

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: 125P146

Luminaire Tested: **2P5GX-332S39VDT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 125P146  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2P5GX-332S39VDT  
Description: 2 X 4 Recessed Convertible Body Troffer with a 27 cell semi-specular low iridescent precision cell II parabolic louver of Alcoa material 703.  
Light Source: Three-F32T8/35K - 2850 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Two-Triad-Utrad B232I120RH Electronic

**Summary**

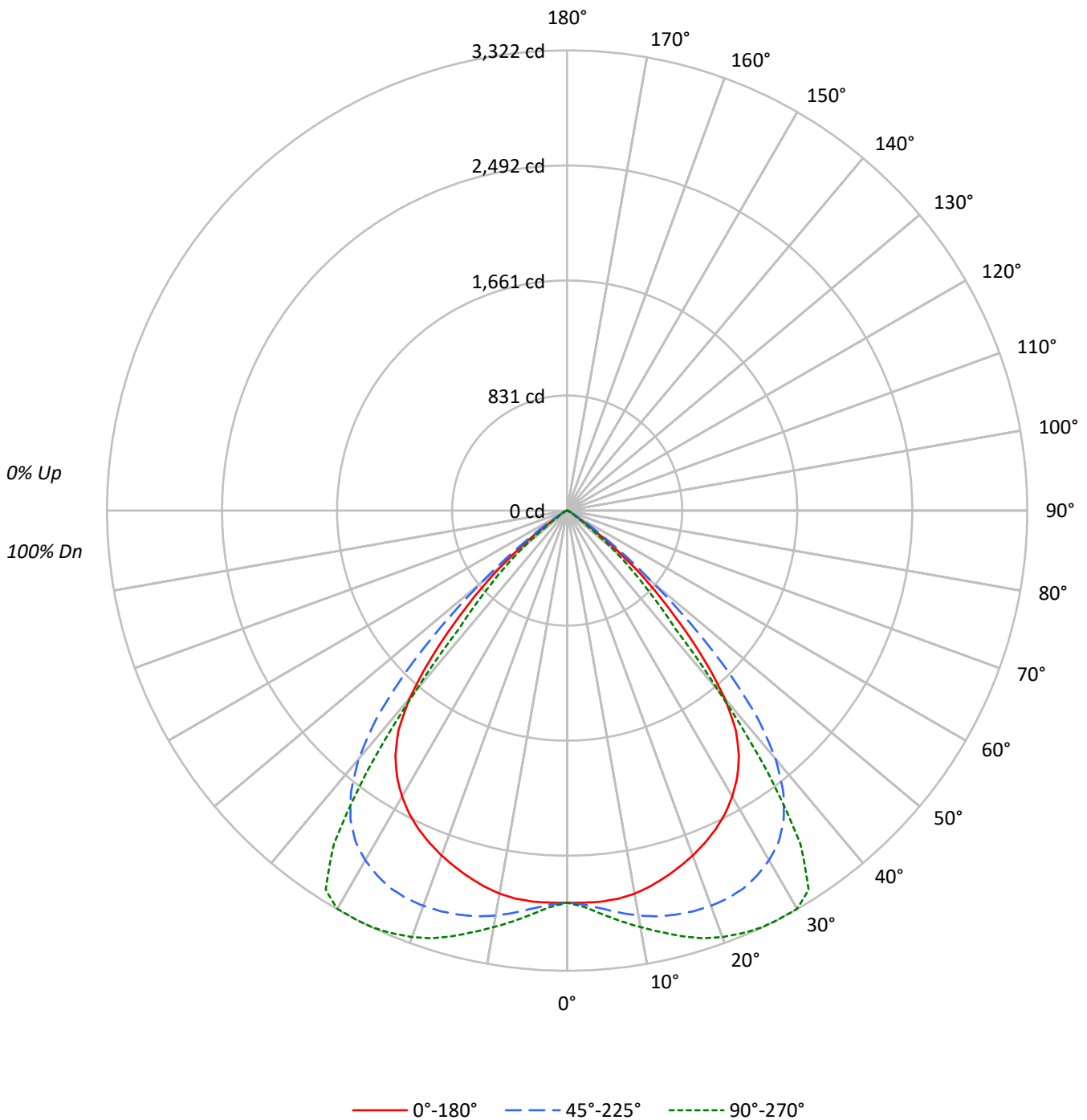
Lumens per Lamp: 2850 (3 lamps)  
Luminaire Lumens: 5389.2 lumens  
Efficiency: 63.0%  
Efficacy: 54.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.46 / 1.33  
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 98.6  
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	75	75	75	75	73	73	73	73	70	70	70		67	67	67		64	64	64	63
1	71	69	67	65	69	68	66	64	65	64	62		63	62	61		60	60	59	58
2	67	63	60	57	65	62	59	57	60	57	56		58	56	54		56	55	53	52
3	62	58	54	51	61	57	53	50	55	52	50		53	51	49		52	50	48	47
4	58	53	48	45	57	52	48	45	50	47	44		49	46	44		48	45	43	42
5	55	48	44	41	53	48	44	40	46	43	40		45	42	40		44	42	39	38
6	51	44	40	37	50	44	40	36	43	39	36		42	38	36		41	38	36	35
7	48	41	36	33	47	40	36	33	40	36	33		39	35	33		38	35	32	31
8	45	38	33	30	44	37	33	30	37	33	30		36	32	30		35	32	30	29
9	42	35	31	28	41	35	30	28	34	30	27		33	30	27		33	30	27	26
10	40	32	28	25	39	32	28	25	32	28	25		31	28	25		31	27	25	24

