

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: 104P236

Luminaire Tested: **2P2GX-332S36I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 104P236
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-332S36I
Description: 2 X 4 Recessed Convertible Body Luminaire with a 2"
deep 18 cell semi-specular low iridescent parabolic louver.
Light Source: Three - FO32/735 - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Advance REL-3P32-TP Electronic L.O.B.F. = 89.5%

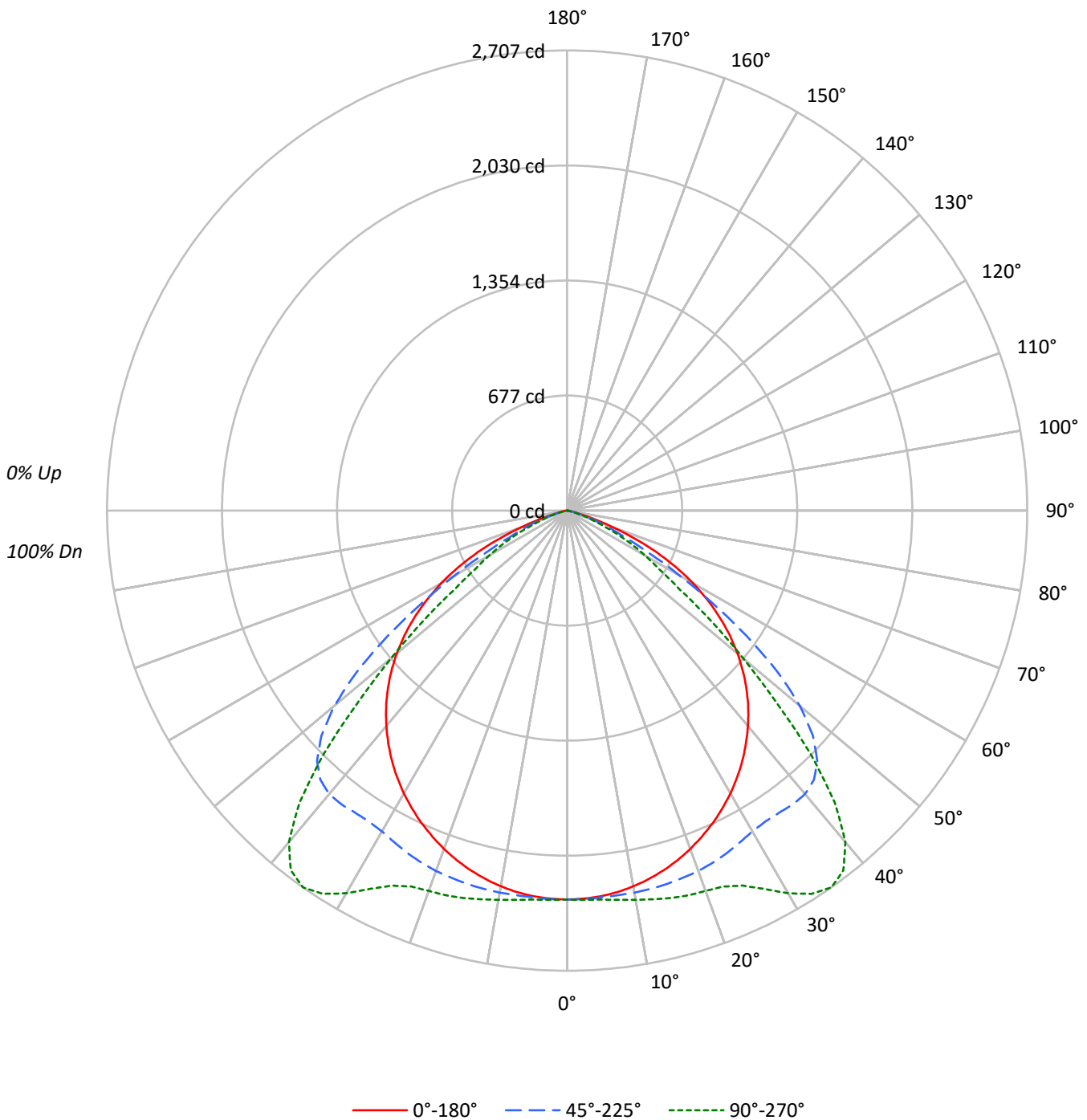
Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 6275.9 lumens
Efficiency: 74.7%
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.68 / 1.57
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 87
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	89	89	89	89	87	87	87	87	83	83	83	79	79	79	76	76	76	75																				
1	83	80	77	75	81	78	76	74	75	73	71	72	71	69	70	68	67	66																				
2	76	71	67	63	74	70	66	62	67	64	61	65	62	59	62	60	58	57																				
3	70	63	58	53	68	62	57	53	60	56	52	58	54	51	56	53	50	49																				
4	64	56	50	46	63	55	50	45	54	49	45	52	48	44	50	47	44	42																				
5	59	51	44	40	58	50	44	40	48	43	39	47	42	39	45	41	38	37																				
6	55	46	39	35	54	45	39	35	44	38	34	42	38	34	41	37	34	32																				
7	51	41	35	31	50	41	35	31	40	34	30	39	34	30	38	33	30	29																				
8	47	38	32	27	46	37	31	27	36	31	27	35	30	27	34	30	27	25																				
9	44	34	29	25	43	34	28	25	33	28	24	32	28	24	32	27	24	23																				
10	41	32	26	22	40	31	26	22	31	26	22	30	25	22	29	25	22	21																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3765	3765	3765
5°	3761	3773	3794
10°	3749	3813	3885
15°	3732	3872	4019
20°	3709	3950	4169
25°	3682	4036	4419
30°	3650	4140	4938
35°	3610	4361	5438
40°	3555	4676	5469
45°	3477	4843	4712
50°	3351	4572	3456
55°	3144	3712	2318
60°	2817	2514	1751
65°	2262	1472	1246
70°	1395	909	722
75°	490	381	165
80°	256	142	114
85°	151	94	94



