Insulated Housing



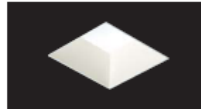
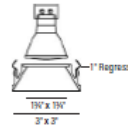
Remodeler Housing Non - Insulated Housing

Lighting a Horizontal Surface

Downlighting housings

BEVEL® Trimless Metal Halide Downlight

2450



LUMINAIRE INFORMATION

APPLICATION:

Accent luminaire for Residential, Commercial, Retail or Hospitality environments.

MATERIALS:

Trim: Die cast aluminum with mounting clips.
Housing: All-Ways Square™ housing allows alignment of square aperture (up to 45° rotation) after housing installation and prior to finish ceiling installation. Patent pending. Fabricated of 20 ga. galvanized steel with thru wire J-box, 2 in 2 out (4 in 4 out for IC/Airight) at min. 90°C, #12 AGW thru branch circuit wiring. Housing and trim supplied as one complete unit.
Trim Lens: Frosted

LAMP: (Not included)

(1) 20W or 39W MHMR16 GX10.

MOUNTING:

Butterfly brackets and adjustable nailer bars with integral nails provided. Nailer bars are extendible from 14" to 24" centers.

VOLTAGE:

Specify 120V or 277V.

BALLAST:

Solid state electronic.
Note: Due to ballast / dimmer match some dimmers may cause ballast hum. Check with dimmer manufacturer for suitability.

CEILING CUT OUT:

3 1/2" x 3 1/2"

NOTES:

- Housing included with trim.
- Maximum ceiling thickness 1 inch. Consult factory for other ceiling conditions.
- For drywall installation only.
- Not for use with acoustical ceilings.
- Maximum Millwork thickness 1 inch. Consult factory for other ceiling conditions.
- Maximum 1 lens option.
- Not for use with ES16 lamps.

LISTINGS:

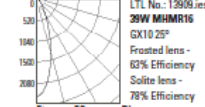
Dry/damp location.



IC/Airight housing meets Washington state airflow requirement and ASTM E283. Chicago Plenum housing is Chicago Plenum rated. IBEW union made.

PHOTOMETRICS:

Distribution chart

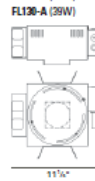


LTL No.: 12099.ies
20W MHMR16
GX10 25°
Frosted lens - 83% Efficiency
Solite lens - 78% Efficiency

HOUSING INFORMATION

New Construction

FL710-A (20W)
FL130-A (39W)



IC/Airright

FL710-A-IC (20W)
(Not available in 39W)



Chicago Plenum

FL710-A-CP (20W)
FL130-A-CP (39W)

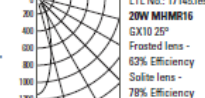


Millwork

FL710-A-ML (20W)
FL130-A-ML (39W)



Distribution chart



LTL No.: 17145.ies
20W MHMR16
GX10 25°
Frosted lens - 83% Efficiency
Solite lens - 78% Efficiency

ORDERING INFORMATION

Trim	Finish	Trim Lens*	Housing	Voltage	Accessories
2450	10 - White	B - Borosilicate Clear Lens	20W MHMR16	120V	CB27 - 27" C-Channel Bars
Bevel Trimless Downlight,	21 - Black	C - Clear Lens	FL710-A - New Construction	277V	CB52 - 52" C-Channel Bars
New Construction and Chicago Plenum: 20W or 39W MHMR16 IC/Airright: 20W MHMR16	28 - Metalized Grey	F - Frosted Lens	FL710-A-IC - IC/Airright		LAMPS - MHMR16 20W / 39W
		L - Linear Spread Lens	FL710-A-CP - Chicago Plenum		
		P - Prismatic Lens	FL710-A-ML - Millwork		
		S - Solite	39W MHMR16		
		U - Anti UV Filter	FL130-A - New Construction		
		*Frosted is standard unless option is specified	FL130-A-CP - Chicago Plenum		
			FL130-A-ML - Millwork		

How to Specify

2450	Trim	Finish	Trim Lens	Housing	Voltage	Accessories
------	------	--------	-----------	---------	---------	-------------

USAI®

USA Illumination™
www.usaiillumination.com
info@usaiillumination.com

1126 River Road
New Windsor, NY 12553

T 845-525-8500
F 845-561-1130

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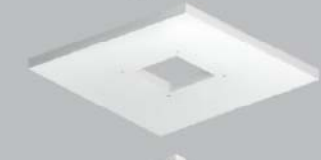
Simple Trimless Installation

Installation Steps

1. Install Housing



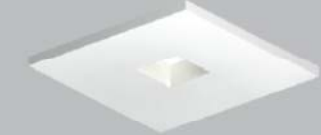
2. Install Drywall



3. Install Plaster Collar



4. Finish Ceiling



Installation Tools

Template

A steel cutting template is shipped with each fixture for exact dimensions, hole locations and a clean installation.

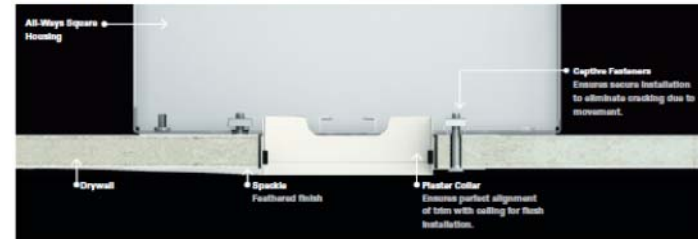
Overspray Protector

Cardboard overspray protector allows installers to completely finish ceiling before placing trims.

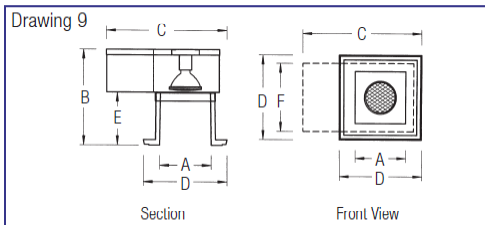
Finishing

Finish ceiling with normal procedures.

Cross Section Detail



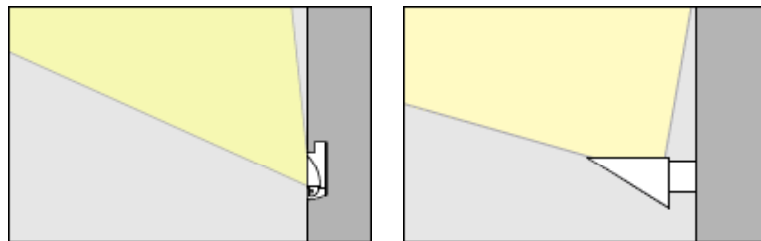
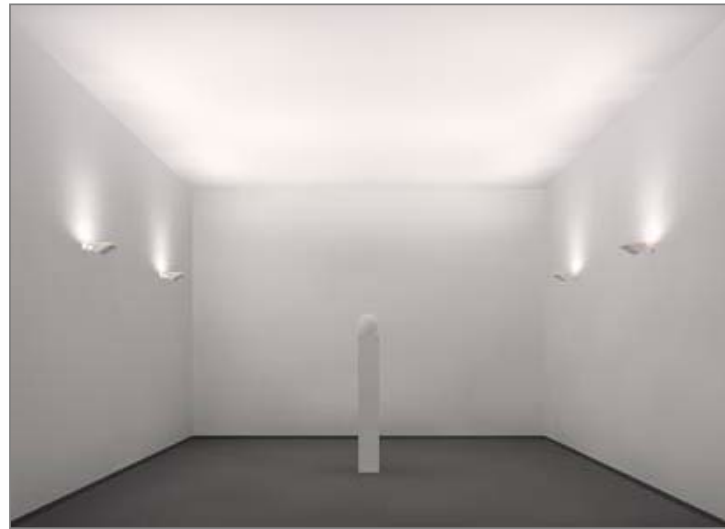
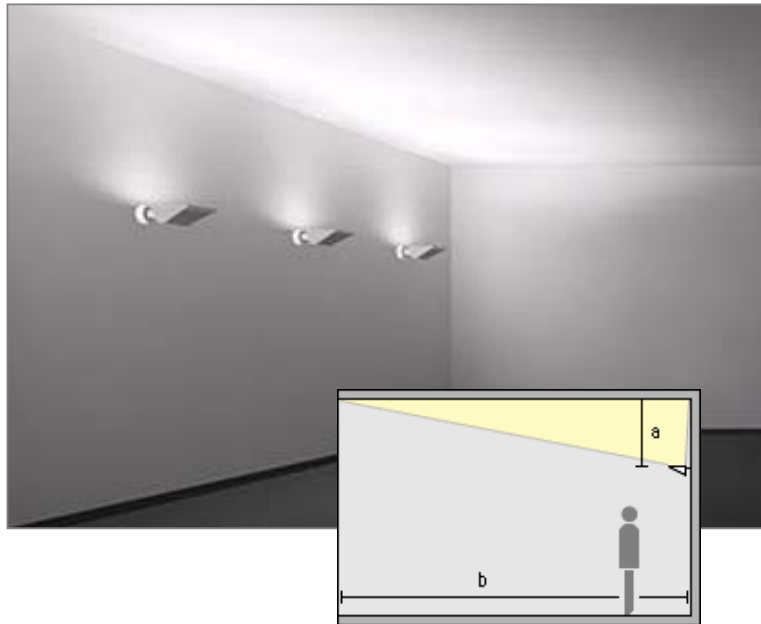
Lighting a Horizontal Surface



