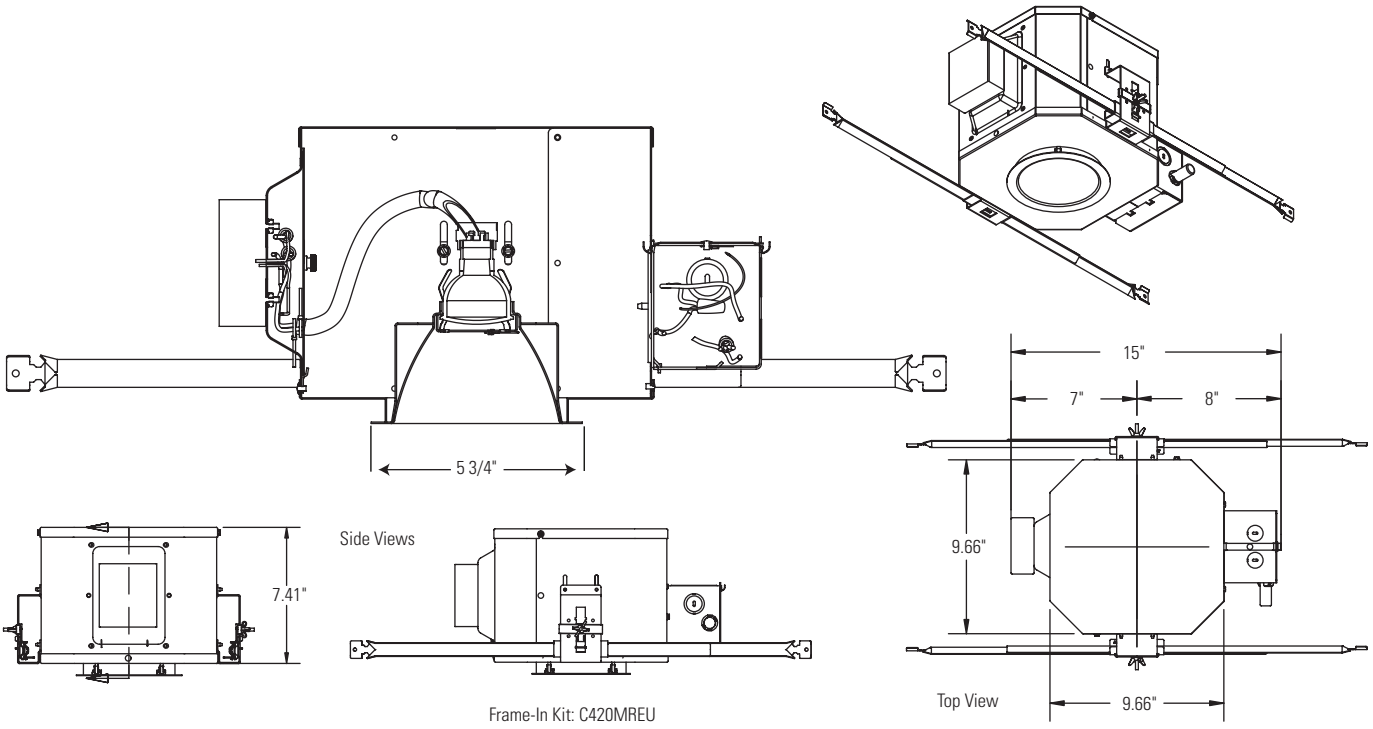


Frame-In Kit: C420MREU

Ceiling Cutout: 5 1/16" (129 mm) Dia. **Ceiling Thickness: 1 1/8" Max**

Reflector Trim			Frame-In Kit	Lamp
Finish	**White Flange**	**Polished Flange**		
Comfort Clear Diffuse	**C4MRD CCDW**	**C4MRD CCDP**	**C420MREU** – Electronic 120/277V Non-IC	(1) 20W MR16 CMH GX10 Base
Comfort Clear	**C4MRD CCLW**	**C4MRD CCLP**		
Champagne Bronze	**C4MRD CCZW**	**C4MRD CCZP**		

Features

1. **Trim Kit Aperture Cone:** 50° visual cut-off to lamp and lamp image. Low brightness, 0.040" aluminum, anodized; keyed to lamp support assembly for true aiming of lamp to prevent incorrect installation of cone. Hinged and snaps on for easy tool-less installation.
2. **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.
   NOTE: HID lampholder ship with the frame. Discard the incandescent lampholder that ships standard with the trims.
3. **Horizontal Adjustment Mechanism:** Die-form steel ring, matte black finish. Provides 360° horizontal stop, lockable.
4. **Frame Vertical Adjustment Mechanism:** Accommodates mounting to virtually any ceiling system using pre-installed mounting bars, or ½" EMT tubing (by others). Single locking feature 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.
5. **Mounting Bars:** Galvanized steel, 0.048"; pre-installed telescoping bars extend to 30" long and lock securely into position. Built-in locking tabs provide positive attachment to common T-bars systems. Self-centering feature simplified installation in 24" O.C. grid systems. Attaches to steel or wood joists without accessories
6. **Socket Harness:** Twist and lock base. 5kV (600V) pulse rated PPS, black T240 body socket with nickel-plated contacts. 18 AWG silicone leads with fiberglass outer sleeve

Options and Accessories

Accepts one AL2 or AF2 accessory

Labels

U.L (Suitable for Damp Locations)

Teflon® is a registered trademark of E.I. DuPont.

