



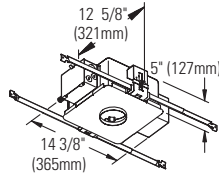
Calculite Evolution Open Reflector Downlight **C3MRD**

Page 1 of 2

3" Aperture, MR16 (12V)

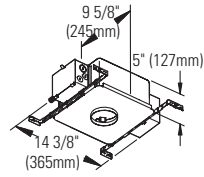
Non-IC Frame:

C3LV
C3LVE1
C3LVE2



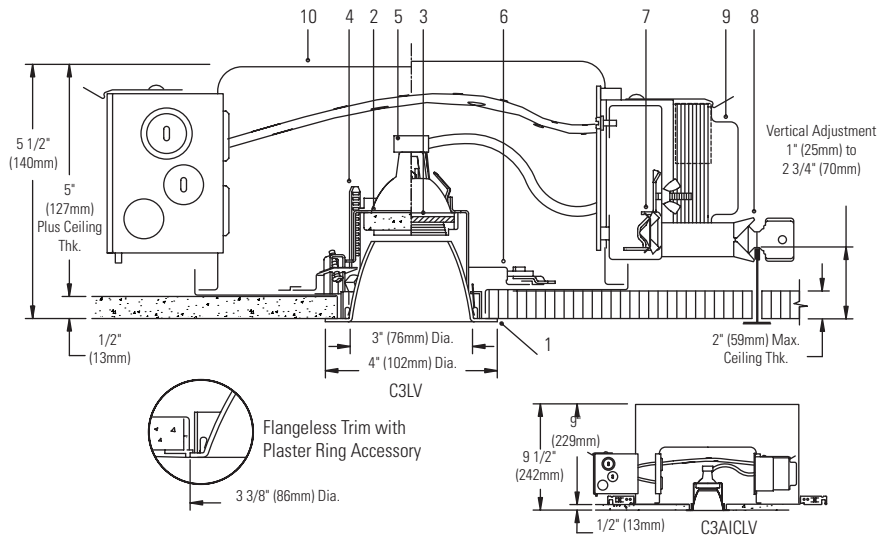
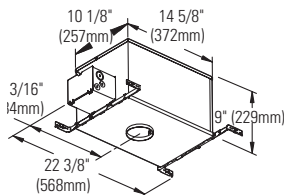
Non-IC AirSeal Frame:

C3ALV
C3ALVE1
C3ALVE2



IC AirSeal Frame:

C3AICLV
C3AICLVE1



Ceiling Cutout: 3 1/2" (130mm) Dia.

For Complete Fixture Order: Trim Kit + Frame-In Kit. Each Sold Separately.

Trim Kit				Frame-In Kit		Lamp*	
Cone Finish	White Flange	Polished Flange	Flangeless	C3LV	Non-IC	Magnetic 120/277V	42W-65W MR16 (12V)
Clear	C3MRD CLW	C3MRD CLP	C3MRD CLFT	C3LVE1	Non-IC	Electronic 120V	20W-65W MR16 (12V)
Comfort Clear Diffuse	C3MRD CCDW	C3MRD CCDP	C3MRD CCDF	C3LVE2	Non-IC	Electronic 277V	20W-65W MR16 (12V)
Champagne Bronze	C3MRD CCZW	C3MRD CCZP	C3MRD CCZFT	C3ALV	Non-IC AirSeal®	Magnetic 120/277V	42W-65W MR16 (12V)
Gold	C3MRD GDW	C3MRD GDP	C3MRD GDFT	C3ALVE1	Non-IC AirSeal®	Electronic 120V	20W-65W MR16 (12V)
Matte White	C3MRD WHW	N/A	C3MRD WHFT	C3ALVE2	Non-IC AirSeal®	Electronic 277V	20W-65W MR16 (12V)
Specular Black	C3MRD BKW	C3MRD BKP	C3MRD BKFT	C3AICLV	IC AirSeal®	Magnetic 120V	20W-50W MR16 (12V)
				C3AICLVE1	IC AirSeal®	Electronic 120V	20W-50W MR16 (12V)

Note: Magnetic not recommended for residential or noise sensitive areas.

