

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: 126P114

Luminaire Tested: **2GC-3U1-5/8A19/156-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 126P114
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-3U1-5/8A19/156-PAF
Description: 2 X 2 Recessed Convertible Body Luminaire with a .156
pattern 19 acrylic lens.
Light Source: Three - FBO31/35K - 2750 Lumens ea. - 31 Watts ea.
Ballast/Driver: Advance REL-2P32RH-TP, REL-1P32-RH-TP Electronic

Summary

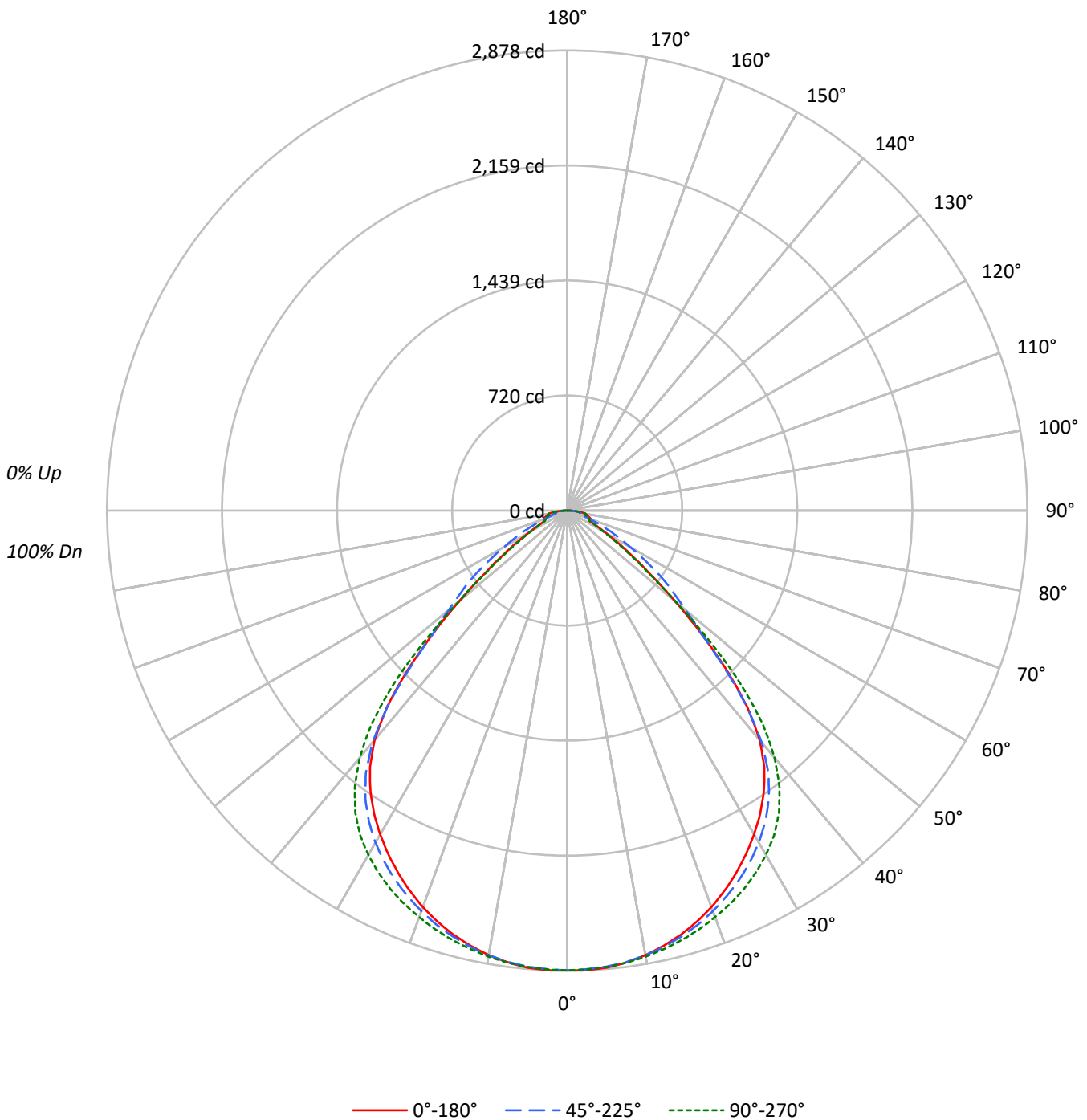
Lumens per Lamp: 2750 (3 lamps)
Luminaire Lumens: 5811.8 lumens
Efficiency: 70.4%
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.27
Luminous Opening: Rectangular (W 1.78' x L: 1.81' x H: 0')
CIE Type: Direct

