

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: 188P138

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 188P138
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332S46MI-2NSBC-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: 5832.9 lumens
Efficiency: 69.4%
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.56 / 1.54
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

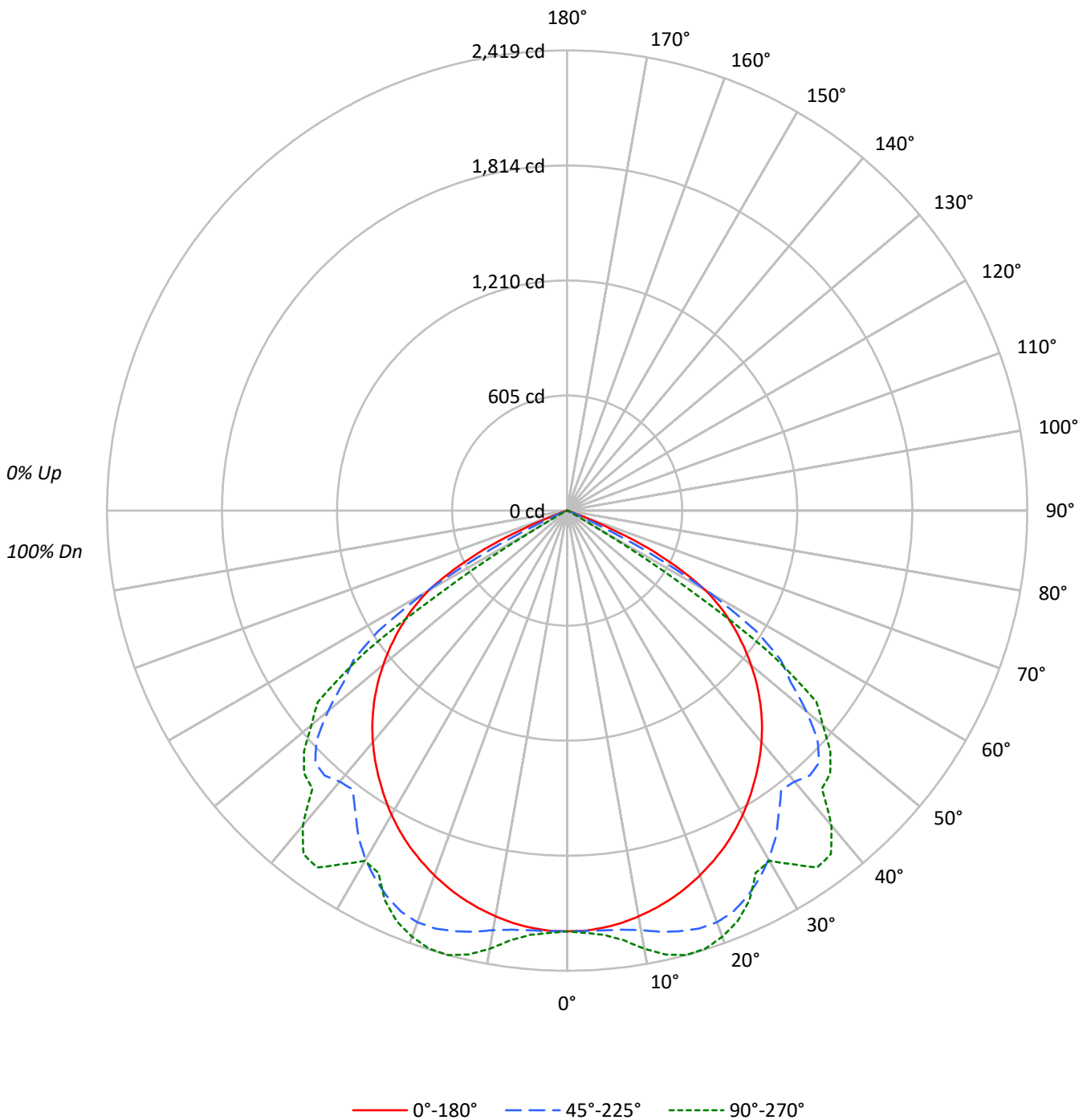
Input Watts (W): 86.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	83	83	83	83	81	81	81	81	77	77	77		74	74	74		71	71	71	69
1	77	75	72	70	75	73	71	69	70	69	67		68	66	65		65	64	63	62
2	71	67	63	59	70	65	62	59	63	60	57		61	58	56		59	57	55	54
3	66	59	55	51	64	58	54	50	56	53	49		55	51	49		53	50	48	46
4	61	53	48	44	59	52	47	43	51	46	43		49	45	42		48	44	42	40
5	56	48	42	38	54	47	42	38	46	41	37		44	40	37		43	39	37	35
6	52	43	37	33	50	42	37	33	41	36	33		40	36	33		39	35	32	31
7	48	39	33	29	47	39	33	29	37	33	29		37	32	29		36	32	29	27
8	44	36	30	26	43	35	30	26	34	29	26		33	29	26		33	29	26	24
9	42	33	27	24	41	32	27	23	31	27	23		31	26	23		30	26	23	22
10	39	30	25	21	38	30	25	21	29	24	21		28	24	21		28	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3672	3672	3672
5°	3667	3691	3731
10°	3651	3774	3941
15°	3631	3934	4157
20°	3605	4068	4211
25°	3577	4101	4147
30°	3540	4060	4075
35°	3492	3931	4643
40°	3443	4030	4685
45°	3373	4397	4589
50°	3259	4238	4532
55°	3094	3968	3739
60°	2805	2882	452
65°	1874	742	67
70°	243	53	39
75°	38	32	26
80°	29	29	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°	212.5	3.6	2.5	0°	2212	2212	2212	2212	2212	
10°-20°	641.7	11.0	7.6	5°	2201	2200	2215	2229	2239	209