Model No. **	Drawing	A	B	C	D	E	F	Lamp
150PAR-HITC (S or R)-6-1A	9	6"	11-1/8"	14-3/8"	9-3/4"	6-1/8"	8-1/8"	Max 50 w Par30

Lighting a Horizontal Surface

Indirect Uplighting



Ceiling lighting requires sufficient room height to achieve even light distribution. Uplights should be mounted above eye-level to avoid direct glare. The ceiling offset depends on the degree of evenness required.

Lighting a Horizontal Surface

Indirect Uplighting

Architectural Uplight

Interior architectural uplighting is available in a wide variety of indirect beam patterns. Fixtures are mounted so as to locate the lamp above sight lines; thus, the luminaires unobtrusively enhance a space while maintaining glare-free visual comfort.

Beam Patterns (based on ITL photometric):

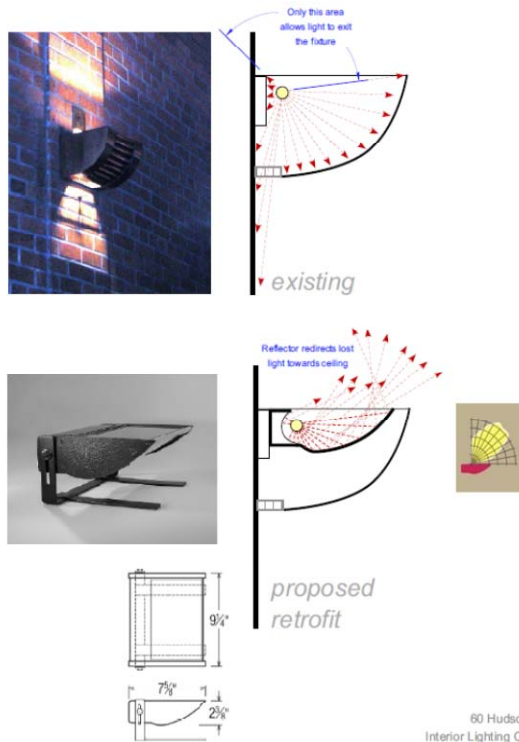


Click on the beam pattern icon that corresponds to the section you want to view or download.

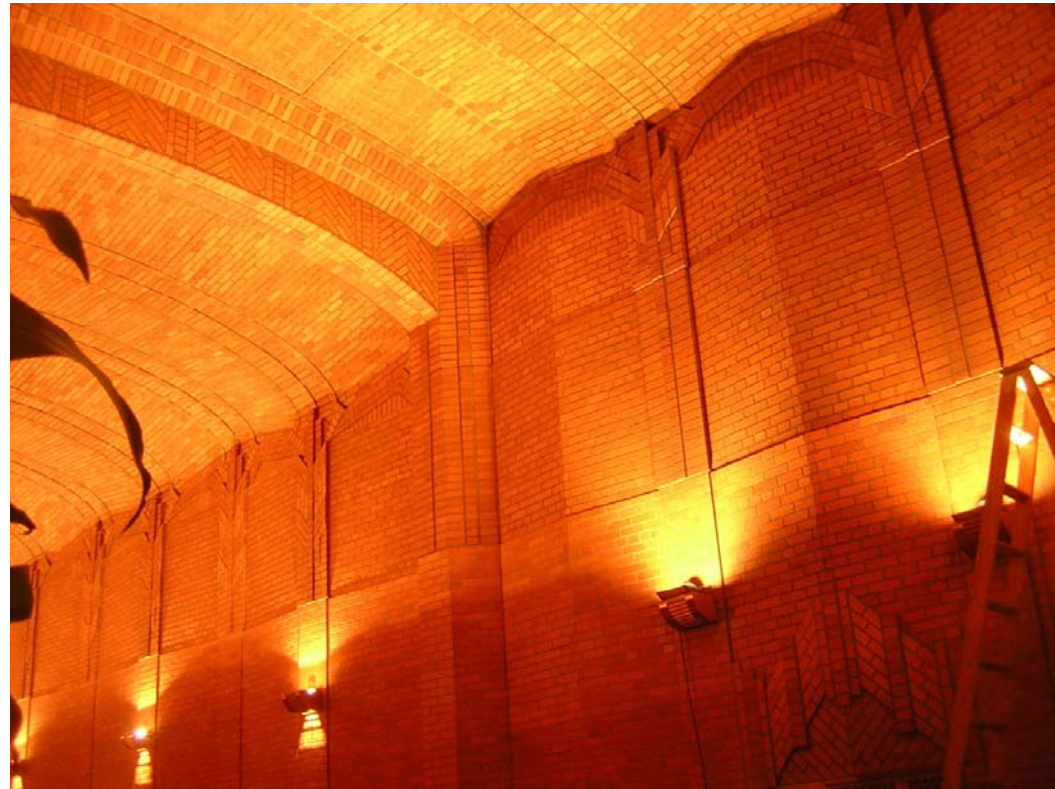
 <p>PAGE: 421 PAL-118-500-Q-B-RC-1Y</p>
 <p>PAGE: 453 PAL-XL-250-HQI-B-S-RB</p>
 <p>PAGE: 411 PAL-88-300/500-Q-B-LY</p>
 <p>PAGE: 433 PAL-422-175-MHMD-B-RC-LY-RB</p>
 <p>PAGE: 401 PAL-LP-150-Q-W-9C</p>



Lighting a Horizontal Surface



60 Hudson Street
Interior Lighting Concepts
RS Lighting Design

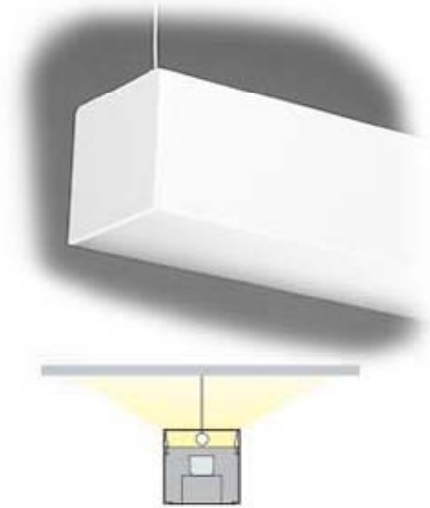


Lighting a Horizontal Surface

Indirect Uplighting



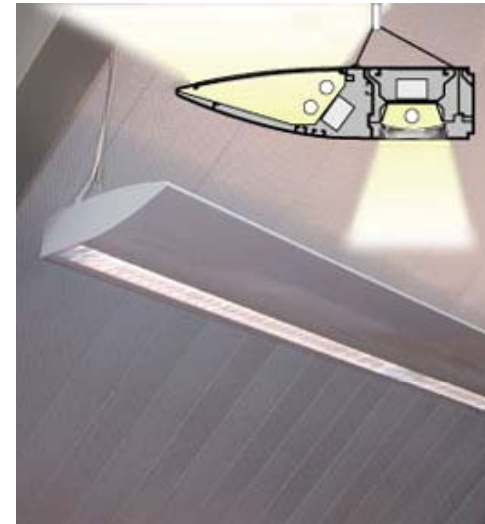
Lighting a Horizontal Surface Linear Uplighting