Job Information **Type:**

Job Name:

Cat. No.:

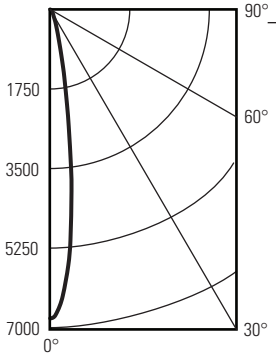
Lamp(s):

Notes:

631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710

PHILIPS
LIGHTOLIER®

C4MRDCCLW, 20W G.E. HID SPOT, 12° GX10 BASE



LUMEN RATING = 1000 LMS.
SC = .3
TEST REPORT NO. 3405FR

CANDLEPOWER SUMMARY

Angle	Mean CP	Lumens
0	6795	
5	5107	457
10	2136	
15	803	293
20	386	
25	207	108
30	134	
35	52	42
40	30	
45	16	12
50	0	
55	0	0
60	0	
65	0	0
70	0	
75	0	0
80	0	
85	0	0
90	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LAMP	%LUMINAIRE
0-30	857	85.75	94.06
0-40	899	89.97	98.69
0-60	911	91.16	100.00
0-90	911	91.16	100.00
40-90	11	1.19	1.31
60-90	0	.00	.00
90-180	0	.00	.00
0-180	911	91.16	100.00

** EFFICIENCY = 91.2% **

LUMINANCE SUMMARY

ANGLE	MEAN CD/SQ M
45	2475
55	0
65	0
75	0
85	0

COEFFICIENTS OF UTILIZATION
ZONAL CAVITY METHOD

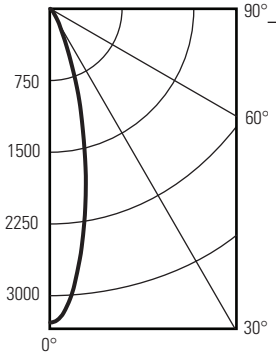
EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC	80				70				50			30			10			
WALL	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	1.09	1.09	1.09	1.09	1.06	1.06	1.06	1.06	1.01	1.01	1.01	.97	.97	.97	.93	.93	.93	.91
1	1.06	1.04	1.03	1.02	1.04	1.03	1.01	1.00	.99	.98	.97	.95	.95	.94	.92	.92	.91	.90
2	1.03	1.01	.98	.96	1.01	.99	.97	.95	.96	.95	.93	.94	.93	.92	.91	.91	.90	.88
3	1.01	.97	.95	.93	.99	.96	.94	.92	.94	.92	.91	.92	.91	.90	.91	.89	.88	.87
4	.99	.95	.92	.90	.98	.94	.92	.90	.92	.90	.89	.91	.89	.88	.89	.88	.87	.86
5	.97	.93	.90	.88	.95	.92	.89	.87	.90	.88	.87	.89	.87	.86	.88	.87	.85	.84
6	.95	.91	.88	.86	.94	.90	.87	.85	.89	.87	.85	.88	.86	.84	.87	.85	.84	.83
7	.93	.89	.86	.84	.92	.88	.86	.83	.87	.85	.83	.86	.84	.83	.86	.84	.82	.82
8	.92	.87	.84	.82	.91	.86	.84	.82	.86	.83	.82	.85	.83	.81	.84	.83	.81	.80
9	.90	.85	.83	.81	.89	.85	.83	.81	.84	.82	.80	.84	.82	.80	.83	.81	.80	.79
10	.88	.84	.81	.79	.88	.84	.81	.79	.83	.81	.79	.82	.80	.79	.82	.80	.79	.78

CU VALUE GREATER THAN 1.00
determined in accordance with current IES published procedures
LUMINAIRE INPUT WATTS = 26.0

Tested according to IES procedures.
Test distance exceeds five times the greatest luminous opening of luminaire.

C4MRDCCLW, 20W G.E. HID FLOOD, 25° GX10 BASE



LUMEN RATING = 1000 LMS.
SC = .4
TEST REPORT NO. 3392FR

CANDLEPOWER SUMMARY

Angle	Mean CP	Lumens
0	3280	
5	2896	267
10	2105	
15	1316	386
20	715	
25	342	184
30	187	
35	92	67
40	53	
45	30	22
50	0	
55	0	0
60	0	
65	0	0
70	0	
75	0	0
80	0	
85	0	0
90	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LAMP	%LUMINAIRE
0-30	836	83.67	90.41
0-40	903	90.33	97.61
0-60	925	92.54	100.00
0-90	925	92.54	100.00
40-90	22	2.21	2.39
60-90	0	.00	.00
90-180	0	.00	.00
0-180	925	92.54	100.00

