

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: 126P116

Luminaire Tested: **2GC-3U1-5/8PB2S-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 126P116
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-3U1-5/8PB2S-PAF
Description: 2 X 2 Recessed Convertible Body Luminaire with a specular silver injection molded parabolic louver 1.5" x 1.5" x 1".
Light Source: Three - FBO31/35K - 2750 Lumens ea. - 31 Watts ea.
Ballast/Driver: Advance REL-2P32-RH-TP, REL-1P32-RH-TP Electronic

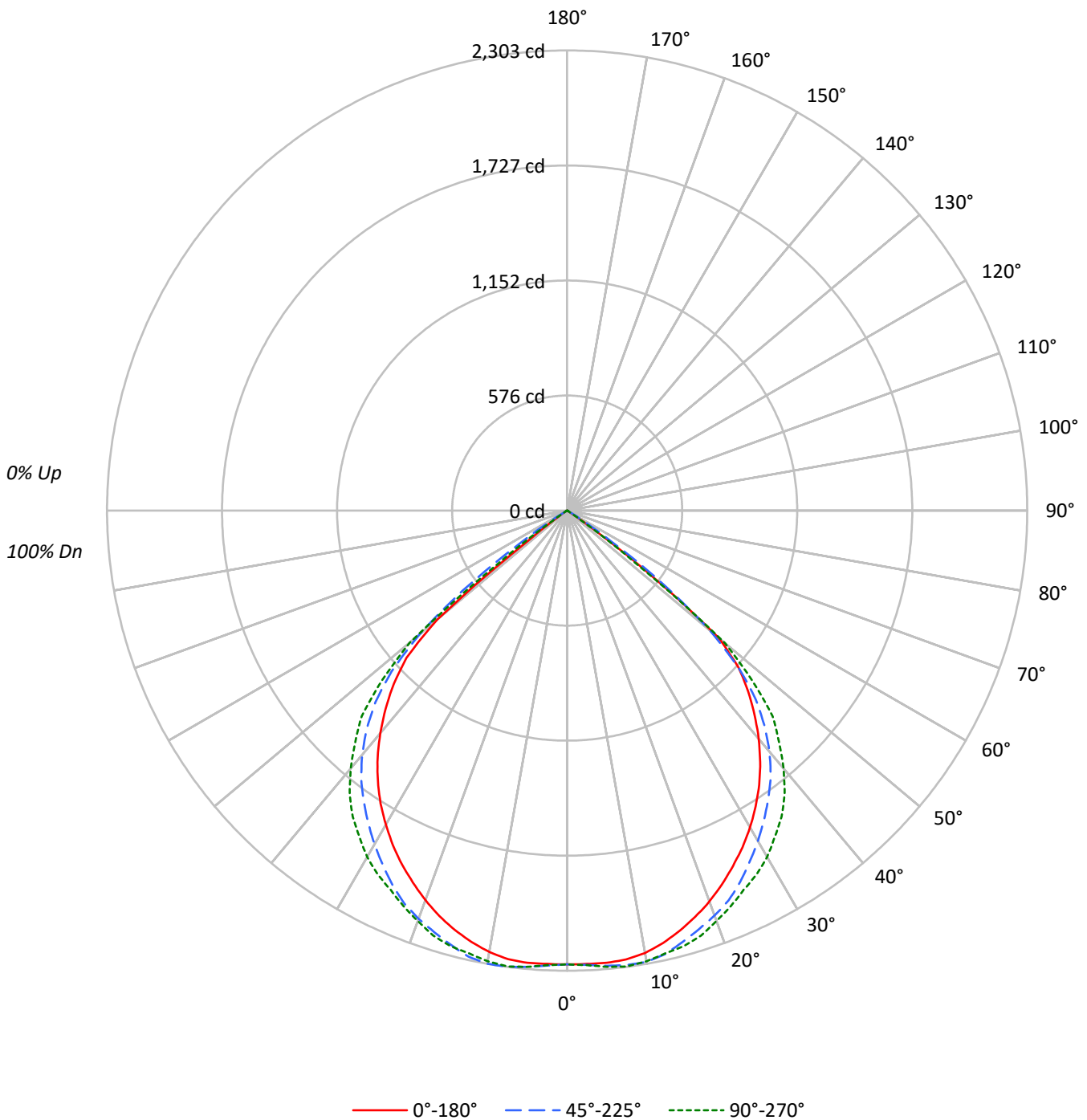
Summary

Lumens per Lamp: 2750 (3 lamps)
Luminaire Lumens: 4184.0 lumens
Efficiency: 50.7%
Efficacy: 52.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.32
Luminous Opening: Rectangular (W 1.71' x L: 1.71' x H: 0')
CIE Type: Direct