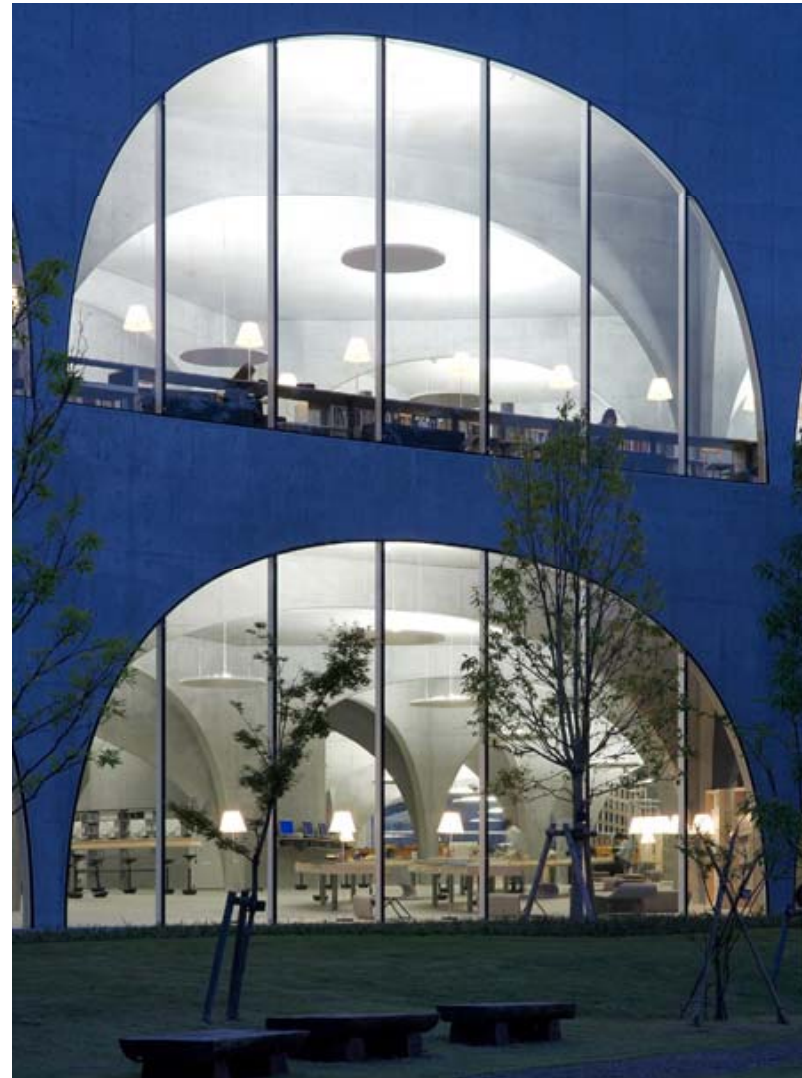
Lighting a Horizontal Surface Linear Uplighting



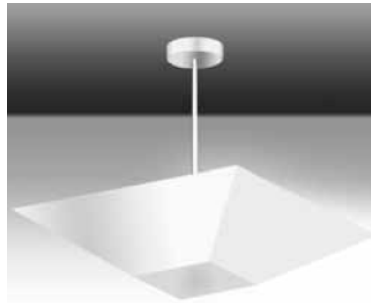
Lighting a Horizontal Surface Linear Uplighting



Lighting a Horizontal Surface



Lighting a Horizontal Surface



Lighting a Horizontal Surface



Light washes and brightens the ceiling while making the room appear larger.



Light washes the wall to brighten the space and create a feeling of definition.



Lighting a Horizontal Surface

Coves – historical reference



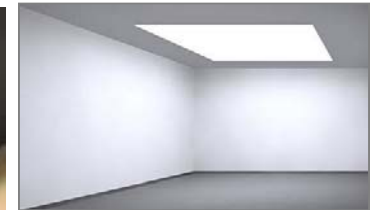
Lighting a Horizontal Surface

Coves – historical reference



Lighting a Horizontal Surface

Coves



Lighting a Horizontal Surface

Coves

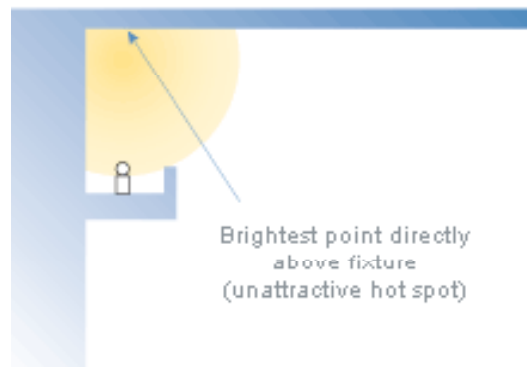


Martin Residence
Architects: Briggs Knowles

Briggs and Knowles based their design of the oculus on traditional Victorian skylights but tweaked it to fit a more modern sensibility and outfitted it with fluorescent tubing to recreate the effect in the evening.

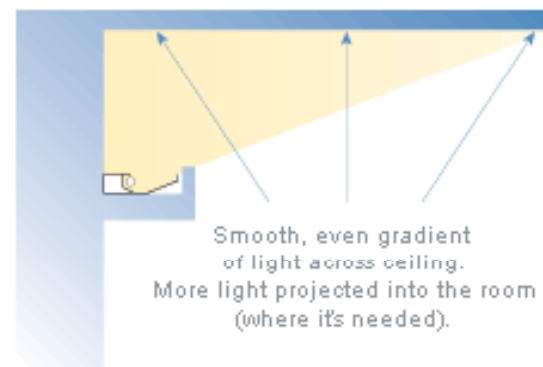
Lighting a Horizontal Surface

Coves



Brightest point directly
above fixture
(unattractive hot spot)

Bare Lamp Channel



Smooth, even gradient
of light across ceiling.
More light projected into the room
(where it's needed).

Cove Channel

Lighting a Horizontal Surface

Series 1530



MINI-STAGGERED CHANNEL® T8

[READ MORE](#)

Series 1540



DOUBLE SIDE MINI-STRIP® T8

[READ MORE](#)

