

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: 114P111

Luminaire Tested: **EP3GX-2048-332S38I-2BC-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 114P111
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GX-2048-332S38I-2BC-PAF
Description: 20" X 48" Recessed Troffer with a 3" deep 24 cell semi-specular parabolic louver.
Light Source: Three F32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 88.9

Summary

Lumens per Lamp: 2850 (3 lamps)
Luminaire Lumens: 5867.0 lumens
Efficiency: 68.6%
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.42 / 1.36
Luminous Opening: Rectangular (W 1.4' x L: 3.75' x H: 0')
CIE Type: Direct

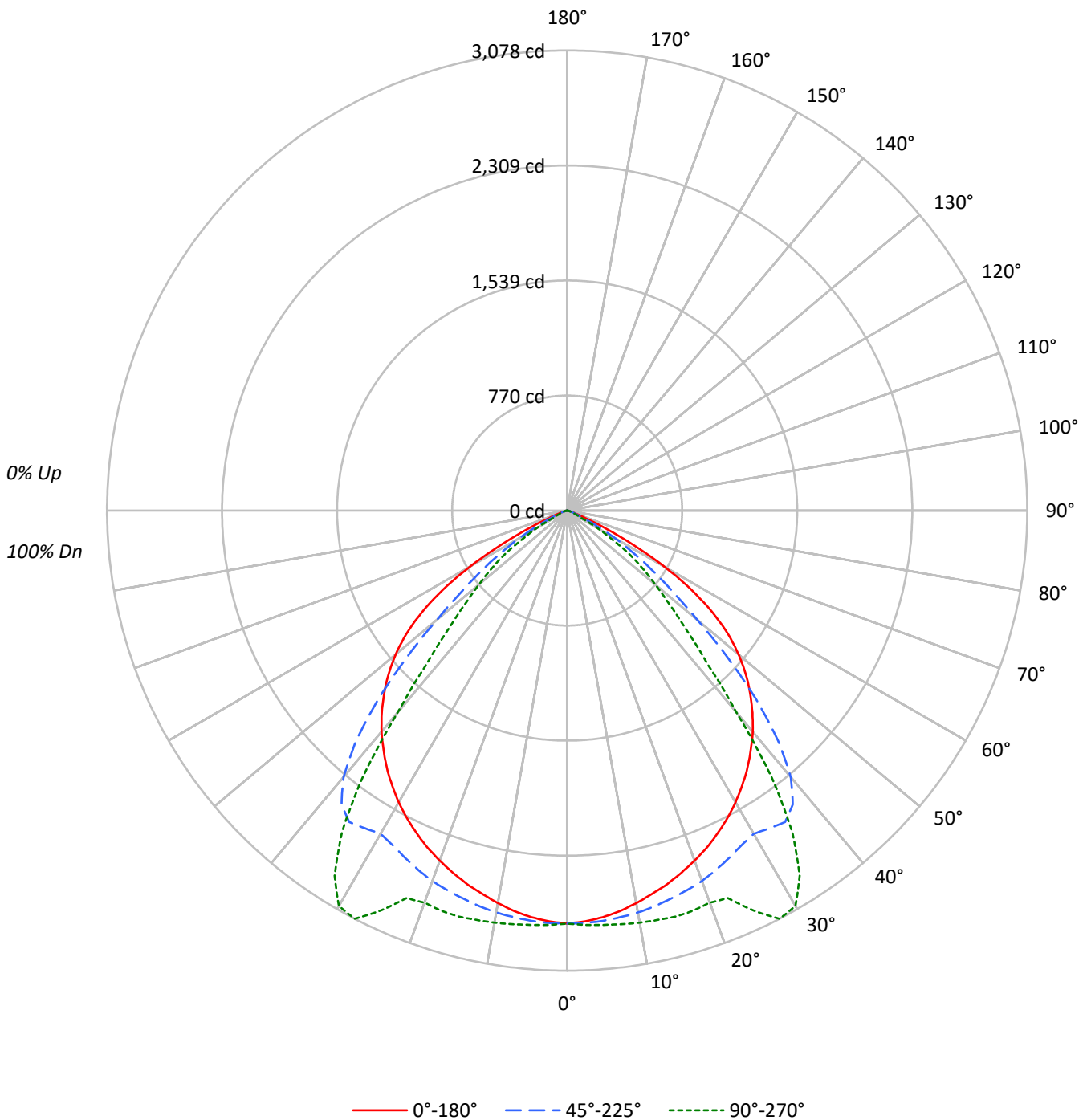
Input Watts (W): 86.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	82	82	82	80	80	80	80	76	76	76	73	73	73	70	70	70	69
1	77	74	72	70	75	73	71	69	70	68	67	67	66	65	65	64	63	62
2	71	67	63	60	70	66	62	60	63	61	58	61	59	57	59	57	56	54
3	66	60	56	52	65	59	55	52	57	54	51	56	53	50	54	51	49	48
4	61	55	50	46	60	54	49	45	52	48	45	51	47	44	49	46	44	42
5	57	49	44	40	56	49	44	40	47	43	40	46	42	39	45	42	39	38
6	53	45	40	36	52	44	39	36	43	39	35	42	38	35	41	38	35	34
7	49	41	36	32	48	41	36	32	40	35	32	39	35	32	38	34	31	30
8	46	38	33	29	45	37	32	29	36	32	29	36	32	29	35	31	28	27
9	43	35	30	26	42	34	30	26	34	29	26	33	29	26	32	29	26	25
10	41	32	27	24	40	32	27	24	31	27	24	31	27	24	30	26	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5682	5682	5682
5°	5638	5687	5743
10°	5567	5701	5845
15°	5508	5721	5985
20°	5454	5771	6108
25°	5405	5816	6700
30°	5350	5927	7254
35°	5279	6382	6595
40°	5186	6249	4730
45°	5037	5206	3275
50°	4792	3631	2463
55°	4256	2474	1818
60°	3105	1505	979
65°	1406	599	316
70°	361	271	198
75°	167	175	143
80°	95	118	95
85°	24	47	47