** EFFICIENCY = 92.5% **

LUMINANCE SUMMARY

ANGLE	MEAN CD/SQ M
45	4709
55	0
65	0
75	0
85	0

COEFFICIENTS OF UTILIZATION
ZONAL CAVITY METHOD

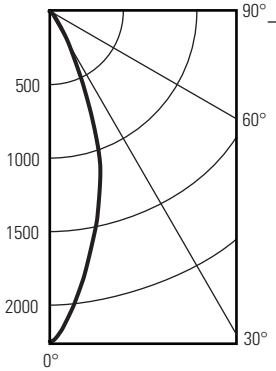
EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC	80				70				50			30			10			
WALL	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	1.10	1.10	1.10	1.10	1.08	1.08	1.08	1.08	1.03	1.03	1.03	.98	.98	.98	.94	.94	.94	.93
1	1.07	1.05	1.04	1.02	1.05	1.04	1.02	1.01	1.00	.99	.98	.96	.95	.95	.93	.93	.92	.91
2	1.04	1.01	.99	.96	1.02	.99	.97	.95	.96	.95	.93	.94	.93	.91	.92	.91	.90	.88
3	1.01	.97	.94	.92	1.00	.96	.94	.92	.94	.92	.90	.92	.90	.89	.90	.89	.87	.86
4	.98	.94	.91	.89	.97	.93	.91	.88	.92	.89	.87	.90	.88	.86	.88	.87	.85	.84
5	.96	.91	.88	.85	.95	.90	.87	.85	.89	.86	.84	.87	.85	.83	.86	.85	.83	.82
6	.94	.89	.85	.83	.93	.88	.85	.83	.87	.84	.82	.86	.83	.82	.85	.83	.81	.80
7	.91	.86	.83	.80	.90	.85	.82	.80	.84	.82	.80	.83	.81	.79	.83	.80	.79	.78
8	.89	.83	.80	.78	.88	.83	.80	.77	.82	.79	.77	.81	.79	.77	.81	.78	.77	.76
9	.87	.81	.78	.76	.86	.81	.78	.76	.80	.77	.75	.80	.77	.75	.79	.76	.75	.74
10	.85	.79	.76	.73	.84	.79	.76	.73	.78	.75	.73	.78	.75	.73	.77	.75	.73	.72

CU VALUE GREATER THAN 1.00
determined in accordance with current IES published procedures
LUMINAIRE INPUT WATTS = 26.0

Tested according to IES procedures.
Test distance exceeds five times the greatest luminous opening of luminaire.

C4MRDCCLW, 20W G.E. HID FLOOD, 40° GX10 BASE



LUMEN RATING = 1000 LMS.
SC = .6
TEST REPORT NO. 3391FR

CANDLEPOWER SUMMARY

Angle	Mean CP	Lumens
0	2247	
5	1983	187
10	1629	
15	1300	366
20	934	
25	504	255
30	261	
35	120	88
40	62	
45	37	27
50	5	
55	1	2
60	1	
65	1	1
70	0	
75	0	0
80	0	
85	0	0
90	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	%LAMP	%LUMINAIRE
0-30	807	80.79	87.15
0-40	896	89.63	96.69
0-60	925	92.56	99.85
0-90	926	92.70	100.00
40-90	30	3.07	3.31
60-90	1	.14	.15
90-180	0	.00	.00
0-180	926	92.70	100.00

** EFFICIENCY = 92.7% **

LUMINANCE SUMMARY

ANGLE	MEAN CD/SQ M
45	5737
55	260
65	211
75	157
85	200

COEFFICIENTS OF UTILIZATION
ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC	80				70				50			30			10			
WALL	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	1.10	1.10	1.10	1.10	1.08	1.08	1.08	1.08	1.03	1.03	1.03	.99	.99	.99	.95	.95	.95	.93
1	1.07	1.05	1.03	1.02	1.05	1.03	1.02	1.00	.99	.98	.97	.96	.95	.94	.93	.92	.92	.90
2	1.03	1.00	.98	.95	1.02	.99	.96	.94	.96	.94	.92	.93	.92	.91	.91	.90	.89	.87
3	1.00	.96	.93	.91	.99	.95	.92	.90	.93	.91	.89	.91	.89	.87	.89	.88	.86	.85
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6	.92	.86	.83	.80	.91	.86	.82	.80	.85	.82	.79	.83	.81	.79	.82	.80	.78	.77
7	.89	.83	.79	.77	.88	.83	.79	.76	.82	.78	.76	.81	.78	.76	.80	.77	.75	.75
8	.87	.80	.77	.74	.86	.80	.76	.74	.79	.76	.74	.78	.75	.73	.77	.75	.73	.72
9	.84	.78	.74	.71	.83	.77	.74	.71	.76	.73	.71	.76	.73	.71	.75	.72	.70	.70
10	.81	.75	.72	.69	.81	.75	.72	.69	.74	.71	.69	.74	.71	.68	.73	.70	.68	.67

CU VALUE GREATER THAN 1.00
determined in accordance with current IES published procedures
LUMINAIRE INPUT WATTS = 26.0

Tested according to IES procedures.
Test distance exceeds five times the greatest luminous opening of luminaire.

Job Information **Type:**

631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710

PHILIPS
LIGHTOLIER®