Series 1545



RIGHT ANGLE MINI-STRIP® T8

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Series 1550



SIDE MINI-STRIP® T8

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Series 1575



MULTI SIDE MINI-STRIP® T8

Series 1600



MICRO-STRIP® T5

Series 1610



MICRO-CHANNEL® T5

Series 1620

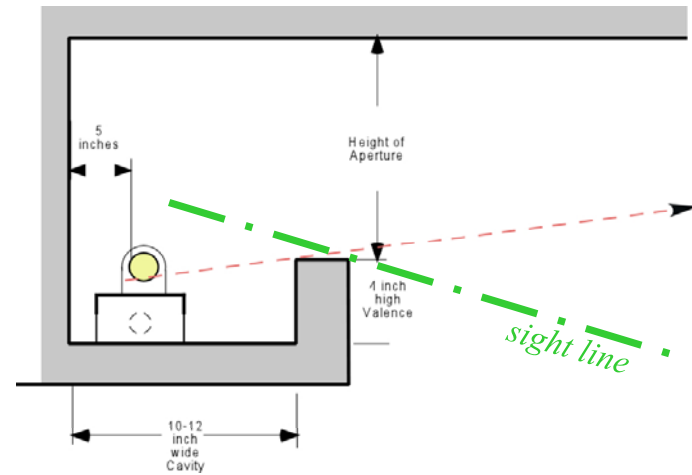
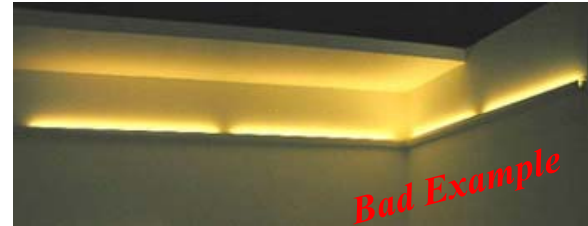
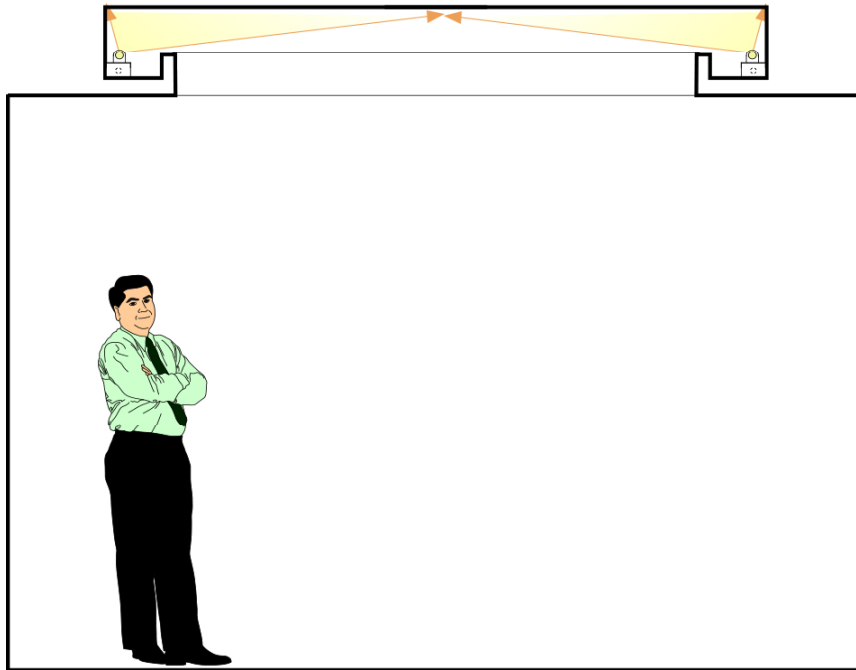


MICRO-STAGGERED CHANNEL® T5
3" Stagger

Bare Lamp Channels

Lighting a Horizontal Surface

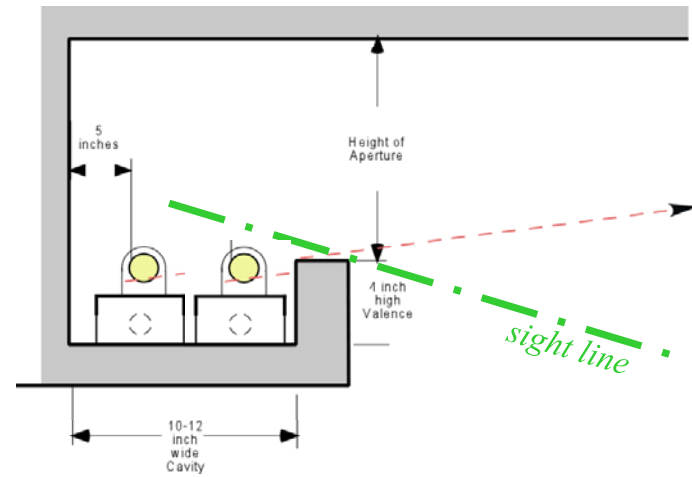
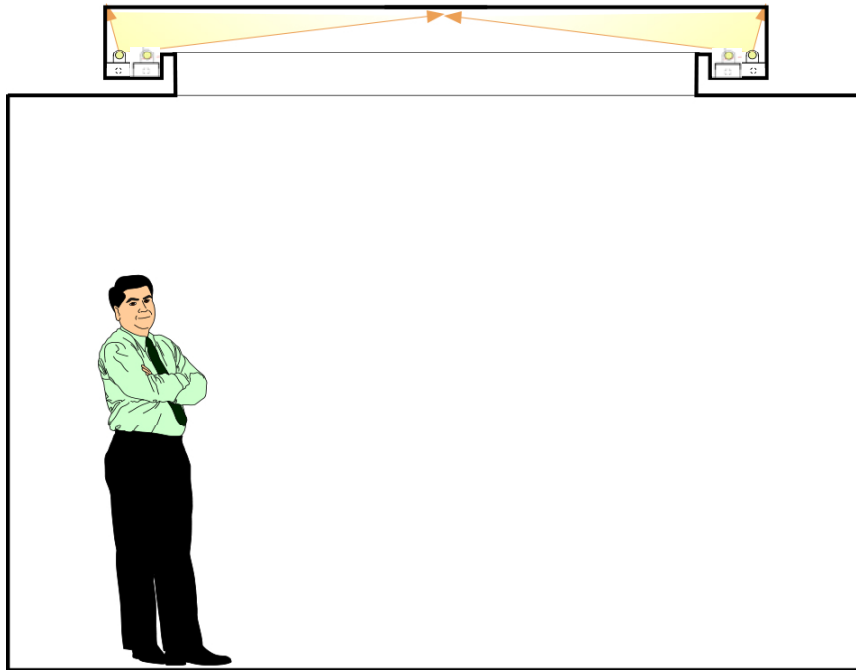
Coves



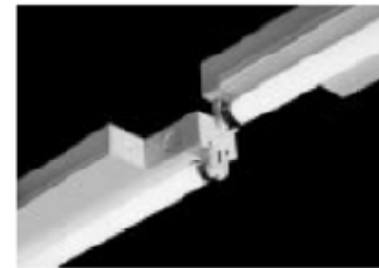
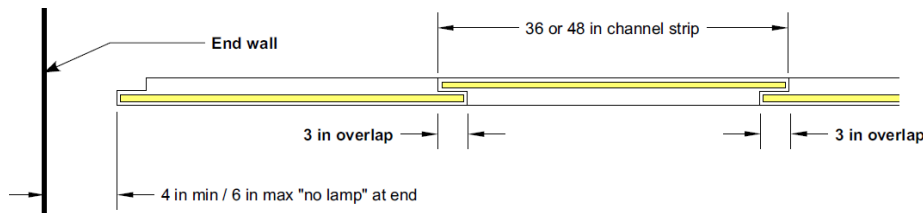
Single Bare Lamp Channel

