

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: 220P152

Luminaire Tested: **2EP3GX-332S39I-2BC**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 220P152  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2EP3GX-332S39I-2BC  
Description: 2 X 4 Recessed Convertible Body Luminaire with a 27  
cell semi-specular low iridescent parabolic louver and two  
ballast covers.  
Light Source: Three FO32/35K - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Motorola M3-IN-T8-GP-D-120 Electronic - L.O.B.F.=85.8%

**Summary**

Lumens per Lamp: 2800 (3 lamps)  
Luminaire Lumens: 5366.4 lumens  
Efficiency: 63.9%  
Efficacy: 63.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.65 / 1.49  
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')  
CIE Type: Direct

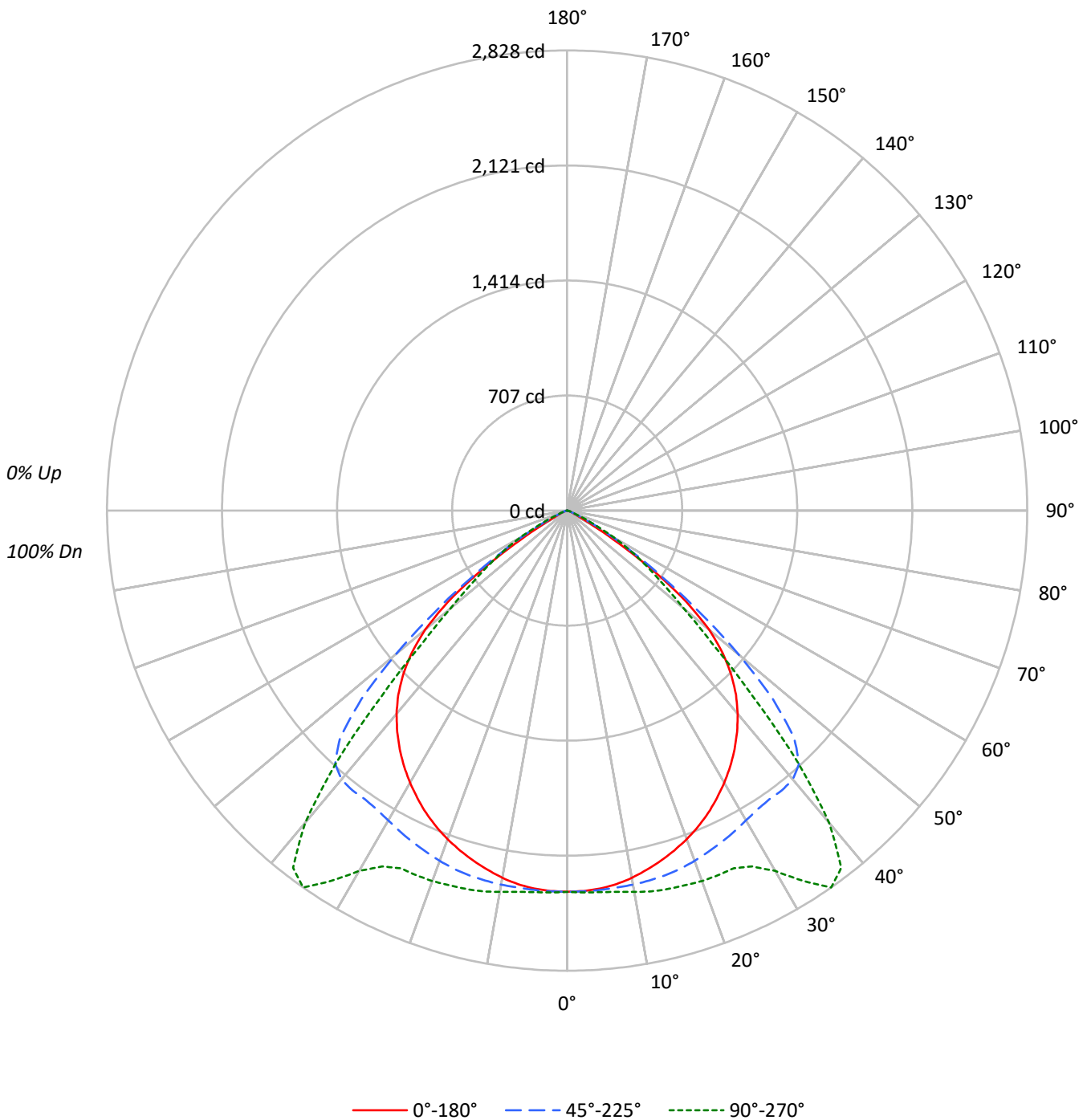
Input Watts (W): 84  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																				
0	76	76	76	76	74	74	74	74	71	71	71		68	68	68		65	65	65	64
1	71	69	67	65	70	68	66	64	65	64	62		63	61	60		60	60	59	57
2	66	62	59	56	65	61	58	56	59	56	54		57	55	53		55	53	52	51
3	62	56	52	49	60	55	51	48	53	50	47		52	49	47		50	48	46	45
4	57	51	46	42	56	50	46	42	48	45	42		47	44	41		46	43	41	39
5	53	46	41	37	52	45	41	37	44	40	37		43	39	36		42	39	36	35
6	49	42	37	33	48	41	36	33	40	36	33		39	35	32		38	35	32	31
7	46	38	33	30	45	38	33	29	37	32	29		36	32	29		35	31	29	28
8	43	35	30	27	42	34	30	26	34	29	26		33	29	26		32	29	26	25
9	40	32	27	24	39	32	27	24	31	27	24		30	26	24		30	26	24	23
10	37	30	25	22	37	29	25	22	29	24	22		28	24	22		28	24	21	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3887	3887	3887
5°	3884	3897	3919
10°	3862	3932	4010
15°	3825	3987	4135
20°	3794	4045	4278
25°	3755	4114	4439
30°	3700	4211	4899
35°	3632	4387	5728
40°	3533	4672	5426
45°	3346	4630	3787
50°	2937	3547	2406
55°	1898	2083	1724
60°	611	1012	1122
65°	185	334	432
70°	107	136	184
75°	71	90	115
80°	48	67	76
85°	38	38	57



