

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: 188P113

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 188P113
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332S38I-2BC-PAF
Description: 2 X 4 Recessed Convertible Body Troffer with a 3" deep
24 cell semi-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: 6049.6 lumens
Efficiency: 72.0%
Efficacy: 69.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.67 / 1.53
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

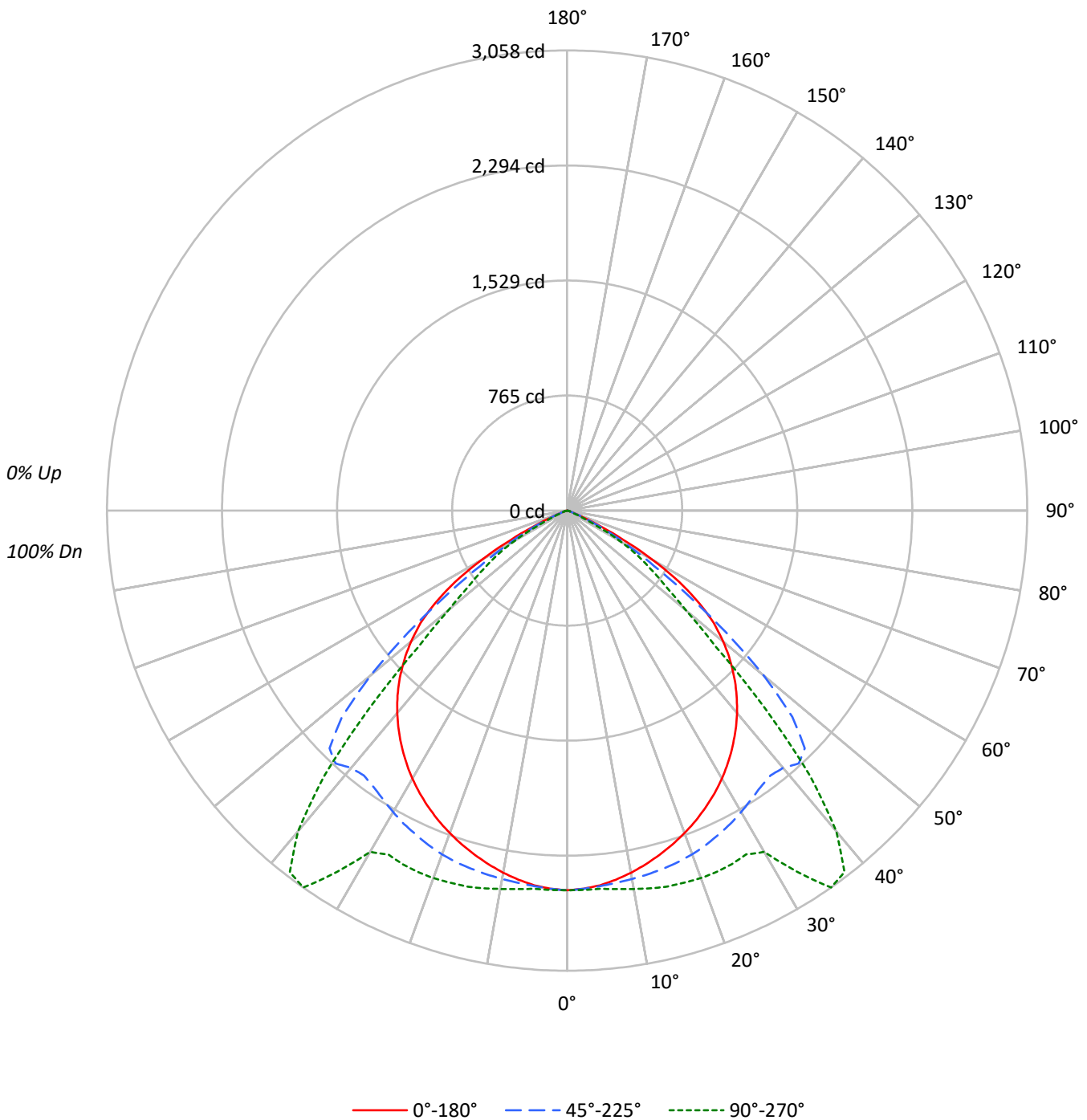
Input Watts (W): 86.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	86	86	86	86	84	84	84	84	80	80	80	77	77	77	73	73	73	72				
1	80	78	75	73	78	76	74	72	73	71	70	70	69	68	68	67	66	64				
2	74	70	66	62	73	68	65	62	66	63	60	64	61	59	62	60	58	56				
3	69	63	58	54	67	61	57	53	59	56	52	58	54	52	56	53	51	49				
4	64	56	51	47	62	55	50	46	54	49	46	52	48	45	51	47	45	43				
5	59	51	45	41	57	50	45	41	48	44	40	47	43	40	46	42	39	38				
6	55	46	40	36	53	45	40	36	44	39	36	43	39	35	42	38	35	34				
7	51	42	36	32	49	41	36	32	40	35	32	39	35	31	38	34	31	30				
8	47	38	33	29	46	38	32	29	37	32	28	36	31	28	35	31	28	27				
9	44	35	30	26	43	35	29	26	34	29	26	33	29	26	32	28	25	24				
10	41	32	27	23	40	32	27	23	31	27	23	31	26	23	30	26	23	22				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4188	4188	4188
5°	4166	4174	4204
10°	4119	4190	4303
15°	4071	4234	4444
20°	4029	4294	4591
25°	3987	4354	4747
30°	3943	4433	5020
35°	3883	4543	6197
40°	3805	4837	6028
45°	3690	5242	4366
50°	3499	4398	2655
55°	3100	2813	1962
60°	2194	1594	1348
65°	876	699	401
70°	228	209	150
75°	115	122	96
80°	76	86	67
85°	57	57	38