Lighting a Horizontal Surface

Coves

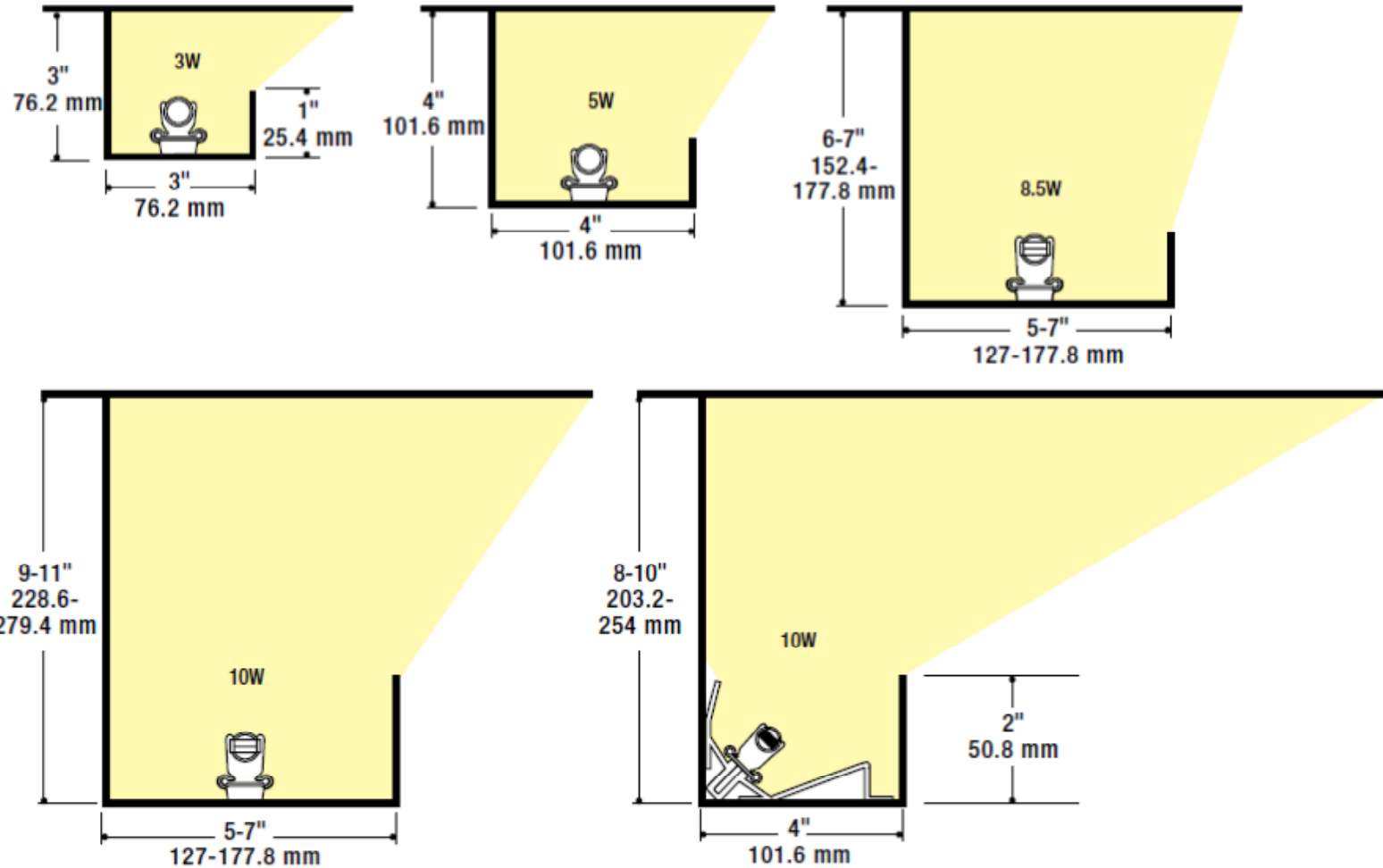


Single Bare Lamp Staggered Channel



Lighting a Horizontal Surface

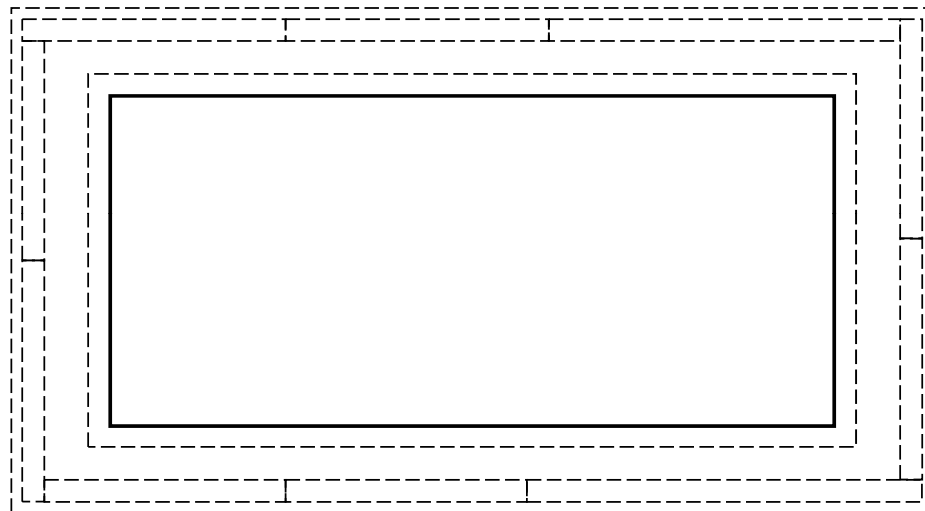
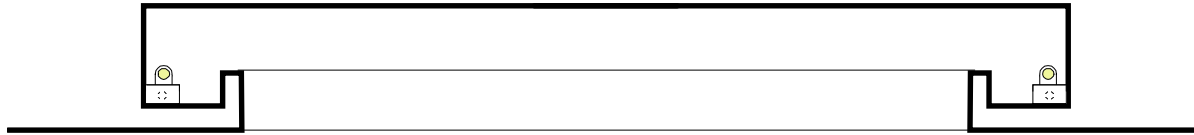
Coves



Low Voltage or LED Strips

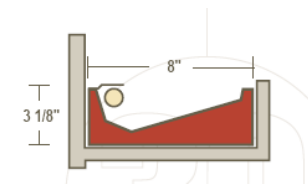
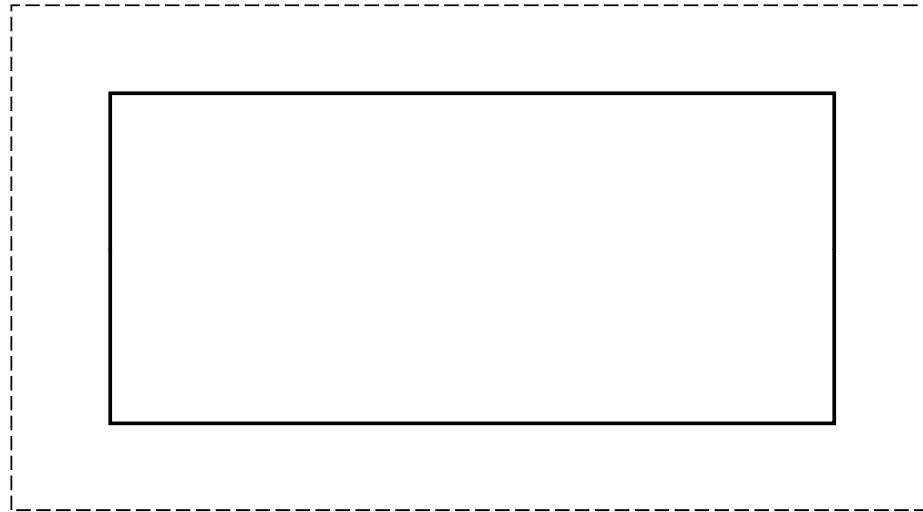
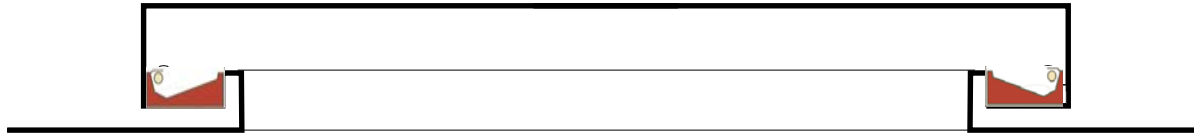
Lighting a Horizontal Surface

Coves



Lighting a Horizontal Surface

Coves

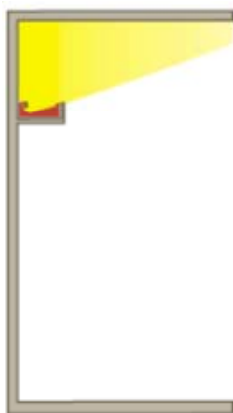
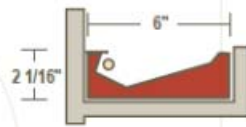
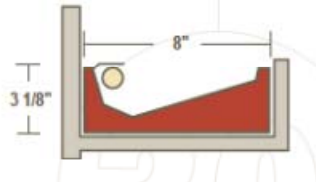


