

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: 188P133

Luminaire Tested: **2EP3GX-332S46MI-2BC-PAF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 188P133  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2EP3GX-332S46MI-2BC-PAF  
Description: 2 X 4 Recessed Convertible Body Luminaire with a 3" deep  
24 cell specular low iridescent parabolic louver.  
Light Source: Three - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 88.9

**Summary**

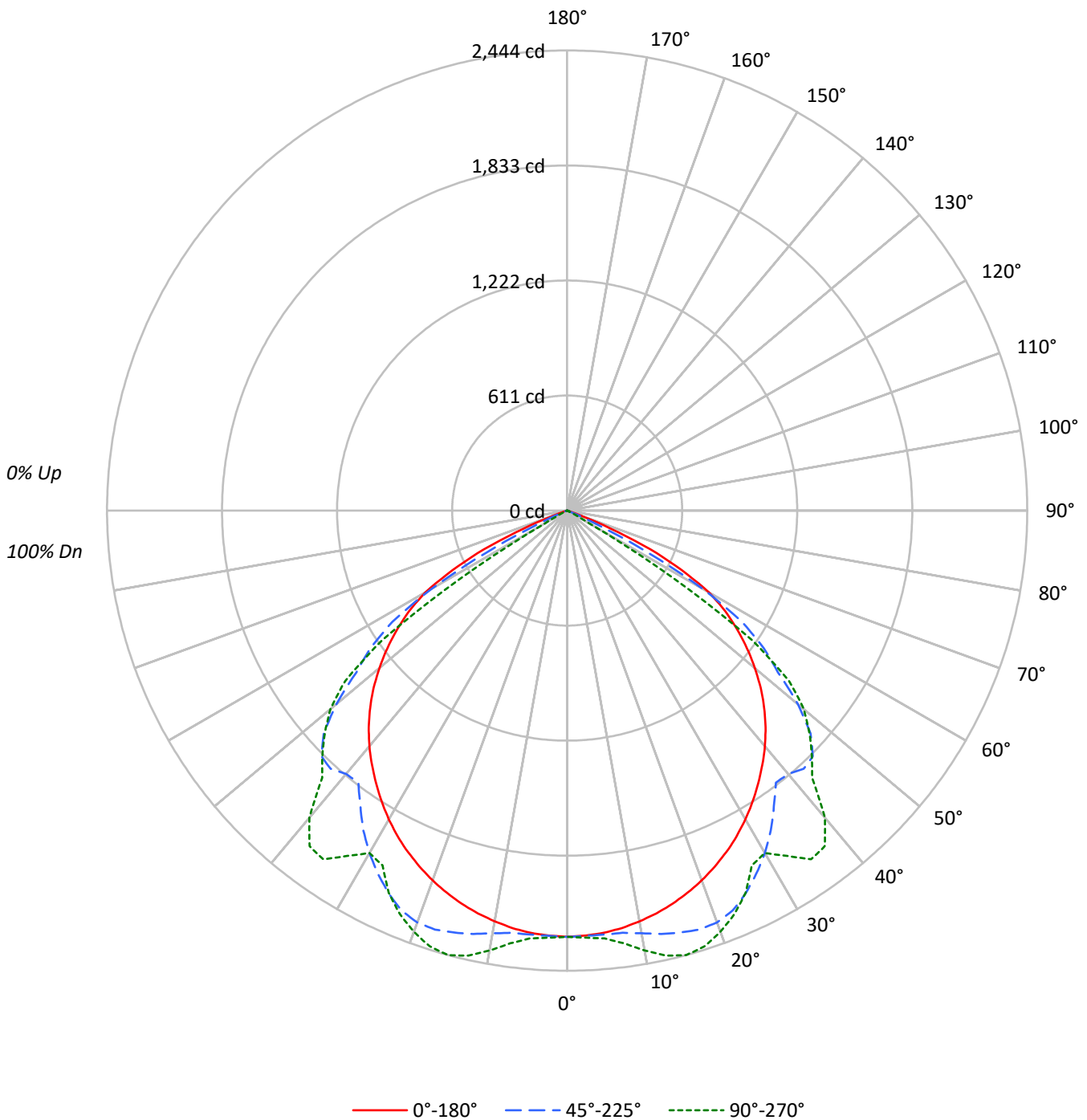
Lumens per Lamp: 2800 (3 lamps)  
Luminaire Lumens: 5763.6 lumens  
Efficiency: 68.6%  
Efficacy: 66.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.52 / 1.51  
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 86.6  
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	82	82	82	82	80	80	80	80	76	76	76	73	73	73	70	70	70	70	70	70	69	
1	76	74	72	69	75	72	70	68	69	68	66	67	65	64	64	63	62	64	63	62	61	
2	71	66	62	59	69	65	61	58	62	59	57	60	58	56	58	56	54	58	56	54	53	
3	65	59	54	50	63	58	53	50	56	52	49	54	51	48	52	50	47	52	50	47	46	
4	60	53	47	43	58	52	47	43	50	46	42	49	45	42	47	44	41	47	44	41	40	
5	55	47	42	38	54	47	41	38	45	41	37	44	40	37	43	39	36	43	39	36	35	
6	51	43	37	33	50	42	37	33	41	36	33	40	36	32	39	35	32	39	35	32	31	
7	47	39	33	29	46	38	33	29	37	33	29	36	32	29	35	32	29	35	32	29	27	
8	44	35	30	26	43	35	30	26	34	29	26	33	29	26	33	29	26	33	29	26	24	
9	41	33	27	24	40	32	27	23	31	27	23	31	26	23	30	26	23	30	26	23	22	
10	39	30	25	21	38	30	25	21	29	24	21	28	24	21	28	24	21	28	24	21	20	