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	238.9	3.9	2.8	0°	2523	2523	2523	2523	2523	
10°-20°	698.1	11.5	8.3	5°	2500	2498	2505	2518	2523	237
20°-30°	1098.5	18.2	13.1	15°	2369	2385	2464	2548	2586	669
30°-40°	1470.1	24.3	17.5	25°	2177	2239	2377	2515	2592	1003
40°-50°	1454.8	24.0	17.3	35°	1916	2030	2242	2722	3058	1198
50°-60°	851.4	14.1	10.1	45°	1572	1736	2233	2028	1860	1208
60°-70°	212.9	3.5	2.5	55°	1071	1275	972	685	678	934
70°-80°	21.5	0.4	0.3	65°	223	211	178	131	102	267
80°-90°	3.4	0.1	0.0	75°	18	20	19	17	15	22
90°-100°	0.0	0.0	0.0	85°	3	2	3	3	2	3
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°	2035.5	33.6	24.2	165°	0	0	0	0	0	0
0°-40°	3505.6	57.9	41.7	175°	0	0	0	0	0	0
0°-60°	5811.8	96.1	69.2	180°	0	0	0	0	0	0
0°-90°	6049.6	100.0	72.0							
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°	6049.6	100.0	72.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2523	2523	2523	2523	2523
2.5°	2515	2514	2516	2521	2523
5°	2500	2498	2505	2518	2523
7.5°	2474	2474	2495	2524	2536
10°	2444	2446	2486	2534	2553
12.5°	2408	2416	2476	2543	2571
15°	2369	2385	2464	2548	2586
17.5°	2327	2352	2450	2545	2592
20°	2281	2317	2431	2539	2599
22.5°	2231	2280	2406	2531	2599
25°	2177	2239	2377	2515	2592
27.5°	2119	2194	2348	2493	2576
30°	2057	2144	2313	2474	2619
32.5°	1989	2090	2276	2528	2847
35°	1916	2030	2242	2722	3058
37.5°	1839	1964	2219	2835	3027
40°	1756	1891	2232	2733	2782
42.5°	1668	1816	2279	2444	2387
45°	1572	1736	2233	2028	1860
47.5°	1468	1650	2029	1545	1339
50°	1355	1558	1703	1123	1028
52.5°	1227	1441	1328	865	823
55°	1071	1275	972	685	678
57.5°	884	1036	686	545	554
60°	661	723	480	411	406
62.5°	421	415	312	264	232
65°	223	211	178	131	102
67.5°	96	103	87	62	49
70°	47	51	43	36	31
72.5°	28	31	27	24	21
75°	18	20	19	17	15
77.5°	12	13	13	11	10
80°	8	8	9	8	7
82.5°	4	5	5	5	4
85°	3	2	3	3	2
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)