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	223.2	4.2	2.7	0°	2343	2343	2343	2343	2343	
10°-20°	655.6	12.2	7.8	5°	2332	2332	2340	2348	2353	221
20°-30°	1039.2	19.4	12.4	15°	2227	2249	2321	2384	2407	629
30°-40°	1391.2	25.9	16.6	25°	2051	2117	2247	2372	2425	944
40°-50°	1301.9	24.3	15.5	35°	1793	1909	2166	2586	2828	1120
50°-60°	626.5	11.7	7.5	45°	1426	1622	1973	1757	1614	1088
60°-70°	109.2	2.0	1.3	55°	656	821	720	595	596	579
70°-80°	16.6	0.3	0.2	65°	47	59	85	115	110	65
80°-90°	3.0	0.1	0.0	75°	11	12	14	17	18	12
90°-100°	0.0	0.0	0.0	85°	2	2	2	3	3	2
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°	1918.0	35.7	22.8	165°	0	0	0	0	0	0
0°-40°	3309.2	61.7	39.4	175°	0	0	0	0	0	0
0°-60°	5237.6	97.6	62.4	180°	0	0	0	0	0	0
0°-90°	5366.4	100.0	63.9							
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°	5366.4	100.0	63.9							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2343	2343	2343	2343	2343
2.5°	2340	2338	2342	2346	2349
5°	2332	2332	2340	2348	2353
7.5°	2316	2320	2337	2355	2363
10°	2292	2302	2334	2366	2380
12.5°	2261	2277	2329	2379	2397
15°	2227	2249	2321	2384	2407
17.5°	2190	2220	2309	2383	2414
20°	2149	2190	2291	2384	2423
22.5°	2103	2156	2269	2382	2425
25°	2051	2117	2247	2372	2425
27.5°	1993	2073	2224	2373	2465
30°	1931	2023	2198	2412	2557
32.5°	1865	1969	2177	2487	2698
35°	1793	1909	2166	2586	2828
37.5°	1715	1845	2168	2631	2767
40°	1631	1778	2157	2484	2505
42.5°	1536	1706	2110	2165	2101
45°	1426	1622	1973	1757	1614
47.5°	1297	1512	1714	1332	1204
50°	1138	1357	1374	997	932
52.5°	926	1129	1026	769	743
55°	656	821	720	595	596
57.5°	377	491	481	452	469
60°	184	241	305	324	338
62.5°	85	114	172	207	208
65°	47	59	85	115	110
67.5°	31	37	43	59	58
70°	22	25	28	36	38
72.5°	15	17	20	24	26
75°	11	12	14	17	18
77.5°	7	9	10	11	12
80°	5	6	7	8	8
82.5°	3	4	4	5	5
85°	2	2	2	3	3
87.5°	1	1	1	1	1
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)