Features

- Trim Kit Aperture Cone:** Low brightness; 0.040" aluminum, anodized; 50° visual cut-off to lamp and lamp image. Hinged, and snaps on for easy tool-less installation. Self-flange in painted white or aperture matching polished flange. Flangeless trim used with Plaster Trim Ring accessory. Interchangeable with other 3" Evolution trims.
- Lamp Support:** Die-form aluminum with knurled surface for easy gripping during relamping. Spring tension clips hold lamp and lens and allow fast snap-in, snap-out relamping. Matte black finish. Accepts up to two 2" diameter accessories.
- Cover Glass:** High temperature, soft focus lens.
- Thick Ceiling Ready Brackets:** Die-form steel, matte black finish. Adjust trim kit vertically to accommodate up to 2" thick ceiling, lockable.
- Lampholder:** Procelain bi-pin socket. Pre-wired with No.18 AWG PTFE leads.
- Horizontal Adjustment Mechanism:** Built-in ready for adjustable trim, matte black finish.
- Frame Vertical Adjustment Mechanism (C3LV):** Accommodates mounting to virtually any ceiling system using pre-installed mounting bars, or 1/2" EMT tubing (by others). Single locking features secures all adjustments. Alignment holes and markings allow fixture to be pre-set prior to installation. Final adjustment can be made from below inside fixture.
- Mounting Bars (C3LV):** Galvanized steel, 0.048"; pre-installed telescoping bars extend from 20" to 30" long and lock securely into position. Built-in locking tabs provide positive attachment to common T-bar systems. Self-centering feature simplified installation in 24" O.C. grid systems. Attaches to steel or wood joists without accessories.
- Transformer:** Replaceable from below. **Magnetic:** 120V/277V 60 Hz. dual-voltage, core & coil. **Note:** Magnetic not recommended for residential or noise sensitive areas. **Electronic:** 120V or 277V 50/60 Hz., regulated lamp voltage, HPF, EMI and circuit protections, thermal auto-reset, quiet operation.

10. Frame-In Kit: See Frame-In Kit specification sheets for more information.

Non-IC and Non-IC AirSeal® - Insulation must be kept 3" away from any parts of the luminaire and must not be placed above luminaire in a manner which will entrap heat. **IC AirSeal®** - Luminaire may be in direct contact with thermal insulation.

Options and Accessories

2" dia. Color Filters/Specialty filters: See ADF2/AF2 specification sheets

2" Dia. Louver: AL2HC

Plaster Trim Ring (use with flangeless trim): CA3FMR

Chicago Plenum: Consult Factory

Labels

U.L. (Suitable For Damp Locations), I.B.E.W.

*Lamp wattage restriction for Non-IC: 65W for up to 1" thick ceiling, 50W for ceiling thickness greater than 1" (up to 2").

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

Lightolier a Genlyte company www.lightolier.com
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.
© 2011 Genlyte Group LLC • F0711

LIGHTOLIER®



Calculite Evolution Open Reflector Downlight **C3MRD**

Page 2 of 2

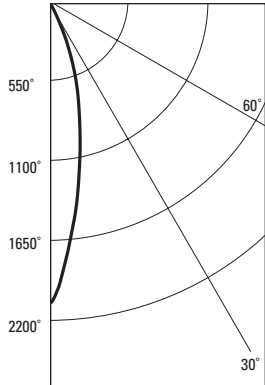
3" Aperture, MR16 (12V)

37W MR16 IR - 40° FLOOD

SYLVANIA HALOGEN LAMP, LUMEN RATING = 840 LMS, 120V ELECTRONIC TRANSFORMER

CL
Reflector
Finish

CANDLEPOWER DISTRIBUTION



** EFFICIENCY = 68.7% **
SC = .4

ANGLE LUMENS MEAN CP

ANGLE	LUMENS	MEAN CP
0	2084	159
5	1685	
10	1228	
15	839	245
20	543	
25	280	140
30	107	
35	40	31
40	10	
45	0	2
50	0	0
55	0	0
60	0	0
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

LUMINANCE SUMMARY CD. / SQ. M.

ANGLE	MEAN CD/SQ M
45	0
55	0
65	0
75	0
85	0

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	543	64.75	94.30
0-40	574	68.44	99.67
0-60	576	68.67	100.00
0-90	576	68.67	100.00
40-90	1	0.23	0.33
60-90	0	0.00	0.00
90-180	0	0.00	0.00
0-180	576	68.67	100.00

Coefficients of Utilization

CEILING	80%				70%				50%				30%			
	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10
WALL																
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%															
0	.82	.82	.82	.82	.80	.80	.76	.76	.73	.73	.69					
1	.80	.78	.77	.76	.77	.75	.74	.73	.72	.71	.67					
2	.77	.75	.74	.72	.74	.71	.72	.70	.70	.68	.66					
3	.75	.73	.71	.69	.72	.69	.70	.68	.69	.66	.65					
4	.74	.71	.68	.67	.70	.66	.69	.65	.67	.65	.63					
5	.72	.68	.66	.64	.68	.64	.67	.63	.66	.63	.62					
6	.70	.67	.64	.63	.66	.62	.65	.62	.64	.61	.61					
7	.68	.65	.62	.61	.64	.60	.64	.60	.63	.60	.59					
8	.67	.63	.61	.59	.62	.59	.62	.59	.61	.58	.58					
9	.65	.61	.59	.57	.61	.57	.61	.57	.60	.57	.56					
10	.64	.60	.58	.56	.60	.56	.59	.56	.59	.56	.55					

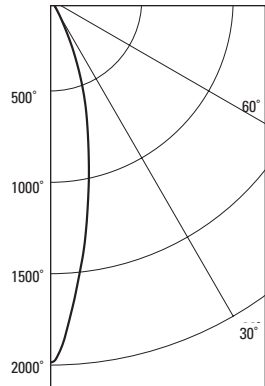
LUMINAIRE INPUT WATTS = 38

50W MR16 IR - 40° FLOOD

GE HALOGEN LAMP, LUMEN RATING = 800 LMS, 120V ELECTRONIC TRANSFORMER

CL
Reflector
Finish

CANDLEPOWER DISTRIBUTION



** EFFICIENCY = 68.7% **
SC = .4

ANGLE LUMENS MEAN CP

ANGLE	LUMENS	MEAN CP
0	1985	152
5	1605	
10	1170	
15	799	233
20	518	
25	266	133
30	102	
35	38	30
40	9	
45	0	2
50	0	0
55	0	0
60	0	0
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

LUMINANCE SUMMARY CD. / SQ. M.