Lighting a Horizontal Surface

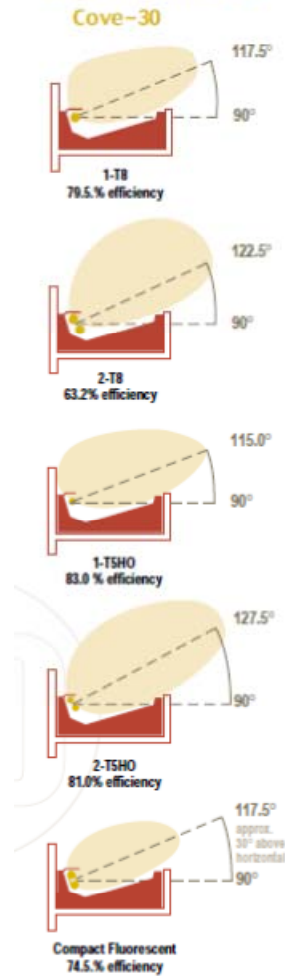
Coves



Cove Channel

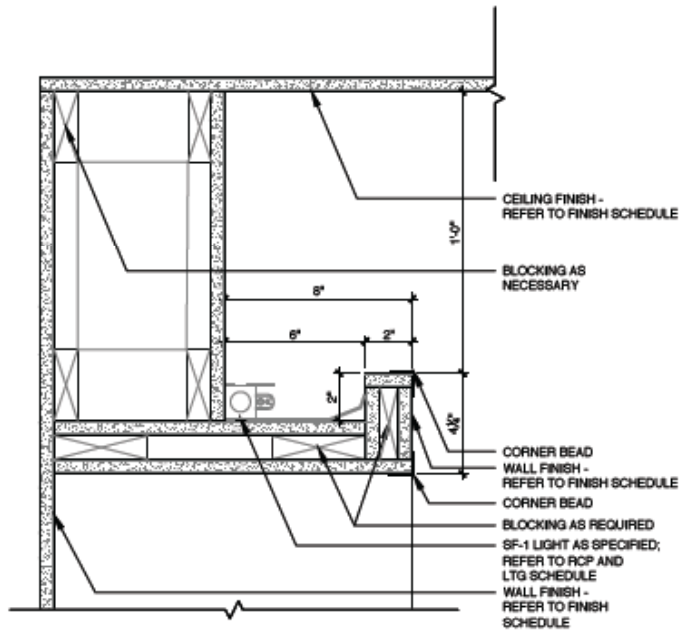


Peak Output Angle

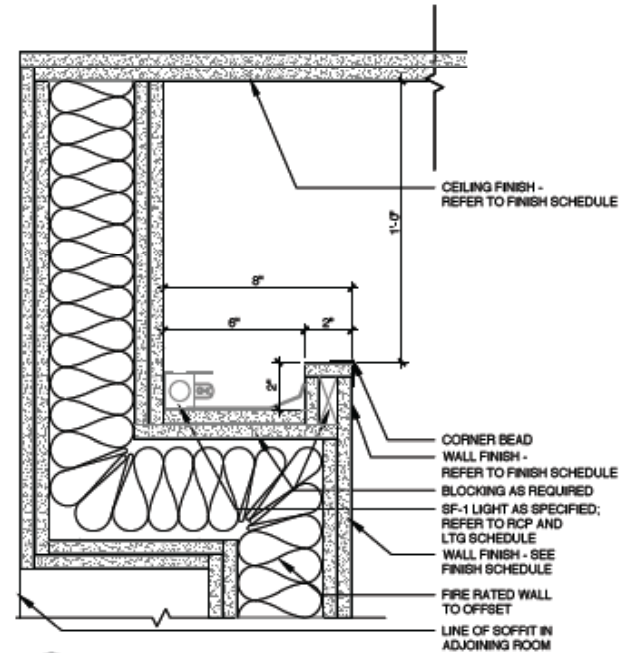


Lighting a Horizontal Surface

Coves



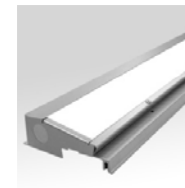
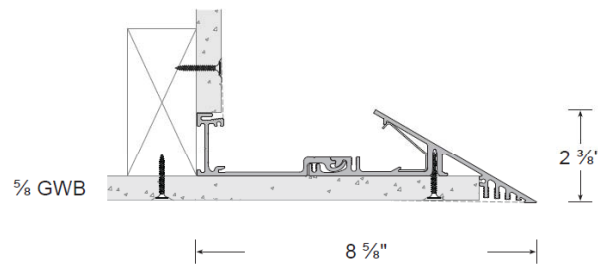
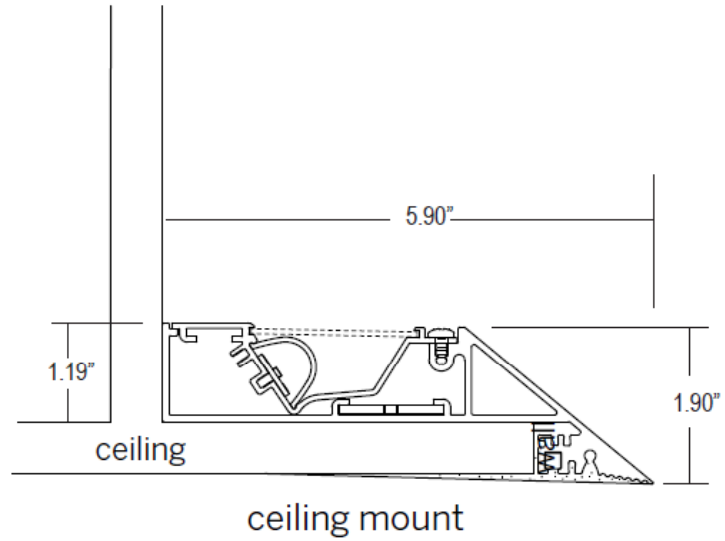
8 GYM COVE LIGHT
3" x 1'-0"



7 GYM COVE LIGHT
3" x 1'-0"

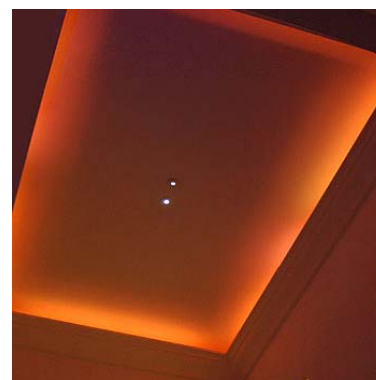
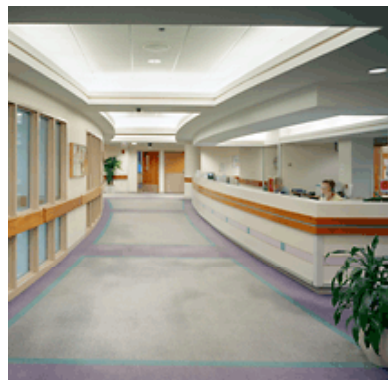
Lighting a Horizontal Surface