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

	0°	45°	90°
0°	3758	3758	3758
5°	3751	3766	3801
10°	3733	3841	3998
15°	3715	3987	4200
20°	3692	4112	4204
25°	3665	4108	4104
30°	3630	4025	4025
35°	3585	3881	4580
40°	3541	3957	4616
45°	3474	4331	4315
50°	3362	4132	4238
55°	3195	3693	3467
60°	2892	2769	452
65°	1917	715	63
70°	243	53	39
75°	38	32	26
80°	29	19	19
85°	19	19	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	216.7	3.8	2.6	0°	2264	2264	2264	2264	2264	
10°-20°	650.8	11.3	7.7	5°	2251	2250	2260	2272	2281	214
20°-30°	1002.1	17.4	11.9	15°	2162	2188	2320	2414	2444	610
30°-40°	1246.5	21.6	14.8	25°	2001	2116	2243	2243	2241	922
40°-50°	1327.0	23.0	15.8	35°	1769	1945	1915	2121	2260	1107
50°-60°	1042.4	18.1	12.4	45°	1480	1594	1845	1784	1838	1139
60°-70°	269.0	4.7	3.2	55°	1104	1216	1276	1259	1198	982
70°-80°	8.0	0.1	0.1	65°	488	489	182	20	16	462
80°-90°	1.0	0.0	0.0	75°	6	6	5	4	4	12
90°-100°	0.0	0.0	0.0	85°	1	1	1	0	0	1
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°	1869.6	32.4	22.3	165°	0	0	0	0	0	0
0°-40°	3116.1	54.1	37.1	175°	0	0	0	0	0	0
0°-60°	5485.5	95.2	65.3	180°	0	0	0	0	0	0
0°-90°	5763.6	100.0	68.6							
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°	5763.6	100.0	68.6							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2264	2264	2264	2264	2264
2.5°	2259	2257	2261	2265	2270
5°	2251	2250	2260	2272	2281
7.5°	2236	2239	2262	2298	2318
10°	2215	2223	2279	2345	2372
12.5°	2191	2206	2303	2387	2421
15°	2162	2188	2320	2414	2444
17.5°	2128	2174	2333	2412	2427
20°	2090	2160	2328	2370	2380
22.5°	2047	2141	2299	2312	2321
25°	2001	2116	2243	2243	2241
27.5°	1950	2088	2175	2152	2124
30°	1894	2054	2100	2035	2100
32.5°	1833	2007	2014	2042	2175
35°	1769	1945	1915	2121	2260
37.5°	1703	1870	1821	2165	2247
40°	1634	1781	1826	2118	2130
42.5°	1560	1689	1860	1982	1925
45°	1480	1594	1845	1784	1838
47.5°	1394	1495	1754	1693	1745
50°	1302	1398	1600	1590	1641
52.5°	1205	1301	1412	1464	1486
55°	1104	1216	1276	1259	1198
57.5°	997	1129	1101	856	669
60°	871	980	834	367	136
62.5°	687	766	487	66	28
65°	488	489	182	20	16
67.5°	249	218	29	13	11
70°	50	54	11	8	8
72.5°	11	12	7	6	5
75°	6	6	5	4	4
77.5°	4	4	3	3	3
80°	3	3	2	2	2
82.5°	2	2	2	1	1
85°	1	1	1	0	0
87.5°	1	1	0	0	0
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)