ANGLE	MEAN CD/SQ M
45	0
55	0
65	0
75	0
85	0

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	518	64.75	94.30
0-40	547	68.44	99.67
0-60	549	68.67	100.00
0-90	549	68.67	100.00
40-90	1	0.23	0.33
60-90	0	0.00	0.00
90-180	0	0.00	0.00
0-180	549	68.67	100.00

Coefficients of Utilization

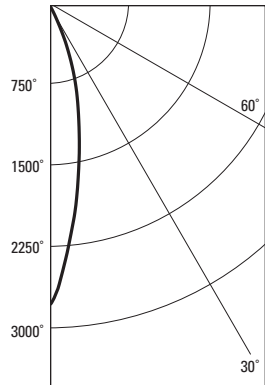
CEILING	80%				70%				50%				30%			
	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10
WALL																
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%															
0	.82	.82	.82	.82	.80	.80	.76	.76	.73	.73	.69					
1	.80	.78	.77	.76	.77	.75	.74	.73	.72	.71	.67					
2	.77	.75	.74	.72	.74	.71	.72	.70	.70	.68	.66					
3	.75	.73	.71	.69	.72	.69	.70	.68	.69	.66	.65					
4	.74	.71	.68	.67	.70	.66	.69	.65	.67	.65	.63					
5	.72	.68	.66	.64	.68	.64	.67	.63	.66	.63	.62					
6	.70	.67	.64	.63	.66	.62	.65	.62	.64	.61	.61					
7	.68	.65	.62	.61	.64	.60	.64	.60	.63	.60	.59					
8	.67	.63	.61	.59	.62	.59	.62	.59	.61	.58	.58					
9	.65	.61	.59	.57	.61	.57	.61	.57	.60	.57	.56					
10	.64	.60	.58	.56	.60	.56	.59	.56	.59	.56	.55					

LUMINAIRE INPUT WATTS = 51

50W MR16 IR - 40° FLOOD

SYLVANIA HALOGEN LAMP, LUMEN RATING = 1125 LMS, 120V ELECTRONIC TRANSFORMER

CANDLEPOWER DISTRIBUTION



** EFFICIENCY = 68.8% **
SC = .4

ANGLE LUMENS MEAN CP

ANGLE	LUMENS	MEAN CP
0	2792	214
5	2258	
10	1646	
15	1125	328
20	729	
25	375	188
30	144	
35	55	42
40	14	
45	0	3
50	0	0
55	0	0
60	0	0
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

LUMINANCE SUMMARY CD. / SQ. M.

ANGLE	MEAN CD/SQ M
45	0
55	0
65	0
75	0
85	0

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	729	64.82	94.21
0-40	771	68.56	99.65
0-60	774	68.80	100.00
0-90	774	68.80	100.00
40-90	2	0.24	0.35
60-90	0	0.00	0.00
90-180	0	0.00	0.00
0-180	774	68.80	100.00

Coefficients of Utilization

CEILING	80%				70%				50%				30%			
	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10
WALL																
RCR	Zonal Cavity Method - Effective Floor Cavity Reflectance = 20%															
0	.82	.82	.82	.82	.80	.80	.76	.76	.73	.73	.69					
1	.80	.78	.77	.76	.77	.75	.74	.73	.72	.71	.67					
2	.77	.75	.74	.72	.74	.71	.72	.70	.70	.68	.66					
3	.75	.73	.71	.69	.72	.69	.70	.68	.69	.66	.65					
4	.74	.71	.68	.67	.70	.66	.69	.65	.67	.65	.63					
5	.72	.68	.66	.64	.68	.64	.67	.63	.66	.63	.62					
6	.70	.67	.64	.63	.66	.62	.65	.62	.64	.61	.61					
7	.68	.65	.62	.61	.64	.60	.64	.60	.63	.60	.59					
8	.67	.63	.61	.59	.62	.59	.62	.59	.61	.58	.58					
9	.65	.61	.59	.57	.61	.57	.61	.57	.60	.57	.56					
10	.64	.60	.58	.56	.60	.56	.59	.56	.59	.56	.55					

LUMINAIRE INPUT WATTS = 51

Job Information

Type:

Lightolier a Genlyte company

www.lightolier.com

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.

© 2011 Genlyte Group LLC • F0711

LIGHTOLIER