Coves



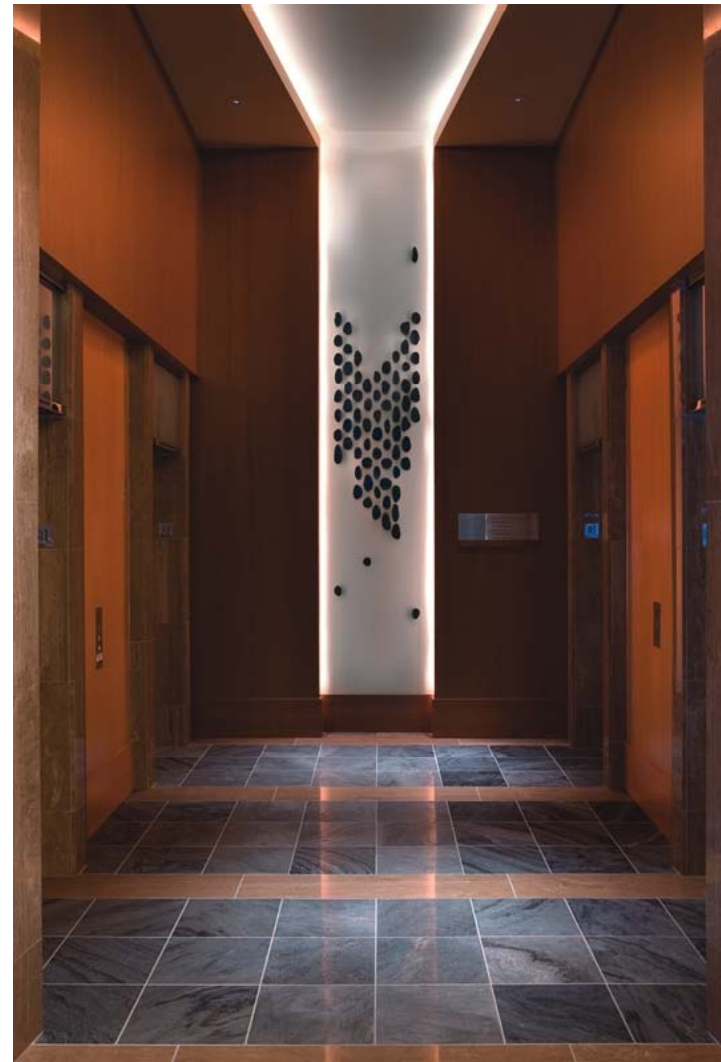
Lighting a Horizontal Surface

Coves



Lighting a Horizontal Surface

Coves



Lighting a Horizontal Surface

Coves



Lighting a Horizontal Surface

Coves



Lighting a Horizontal Surface

Coves



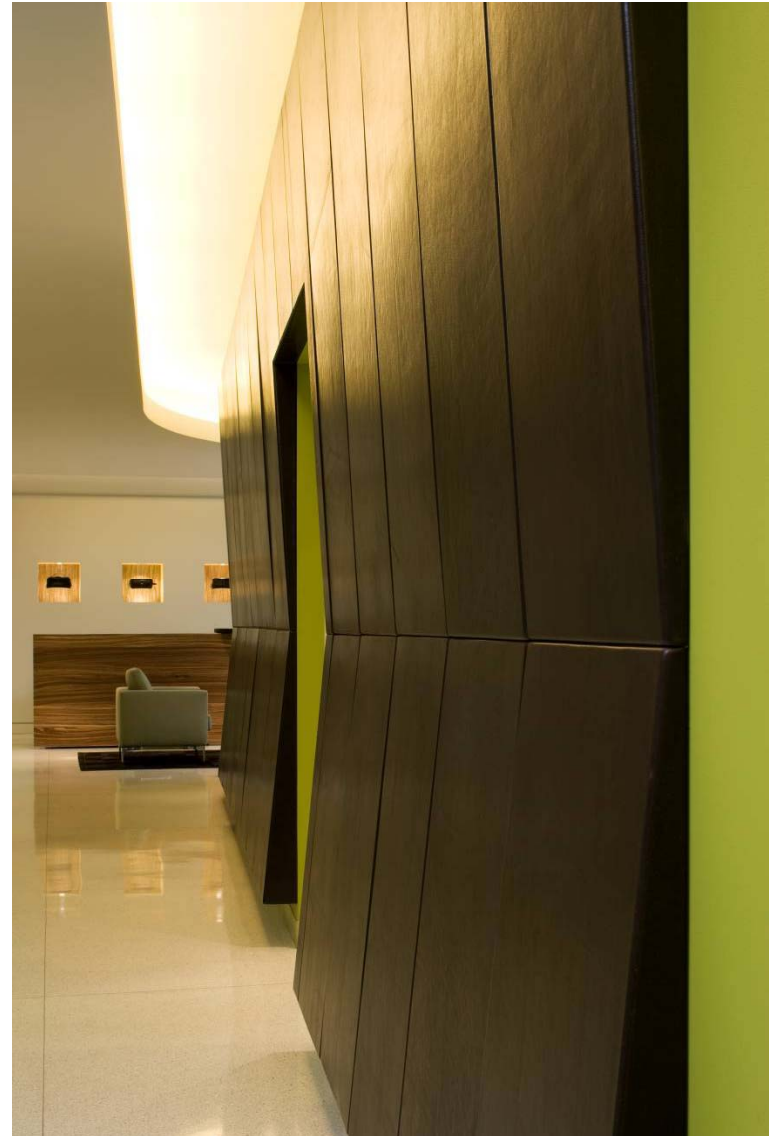
Lighting a Horizontal Surface

Reverse Coves



Lighting a Horizontal Surface

Coves



Lighting a Horizontal Surface

Coves



Lighting a Horizontal Surface

Coves



Lighting a Horizontal Surface

