

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: 126P126

Luminaire Tested: **2GC-317A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 126P126
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-317A
Description: 2 X 2 Recessed Convertible Body Luminaire with a
.095 pattern 12 acrylic lens.
Light Source: Three - F017/35K - 1300 Lumens ea. - 17 Watts ea.
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 89.7

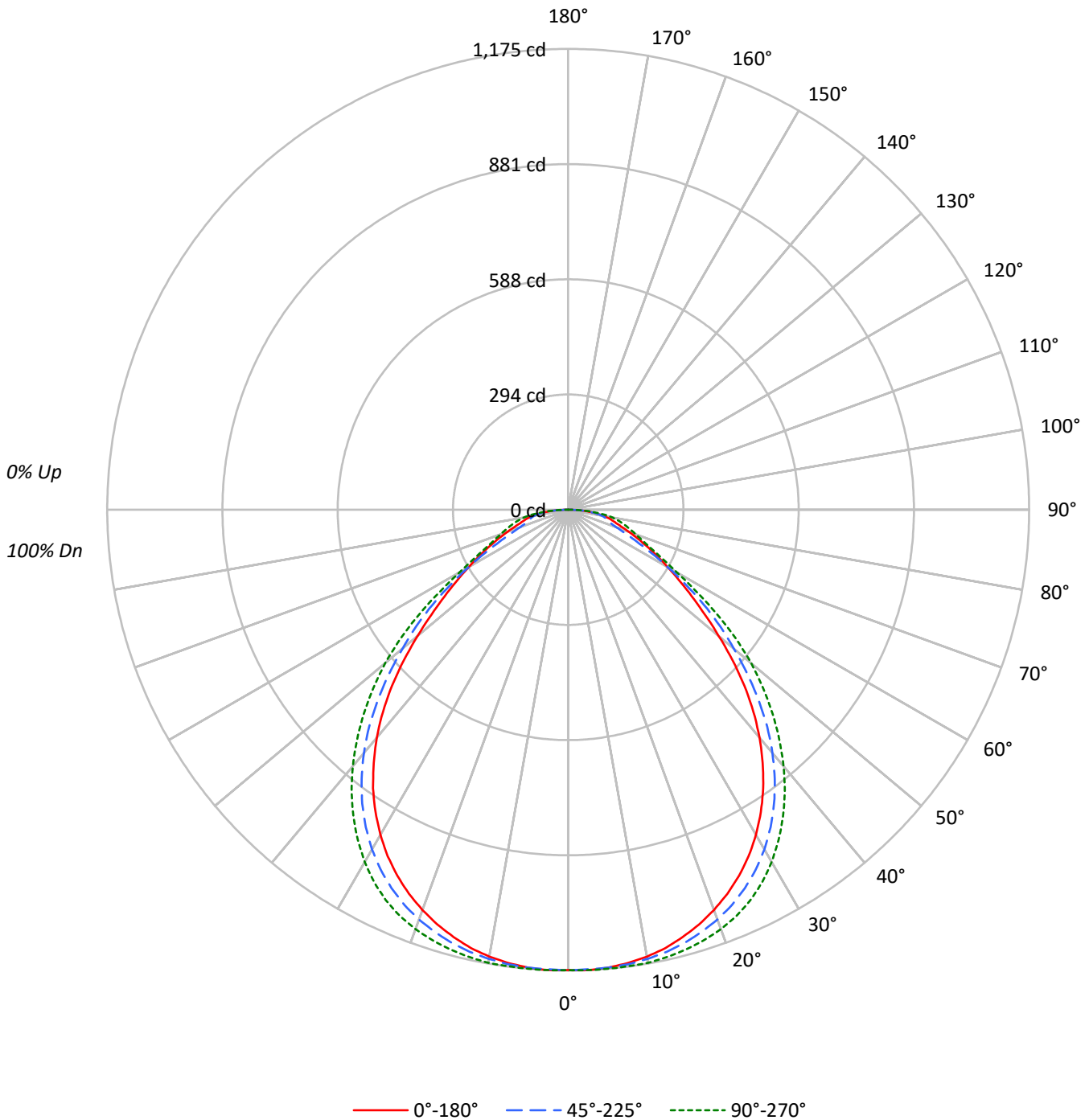
Summary

Lumens per Lamp: 1300 (3 lamps)
Luminaire Lumens: 2795.5 lumens
Efficiency: 71.7%
Efficacy: 57.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.31
Luminous Opening: Rectangular (W 1.79' x L: 1.81' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	85	85	85	85	83	83	83	83	80	80	80	76	76	76	73	73	73	72						72													
1	79	75	73	70	77	74	71	69	71	69	67	68	66	65	66	64	63	61						61													
2	72	67	62	59	70	65	61	58	63	59	57	61	58	55	59	56	54	53						53													
3	66	59	54	50	65	58	53	49	56	52	48	54	51	48	52	49	47	45						45													
4	61	53	47	43	60	52	47	43	51	46	42	49	45	41	47	44	41	39						39													
5	57	48	42	37	55	47	41	37	46	41	37	44	40	36	43	39	36	35						35													
6	52	43	37	33	51	43	37	33	42	36	33	40	36	32	39	35	32	31						31													
7	49	40	34	29	48	39	33	29	38	33	29	37	32	29	36	32	29	27						27													
8	46	36	30	26	44	36	30	26	35	30	26	34	29	26	33	29	26	25						25													
9	43	33	28	24	42	33	28	24	32	27	24	31	27	24	31	27	24	22						22													
10	40	31	25	22	39	31	25	22	30	25	22	29	25	22	29	24	22	20						20													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3903	3903	3903
5°	3911	3911	3921
10°	3905	3926	3959
15°	3882	3937	3996
20°	3842	3934	4026
25°	3778	3906	4031
30°	3673	3838	3980
35°	3518	3713	3876
40°	3294	3515	3706
45°	2985	3225	3465
50°	2591	2850	3149
55°	2226	2446	2672
60°	1948	1948	2127
65°	1738	1518	1825
70°	1594	1264	1779
75°	1580	1323	1914
80°	1761	1665	2182
