

**Ceiling Cutout: 105mm (4 1/8") Dia.**

Reflector Trim	Installation Ring	Gear Harness	Lamp Data
<b>C3MRGDEXP</b> Etched white interior and flange	<b>C3XRM</b>	<b>C3TKEU50</b> <b>C3LHAGU53</b> (less transformer)	MR16 12V GU5.3 QR-CB51 12V GU5.3 50W Max

**Features**

- Glasslite:** One piece borosilicate glass with integral flange, etched interior and white ceramic coated exterior. Etched white cone finish emits a subtle glow. Hinged, and snaps on for easy tool-less installation.
- Lamp Support:** Die-formed 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 accessories.
- Cover Glass:** High temperature, clear lens.
- Gear Harness:** Electronic low voltage transformer with lamp socket and wiring harness. ORDER SEPARATELY. See separate specification sheet for details. NOTE: Also available without transformer; item number C3LHAGU53.
- Installation Ring:** Cast aluminum ring is painted matte white and has two mounting springs, made from nickel plated spring steel. Unique tooth design ensures adequate bite into various building mediums with thicknesses between 12 mm and 38 mm. Installation Ring has built in Rotational Stop, made from thermally resistant injection molded plastic, allowing trim 365° of rotation. ORDER SEPARATELY. See separate Installation Ring specification sheet for more details.
- Inner Ring:** Cast aluminum; Twist-locks into place to secure reflector trim. Allows for quick tool-less installation and removal of reflector trims. Has built in screw for rotational locking. Use Allen Key provided with trim to lock fixture once in desired position, allowing for consistent re-lamping.

**Accessories**

- Color Filters:** ADF2 series (see ADF2 specification sheet)
- Specialty Filters:** AF2 series (see AF2 series specification sheets)
- Louvers:** AL2HC

**Certifications and Ratings**

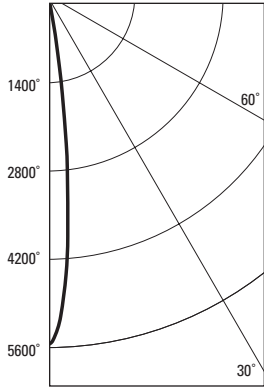


Job Information	Type:
<b>Job Name:</b>	
<b>Cat. No.:</b>	
<b>Lamp(s):</b>	
<b>Notes:</b>	

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### 50W MR16 - 15° SPOT GE HALOGEN LAMP, LUMEN RATING = 750 LMS, 120V ELECTRONIC TRANSFORMER

CANDLEPOWER DISTRIBUTION



ANGLE LUMENS	MEAN CP
0	5551
5	3854
10	1184
15	310
20	141
25	48
30	22
35	8
40	5
45	2
50	1
55	2
60	1
65	0
70	0
75	0
80	0
85	0
90	0

LUMINANCE SUMMARY CD. / SQ. M.

ANGLE	MEAN CD/SQ M
45	640
55	750
65	104
75	170
85	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	512	68.32	97.99
0-40	518	66.20	99.25
0-60	522	69.64	99.89
0-90	522	69.72	100.00
40-90	3	0.52	0.75
60-90	0	0.08	0.11
90-180	0	0.00	0.00
0-180	522	69.72	100.00