Input Watts (W): 80.1
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									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	50	30	10	0														
RCR																																						
0	60	60	60	60	59	59	59	59	56	56	56	54	54	54	52	52	52	51						51														
1	57	55	54	53	56	54	53	52	52	51	50	50	49	49	48	48	47	46						46														
2	53	50	48	46	52	49	47	45	48	46	44	46	45	43	45	44	42	42						42														
3	50	46	43	40	49	45	42	40	44	41	39	42	40	39	41	40	38	37						37														
4	46	42	38	36	45	41	38	36	40	37	35	39	37	35	38	36	34	33						33														
5	43	38	35	32	42	38	34	32	37	34	31	36	33	31	35	33	31	30						30														
6	40	35	31	29	40	35	31	28	34	31	28	33	30	28	32	30	28	27						27														
7	38	32	28	26	37	32	28	26	31	28	26	30	27	25	30	27	25	24						24														
8	35	30	26	23	35	29	26	23	29	25	23	28	25	23	28	25	23	22						22														
9	33	27	24	21	33	27	24	21	27	23	21	26	23	21	26	23	21	20						20														
10	31	25	22	19	31	25	22	19	25	22	19	24	21	19	24	21	19	18						18														

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	8376	8376	8376
5°	8412	8486	8412
10°	8420	8577	8401
15°	8313	8615	8298
20°	8172	8580	8145
25°	7989	8518	7956
30°	7798	8527	7730
35°	7547	8425	7439
40°	7184	8113	7006
45°	6682	7584	6395
50°	5669	5899	4872
55°	752	559	328
60°	37	37	30
65°	26	26	26
70°	22	22	22
75°	14	14	14
80°	21	0	21
85°	0	0	42



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	218.3	5.2	2.6	0°	2271	2271	2271	2271	2271	
10°-20°	630.4	15.1	7.6	5°	2272	2287	2292	2292	2272	216
20°-30°	944.0	22.6	11.4	15°	2177	2235	2256	2250	2173	613
30°-40°	1106.4	26.4	13.4	25°	1963	2050	2093	2068	1955	904
40°-50°	1013.2	24.2	12.3	35°	1676	1756	1871	1775	1652	1045
50°-60°	265.7	6.4	3.2	45°	1281	1334	1454	1357	1226	977
60°-70°	3.9	0.1	0.0	55°	117	271	87	312	51	243
70°-80°	1.8	0.0	0.0	65°	3	3	3	4	3	3
80°-90°	0.3	0.0	0.0	75°	1	2	1	2	1	1
90°-100°	0.0	0.0	0.0	85°	0	0	0	1	1	0
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
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°	1792.7	42.8	21.7	165°	0	0	0	0	0	0
0°-40°	2899.1	69.3	35.1	175°	0	0	0	0	0	0
0°-60°	4178.0	99.9	50.6	180°	0	0	0	0	0	0
0°-90°	4184.0	100.0	50.7							
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°	4184.0	100.0	50.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2271	2271	2271	2271	2271	2271	2271	2271	2271
2.5°	2271	2271	2276	2285	2277	2283	2279	2275	2271
5°	2272	2274	2287	2298	2292	2298	2292	2282	2272
7.5°	2266	2275	2294	2309	2301	2310	2302	2285	2265
10°	2248	2263	2293	2302	2290	2305	2303	2277	2243
12.5°	2217	2240	2273	2280	2270	2285	2286	2255	2212
15°	2177	2209	2235	2261	2256	2268	2250	2226	2173
17.5°	2132	2170	2196	2241	2230	2250	2212	2188	2128
20°	2082	2121	2157	2198	2186	2210	2174	2142	2075
22.5°	2025	2065	2112	2146	2142	2158	2129	2085	2016
25°	1963	2002	2050	2092	2093	2105	2068	2022	1955
27.5°	1900	1935	1980	2035	2053	2049	1999	1955	1888
30°	1831	1866	1909	1985	2002	1998	1928	1887	1815
32.5°	1756	1791	1834	1916	1935	1930	1853	1812	1738
35°	1676	1710	1756	1835	1871	1849	1775	1731	1652
37.5°	1587	1619	1674	1754	1788	1769	1693	1640	1558
40°	1492	1515	1575	1650	1685	1665	1596	1537	1455
42.5°	1389	1406	1462	1527	1569	1544	1485	1424	1345
45°	1281	1286	1334	1390	1454	1406	1357	1304	1226
47.5°	1164	1134	1165	1217	1254	1240	1192	1159	1091
50°	988	866	929	904	1028	937	965	917	849
52.5°	495	520	612	554	428	588	658	581	228
55°	117	146	271	155	87	180	312	184	51
57.5°	12	25	71	26	8	31	88	32	6
60°	5	5	12	4	5	6	15	6	4
62.5°	4	4	4	4	4	5	5	4	4
65°	3	4	3	3	3	4	4	4	3
67.5°	3	3	3	3	3	4	3	3	3
70°	2	3	3	2	2	3	3	3	2
72.5°	2	3	2	2	2	3	2	2	2
75°	1	2	2	1	1	2	2	2	1
77.5°	1	1	1	1	1	1	2	1	1
80°	1	1	1	1	0	1	1	1	1
82.5°	0	1	0	0	0	1	0	1	0
85°	0	0	0	0	0	0	1	1	1
87.5°	0	0	0	0	0	0	0	0	1
90°	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)