Coves



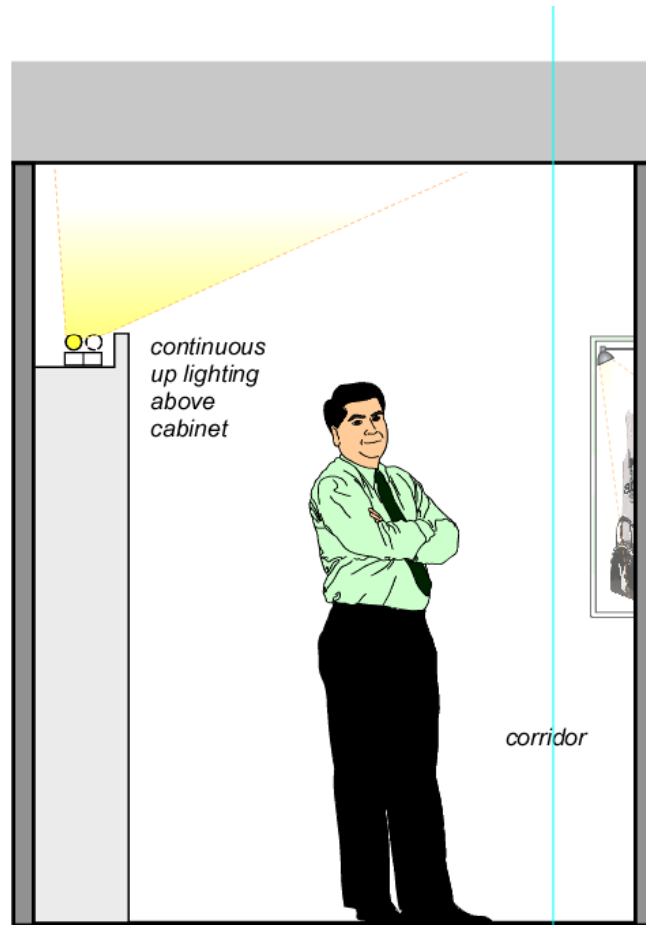
Lighting a Horizontal Surface

Coves



Lighting a Horizontal Surface

Cove above millwork

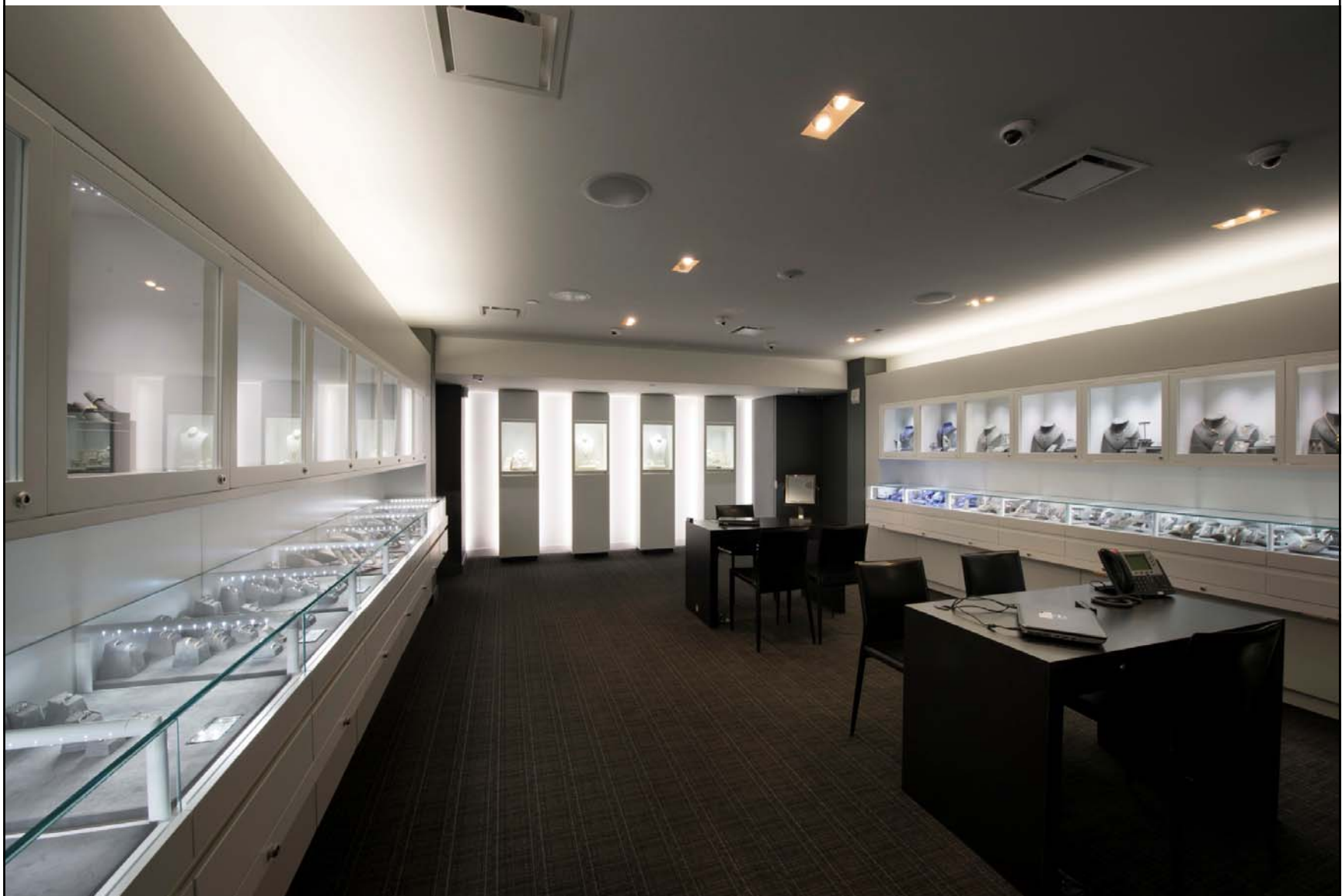


Wall Section - Option C



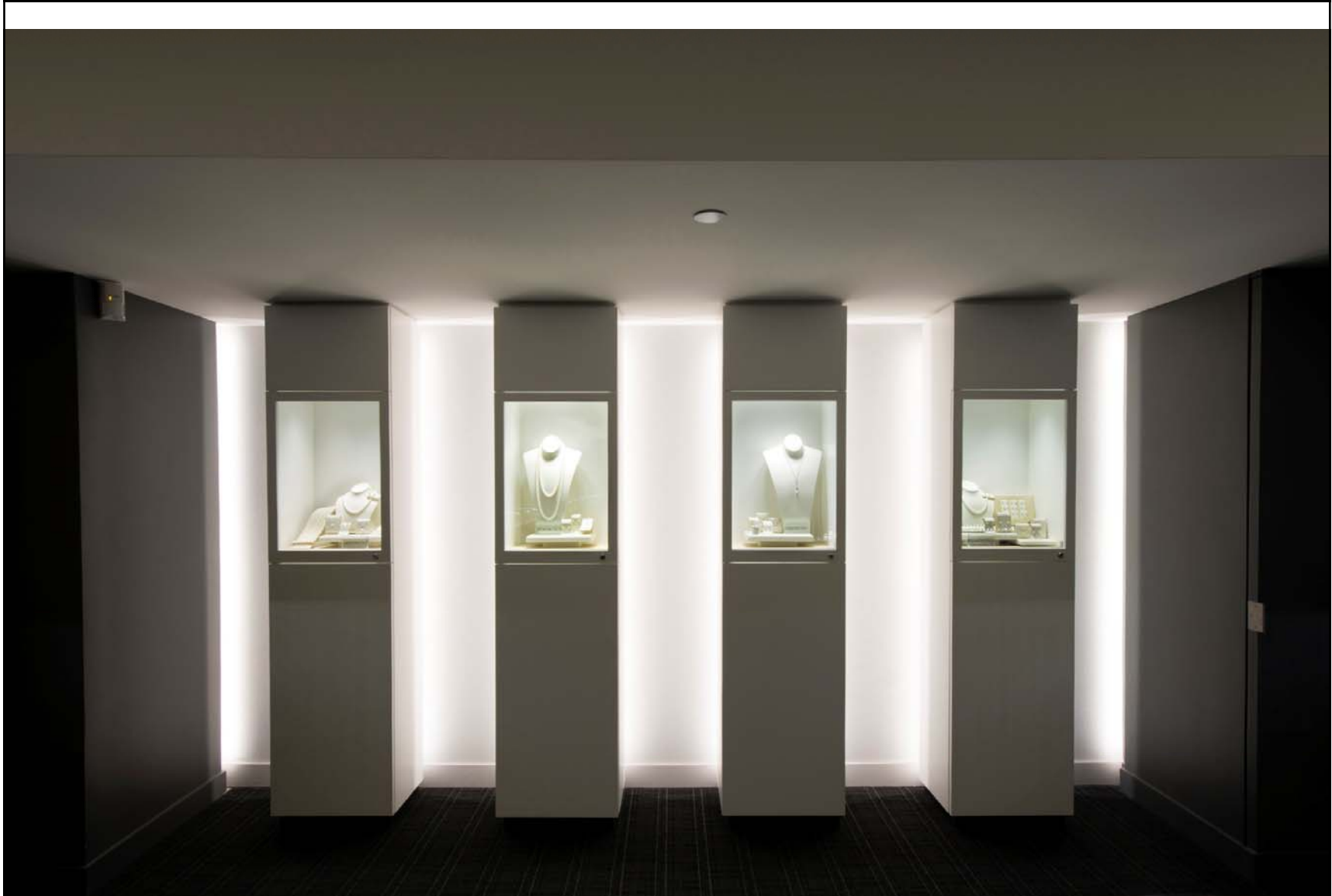
Lighting a Horizontal Surface

Coves



Lighting a Horizontal Surface

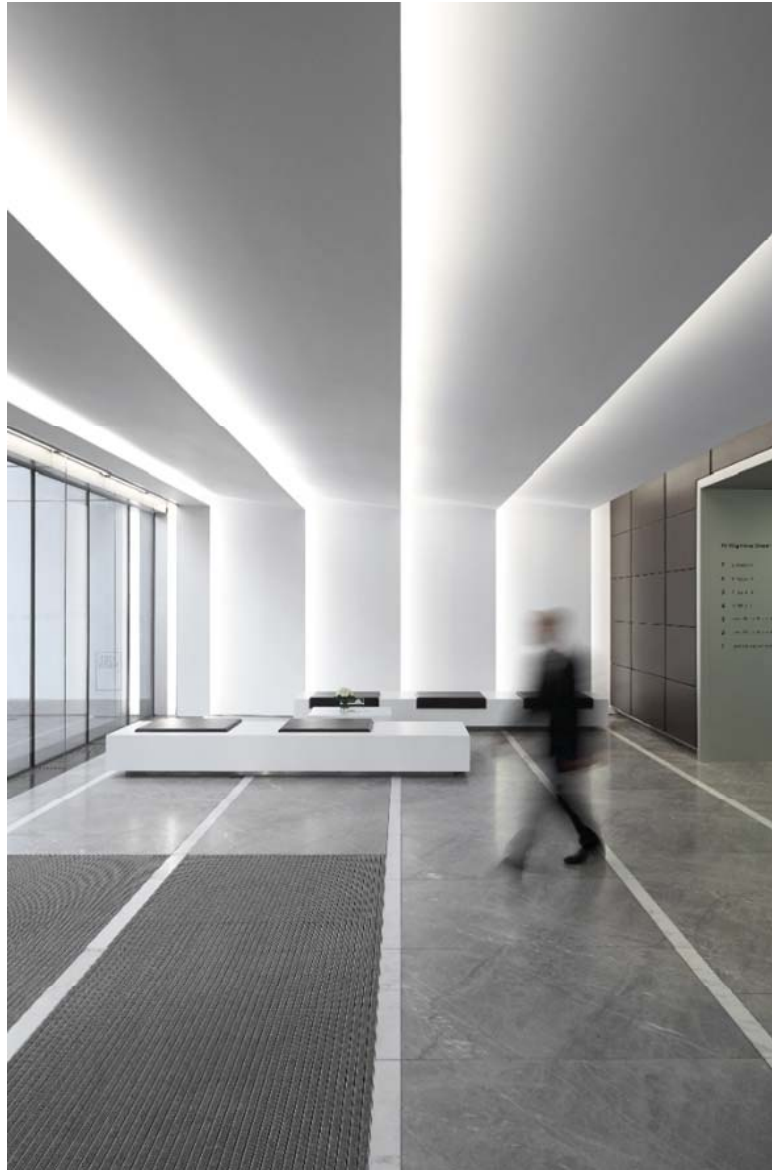
Coves



Lighting a Horizontal Surface



Lighting a Horizontal Surface



Lighting a Horizontal Surface

Coves