Coefficients of Utilization

CEILING	WALL	70	80%				70%				50%				30%			
			50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	50
RCR																		
Zonal Cavity Method - Effective Floor Cavity Reflectance =																		
0	.83	.83	.83	.83	.81	.81	.77	.77	.74	.74	.70	.70	.69	.69	.66	.66	.65	.65
1	.81	.80	.79	.78	.79	.77	.76	.75	.73	.73	.71	.71	.69	.69	.66	.66	.65	.65
2	.79	.79	.76	.75	.76	.74	.74	.73	.73	.71	.71	.69	.69	.66	.66	.65	.65	.65
3	.78	.76	.74	.73	.75	.72	.73	.71	.72	.70	.70	.68	.68	.66	.66	.65	.65	.65
4	.77	.74	.72	.71	.74	.70	.72	.70	.71	.69	.69	.67	.67	.66	.66	.65	.65	.65
5	.75	.73	.71	.69	.72	.69	.71	.69	.70	.68	.68	.66	.66	.66	.66	.65	.65	.65
6	.74	.72	.70	.68	.71	.68	.70	.68	.70	.68	.68	.66	.66	.66	.66	.65	.65	.65
7	.73	.71	.69	.67	.70	.67	.69	.67	.69	.67	.67	.66	.66	.66	.66	.65	.65	.65
8	.73	.70	.68	.67	.69	.66	.69	.66	.69	.66	.66	.66	.66	.66	.66	.65	.65	.65
9	.72	.69	.67	.66	.68	.66	.68	.66	.68	.66	.66	.66	.66	.66	.66	.65	.65	.65
10	.71	.68	.66	.65	.68	.65	.67	.65	.67	.65	.65	.65	.65	.65	.65	.65	.65	.65

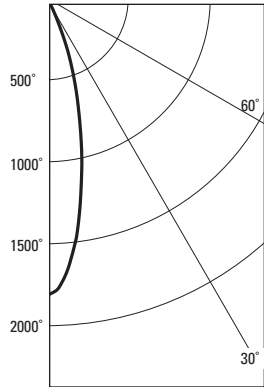
\*\* EFFICIENCY = 69.7% \*\*  
SC = .2

CERTIFIED TEST REPORT NO. 2724FR DATE: SEP 7, 2004  
COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*\*

LUMINAIRE INPUT WATTS = 51

### 50W MR16 - 25° NARROW FLOOD GE HALOGEN LAMP, LUMEN RATING = 800 LMS, 120V ELECTRONIC TRANSFORMER

CANDLEPOWER DISTRIBUTION



ANGLE LUMENS	MEAN CP
0	1816
5	1629
10	1213
15	792
20	460
25	194
30	74
35	27
40	8
45	5
50	4
55	3
60	3
65	2
70	2
75	1
80	1
85	0
90	0

LUMINANCE SUMMARY CD. / SQ. M.

ANGLE	MEAN CD/SQ M
45	1483
55	1270
65	1241
75	1079
85	351

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	487	60.97	93.72
0-40	509	63.64	97.83
0-60	516	64.55	99.23
0-90	520	65.05	100.00
40-90	11	1.41	2.17
60-90	4	0.50	0.77
90-180	0	0.00	0.00
0-180	520	65.05	100.00

Coefficients of Utilization

CEILING	WALL	70	80%				70%				50%				30%			
			50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	50
RCR																		
Zonal Cavity Method - Effective Floor Cavity Reflectance =																		
0	.77	.77	.77	.77	.76	.76	.72	.72	.69	.69	.65	.65	.65	.65	.64	.64	.63	.63
1	.75	.74	.73	.72	.73	.71	.70	.69	.68	.67	.64	.64	.62	.62	.62	.62	.61	.61
2	.73	.71	.70	.68	.70	.67	.68	.66	.66	.64	.63	.63	.61	.61	.61	.61	.60	.60
3	.71	.69	.67	.65	.68	.65	.66	.64	.65	.63	.63	.61	.61	.61	.61	.60	.60	.60
4	.70	.67	.64	.63	.66	.62	.65	.62	.64	.61	.61	.60	.60	.60	.60	.59	.59	.58
5	.68	.65	.62	.60	.64	.60	.63	.60	.62	.59	.58	.58	.57	.57	.57	.56	.56	.56
6	.66	.63	.61	.59	.62	.59	.62	.59	.61	.57	.57	.57	.56	.56	.56	.55	.55	.55
7	.65	.61	.59	.57	.61	.57	.60	.57	.60	.56	.56	.56	.55	.55	.55	.54	.54	.54
8	.63	.60	.57	.56	.59	.56	.59	.56	.59	.55	.55	.55	.54	.54	.54	.53	.53	.53
9	.62	.58	.56	.54	.58	.54	.57	.54	.57	.54	.54	.54	.53	.53	.53	.53	.53	.53
10	.61	.57	.55	.53	.57	.53	.56	.53	.56	.53	.53	.53	.52	.52	.52	.52	.52	.52