20°-30°	998.6	17.1	11.9	15°	2113	2148	2289	2386	2419	596
30°-40°	1251.8	21.5	14.9	25°	1953	2086	2239	2263	2264	900
40°-50°	1356.7	23.3	16.2	35°	1723	1930	1940	2149	2291	1078
50°-60°	1087.8	18.6	12.9	45°	1437	1613	1873	1847	1955	1106
60°-70°	274.5	4.7	3.3	55°	1069	1244	1371	1369	1292	951
70°-80°	8.3	0.1	0.1	65°	477	501	189	22	17	451
80°-90°	1.1	0.0	0.0	75°	6	6	5	5	4	13
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°	1852.8	31.8	22.1	165°	0	0	0	0	0	0
0°-40°	3104.6	53.2	37.0	175°	0	0	0	0	0	0
0°-60°	5549.1	95.1	66.1	180°	0	0	0	0	0	0
0°-90°	5832.9	100.0	69.4							
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°	5832.9	100.0	69.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2212	2212	2212	2212	2212
2.5°	2210	2206	2212	2217	2222
5°	2201	2200	2215	2229	2239
7.5°	2187	2192	2222	2258	2278
10°	2166	2179	2239	2311	2338
12.5°	2141	2164	2268	2356	2390
15°	2113	2148	2289	2386	2419
17.5°	2079	2135	2304	2392	2414
20°	2041	2123	2303	2365	2384
22.5°	1998	2108	2282	2322	2338
25°	1953	2086	2239	2263	2264
27.5°	1902	2060	2184	2175	2147
30°	1847	2029	2118	2059	2126
32.5°	1786	1985	2039	2071	2204
35°	1723	1930	1940	2149	2291
37.5°	1658	1863	1849	2193	2277
40°	1589	1785	1860	2151	2162
42.5°	1516	1702	1888	2021	1982
45°	1437	1613	1873	1847	1955
47.5°	1353	1520	1786	1805	1877
50°	1262	1429	1641	1725	1755
52.5°	1168	1335	1480	1567	1652
55°	1069	1244	1371	1369	1292
57.5°	965	1151	1174	914	677
60°	845	999	868	374	136
62.5°	670	787	516	69	31
65°	477	501	189	22	17
67.5°	242	223	30	13	12
70°	50	54	11	9	8
72.5°	12	12	7	6	6
75°	6	6	5	5	4
77.5°	4	4	4	3	3
80°	3	3	3	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)