85°	1869	1869	2327



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	111.6	4.0	2.9	0°	1174	1174	1174	1174	1174	
10°-20°	322.9	11.6	8.3	5°	1172	1171	1172	1173	1175	111
20°-30°	489.6	17.5	12.6	15°	1128	1132	1144	1156	1161	318
30°-40°	568.5	20.3	14.6	25°	1030	1040	1065	1089	1099	474
40°-50°	525.7	18.8	13.5	35°	867	881	915	942	955	540
50°-60°	375.4	13.4	9.6	45°	635	652	686	713	737	487
60°-70°	215.6	7.7	5.5	55°	384	389	422	443	461	347
70°-80°	131.1	4.7	3.4	65°	221	201	193	228	232	221
80°-90°	55.0	2.0	1.4	75°	123	116	103	138	149	132
90°-100°	0.0	0.0	0.0	85°	49	48	49	60	61	49
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	3
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	924.1	33.1	23.7	165°	0	0	0	0	0	0
0°-40°	1492.6	53.4	38.3	175°	0	0	0	0	0	0
0°-60°	2393.7	85.6	61.4	180°	0	0	0	0	0	0
0°-90°	2795.5	100.0	71.7							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	2795.5	100.0	71.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1174	1174	1174	1174	1174
2.5°	1175	1173	1173	1174	1175
5°	1172	1171	1172	1173	1175
7.5°	1166	1166	1169	1172	1174
10°	1157	1158	1163	1169	1173
12.5°	1145	1147	1155	1164	1168
15°	1128	1132	1144	1156	1161
17.5°	1109	1114	1129	1144	1151
20°	1086	1093	1112	1130	1138
22.5°	1060	1068	1091	1112	1121
25°	1030	1040	1065	1089	1099
27.5°	996	1008	1035	1060	1071
30°	957	970	1000	1026	1037
32.5°	914	928	960	986	998
35°	867	881	915	942	955
37.5°	814	830	865	893	907
40°	759	775	810	839	854
42.5°	699	716	751	779	797
45°	635	652	686	713	737
47.5°	568	586	619	644	674
50°	501	519	551	577	609
52.5°	439	454	488	511	537
55°	384	389	422	443	461
57.5°	335	329	355	375	385
60°	293	278	293	316	320
62.5°	255	236	238	266	270
65°	221	201	193	228	232
67.5°	191	173	157	199	204
70°	164	151	130	176	183
72.5°	141	132	112	156	165
75°	123	116	103	138	149
77.5°	109	101	97	119	133
80°	92	84	87	101	114
82.5°	72	67	71	82	90
85°	49	48	49	60	61
87.5°	25	25	25	31	29
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)