Input Watts (W): 79
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					20	
RC	80					70					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	0	
RCR																						
0	84	84	84	84	82	82	82	82	78	78	78	75	75	75	72	72	72	70				70
1	78	75	73	71	76	74	72	70	71	69	67	68	67	65	66	64	63	62				62
2	72	68	64	60	71	66	63	60	64	61	58	62	59	57	60	57	56	54				54
3	67	61	56	52	65	60	55	52	58	54	51	56	53	50	54	51	49	48				48
4	62	55	50	46	61	54	49	45	52	48	45	51	47	44	49	46	44	42				42
5	58	50	44	40	56	49	44	40	48	43	40	46	42	39	45	42	39	38				38
6	54	45	40	36	53	45	40	36	44	39	35	42	38	35	41	38	35	34				34
7	50	42	36	32	49	41	36	32	40	35	32	39	35	32	38	34	31	30				30
8	47	38	33	29	46	38	33	29	37	32	29	36	32	29	35	31	29	27				27
9	44	35	30	26	43	35	30	26	34	30	26	33	29	26	33	29	26	25				25
10	41	33	28	24	41	32	28	24	32	27	24	31	27	24	31	27	24	23				23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9588	9588	9588
5°	9602	9581	9588
10°	9557	9560	9591
15°	9478	9519	9592
20°	9363	9459	9601
25°	9200	9369	9612
30°	9004	9232	9574
35°	8730	8954	9398
40°	8152	8243	8783
45°	6648	6540	7251
50°	4538	5000	4601
55°	2912	4109	2784
60°	1854	3034	1740
65°	1239	2177	1223
70°	1530	1394	1443
75°	1700	1018	1546
80°	2246	1594	2227
85°	2219	2448	2333



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	272.2	4.7	3.3	0°	2876	2876	2876	2876	2876	
10°-20°	778.9	13.4	9.4	5°	2869	2860	2863	2868	2865	272
20°-30°	1175.1	20.2	14.2	15°	2746	2743	2758	2777	2779	774
30°-40°	1372.7	23.6	16.6	25°	2501	2507	2547	2598	2613	1151
40°-50°	1110.8	19.1	13.5	35°	2145	2145	2200	2275	2309	1333
50°-60°	585.9	10.1	7.1	45°	1410	1440	1387	1510	1538	1070
60°-70°	286.1	4.9	3.5	55°	501	690	707	680	479	469
70°-80°	163.1	2.8	2.0	65°	157	331	276	342	155	180
80°-90°	67.1	1.2	0.8	75°	132	194	79	204	120	143
90°-100°	0.0	0.0	0.0	85°	58	72	64	69	61	60
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	4
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°	2226.1	38.3	27.0	165°	0	0	0	0	0	0
0°-40°	3598.8	61.9	43.6	175°	0	0	0	0	0	0
0°-60°	5295.6	91.1	64.2	180°	0	0	0	0	0	0
0°-90°	5811.8	100.0	70.4							
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°	5811.8	100.0	70.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2876	2876	2876	2876	2876
2.5°	2878	2870	2871	2875	2872
5°	2869	2860	2863	2868	2865
7.5°	2850	2843	2847	2853	2851
10°	2823	2818	2824	2834	2833
12.5°	2788	2785	2795	2808	2808
15°	2746	2743	2758	2777	2779
17.5°	2696	2695	2716	2741	2746
20°	2639	2640	2666	2699	2706
22.5°	2573	2577	2609	2652	2663
25°	2501	2507	2547	2598	2613
27.5°	2423	2429	2477	2536	2554
30°	2339	2343	2398	2464	2487
32.5°	2247	2250	2307	2379	2408
35°	2145	2145	2200	2275	2309
37.5°	2025	2028	2067	2142	2181
40°	1873	1883	1894	1976	2018
42.5°	1668	1688	1663	1771	1812
45°	1410	1440	1387	1510	1538
47.5°	1133	1195	1135	1227	1206
50°	875	997	964	998	887
52.5°	659	832	832	822	644
55°	501	690	707	680	479
57.5°	378	569	575	563	354
60°	278	473	455	471	261
62.5°	205	395	360	400	196
65°	157	331	276	342	155
67.5°	147	287	198	299	143
70°	157	257	143	266	148
72.5°	148	226	105	236	136
75°	132	194	79	204	120
77.5°	126	161	71	169	120
80°	117	125	83	129	116
82.5°	91	94	83	94	95
85°	58	72	64	69	61
87.5°	27	38	29	36	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)