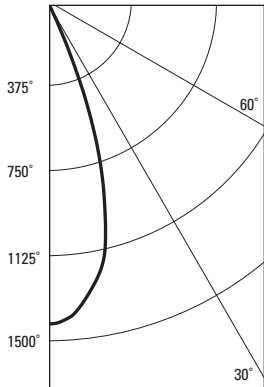
\*\* EFFICIENCY = 65.1% \*\*  
SC = .5

CERTIFIED TEST REPORT NO. 2817FR DATE: SEP 5, 2004  
COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*\*

LUMINAIRE INPUT WATTS = 51

### 50W MR16 - 40° FLOOD GE HALOGEN LAMP, LUMEN RATING = 800 LMS, 120V ELECTRONIC TRANSFORMER

CANDLEPOWER DISTRIBUTION



ANGLE LUMENS	MEAN CP
0	1425
5	1388
10	1256
15	1006
20	616
25	182
30	42
35	17
40	8
45	4
50	3
55	2
60	2
65	1
70	0
75	0
80	0
85	0
90	0

LUMINANCE SUMMARY CD. / SQ. M.

ANGLE	MEAN CD/SQ M
45	1164
55	864
65	616
75	0
85	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	523	65.48	96.34
0-40	537	67.14	98.77
0-60	542	67.82	98.77
0-90	543	67.97	100.00
40-90	6	0.83	1.23
60-90	1	0.16	0.23
90-180	0	0.00	0.00
0-180	543	67.97	100.00

Coefficients of Utilization

CEILING	WALL	70	80%				70%				50%				30%			
			50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	50
RCR																		
Zonal Cavity Method - Effective Floor Cavity Reflectance =																		
0	.81	.81	.81	.81	.79	.79	.76	.76	.72	.72	.66	.66	.66	.66	.65	.65	.64	.64
1	.79	.78	.77	.75	.76	.74	.73	.72	.71	.70	.67	.67	.65	.65	.65	.64	.64	.64
2	.76	.75	.73	.71	.73	.71	.71	.69	.69	.68	.66	.66	.64	.64	.64	.64	.63	.63
3	.75	.72	.70	.68	.71	.68	.70	.67	.68	.66	.64	.64	.63	.63	.63	.63	.62	.62
4	.73	.70	.68	.66	.69	.66	.68	.65	.67	.64	.63	.63	.62	.62	.62	.62	.61	.61
5	.71	.68	.65	.64	.67	.63	.66	.63	.65	.62	.61	.61	.60	.60	.60	.60	.59	.59
6	.70	.66	.64	.62	.66	.62	.65	.62	.64	.61	.60	.60	.59	.59	.59	.58	.58	.58
7	.68	.64	.62	.60	.64	.60	.63	.60	.63	.60	.59	.59	.58	.58	.58	.57	.57	.57
8	.67	.63	.60	.59	.62	.59	.62	.58	.61	.58	.57	.57	.56	.56	.56	.55	.55	.55
9	.65	.61	.59	.57	.61	.57	.60	.57	.60	.57	.56	.56	.55	.55	.55	.54	.54	.54
10	.64	.60	.58	.56	.60	.56	.59	.56	.59	.56	.55	.55	.54	.54	.54	.53	.53	.53

\*\* EFFICIENCY = 68% \*\*  
SC = .6

CERTIFIED TEST REPORT NO. 2722FR DATE: SEP 5, 2004  
COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*\*

LUMINAIRE INPUT WATTS = 51

**Job Information** **Type:**

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