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	262.2	4.5	3.1	0°	2763	2763	2763	2763	2763	
10°-20°	761.0	13.0	8.9	5°	2731	2737	2755	2771	2782	259
20°-30°	1208.9	20.6	14.1	15°	2587	2616	2687	2769	2811	730
30°-40°	1496.0	25.5	17.5	25°	2382	2441	2563	2743	2953	1098
40°-50°	1217.9	20.8	14.2	35°	2103	2196	2542	2641	2627	1314
50°-60°	717.8	12.2	8.4	45°	1732	1850	1790	1215	1126	1332
60°-70°	175.4	3.0	2.1	55°	1187	1197	690	524	507	1039
70°-80°	24.7	0.4	0.3	65°	289	194	123	81	65	326
80°-90°	3.2	0.1	0.0	75°	21	23	22	20	18	27
90°-100°	0.0	0.0	0.0	85°	1	2	2	3	2	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°	2232.1	38.0	26.1	165°	0	0	0	0	0	0
0°-40°	3728.0	63.5	43.6	175°	0	0	0	0	0	0
0°-60°	5663.7	96.5	66.2	180°	0	0	0	0	0	0
0°-90°	5867.0	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°	5867.0	100.0	68.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2763	2763	2763	2763	2763
2.5°	2750	2752	2761	2768	2775
5°	2731	2737	2755	2771	2782
7.5°	2702	2712	2743	2775	2791
10°	2666	2683	2730	2776	2799
12.5°	2626	2650	2711	2772	2805
15°	2587	2616	2687	2769	2811
17.5°	2540	2578	2663	2756	2806
20°	2492	2537	2637	2735	2791
22.5°	2440	2492	2602	2712	2805
25°	2382	2441	2563	2743	2953
27.5°	2320	2387	2524	2870	3078
30°	2253	2328	2496	2917	3055
32.5°	2179	2265	2519	2839	2895
35°	2103	2196	2542	2641	2627
37.5°	2018	2120	2479	2350	2247
40°	1932	2039	2328	1965	1762
42.5°	1835	1950	2091	1536	1389
45°	1732	1850	1790	1215	1126
47.5°	1622	1739	1457	979	926
50°	1498	1612	1135	799	770
52.5°	1358	1439	885	655	637
55°	1187	1197	690	524	507
57.5°	988	900	521	394	350
60°	755	593	366	257	238
62.5°	506	346	226	150	104
65°	289	194	123	81	65
67.5°	130	104	68	55	46
70°	60	55	45	39	33
72.5°	35	34	31	28	24
75°	21	23	22	20	18
77.5°	13	15	15	14	13
80°	8	9	10	10	8
82.5°	4	5	5	6	5
85°	1	2	2	3	2
87.5°	0	0	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)