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	218.0	3.5	2.6	0°	2288	2288	2288	2288	2288	
10°-20°	643.0	10.2	7.7	5°	2277	2274	2284	2294	2297	216
20°-30°	1030.9	16.4	12.3	15°	2191	2206	2273	2336	2359	618
30°-40°	1385.5	22.1	16.5	25°	2028	2082	2223	2354	2434	934
40°-50°	1444.8	23.0	17.2	35°	1797	1907	2171	2560	2707	1123
50°-60°	999.3	15.9	11.9	45°	1494	1655	2081	2115	2025	1150
60°-70°	460.9	7.3	5.5	55°	1096	1296	1294	909	808	975
70°-80°	86.1	1.4	1.0	65°	581	666	378	329	320	569
80°-90°	7.3	0.1	0.1	75°	77	73	60	34	26	118
90°-100°	0.0	0.0	0.0	85°	8	7	5	4	5	11
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°	1892.0	30.1	22.5	165°	0	0	0	0	0	0
0°-40°	3277.5	52.2	39.0	175°	0	0	0	0	0	0
0°-60°	5721.6	91.2	68.1	180°	0	0	0	0	0	0
0°-90°	6275.9	100.0	74.7							
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°	6275.9	100.0	74.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2288	2288	2288	2288	2288
2.5°	2285	2281	2288	2292	2292
5°	2277	2274	2284	2294	2297
7.5°	2264	2263	2282	2303	2309
10°	2244	2248	2282	2314	2325
12.5°	2220	2228	2279	2324	2342
15°	2191	2206	2273	2336	2359
17.5°	2157	2180	2265	2343	2373
20°	2118	2151	2256	2346	2381
22.5°	2074	2118	2241	2345	2394
25°	2028	2082	2223	2354	2434
27.5°	1976	2043	2200	2390	2508
30°	1921	2001	2179	2452	2599
32.5°	1861	1956	2169	2517	2673
35°	1797	1907	2171	2560	2707
37.5°	1728	1852	2179	2558	2669
40°	1655	1793	2177	2488	2546
42.5°	1577	1728	2149	2345	2329
45°	1494	1655	2081	2115	2025
47.5°	1404	1577	1960	1811	1665
50°	1309	1493	1786	1470	1350
52.5°	1206	1401	1562	1174	1069
55°	1096	1296	1294	909	808
57.5°	980	1171	1011	676	639
60°	856	1025	764	535	532
62.5°	723	853	549	431	423
65°	581	666	378	329	320
67.5°	430	477	279	236	215
70°	290	301	189	152	150
72.5°	170	161	115	103	103
75°	77	73	60	34	26
77.5°	43	35	30	19	18
80°	27	21	15	13	12
82.5°	16	13	9	8	7
85°	8	7	5	4	5
87.5°	3	3	2	2	2
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)