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

	0°	45°	90°
0°	4685	4685	4685
5°	4707	4791	4860
10°	4719	4990	5131
15°	4693	5175	5447
20°	4667	5347	5770
25°	4633	5497	6065
30°	4556	5571	6343
35°	4368	5508	5930
40°	3822	5060	3682
45°	2696	3846	2015
50°	1563	2070	1061
55°	465	773	239
60°	162	185	132
65°	106	102	94
70°	73	73	68
75°	51	58	51
80°	29	38	38
85°	0	19	19



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	277.2	5.1	3.2	0°	2831	2831	2831	2831	2831	
10°-20°	847.9	15.7	9.9	5°	2833	2849	2884	2910	2925	270
20°-30°	1373.2	25.5	16.1	15°	2739	2855	3020	3137	3179	773
30°-40°	1614.2	30.0	18.9	25°	2537	2742	3010	3245	3321	1167
40°-50°	1006.0	18.7	11.8	35°	2162	2435	2726	2931	2935	1331
50°-60°	231.4	4.3	2.7	45°	1152	1542	1643	971	861	893
60°-70°	28.6	0.5	0.3	55°	161	266	268	144	83	202
70°-80°	9.4	0.2	0.1	65°	27	29	26	26	24	28
80°-90°	1.3	0.0	0.0	75°	8	9	9	9	8	9
90°-100°	0.0	0.0	0.0	85°	0	1	1	1	1	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°	2498.3	46.4	29.2	165°	0	0	0	0	0	0
0°-40°	4112.5	76.3	48.1	175°	0	0	0	0	0	0
0°-60°	5349.9	99.3	62.6	180°	0	0	0	0	0	0
0°-90°	5389.2	100.0	63.0							
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°	5389.2	100.0	63.0							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2831	2831	2831	2831	2831
2.5°	2833	2837	2847	2856	2864
5°	2833	2849	2884	2910	2925
7.5°	2826	2865	2928	2972	2991
10°	2808	2871	2969	3030	3053
12.5°	2778	2868	3000	3084	3116
15°	2739	2855	3020	3137	3179
17.5°	2696	2837	3033	3188	3237
20°	2650	2813	3036	3223	3276
22.5°	2597	2784	3030	3239	3303
25°	2537	2742	3010	3245	3321
27.5°	2467	2691	2970	3227	3322
30°	2384	2627	2915	3186	3319
32.5°	2285	2544	2840	3110	3244
35°	2162	2435	2726	2931	2935
37.5°	2000	2295	2564	2549	2375
40°	1769	2105	2342	1997	1704
42.5°	1471	1854	2038	1419	1152
45°	1152	1542	1643	971	861
47.5°	866	1204	1209	711	628
50°	607	865	804	499	412
52.5°	358	540	486	301	210
55°	161	266	268	144	83
57.5°	74	112	126	68	53
60°	49	59	56	46	40
62.5°	36	40	35	35	31
65°	27	29	26	26	24
67.5°	20	22	20	20	18
70°	15	16	15	15	14
72.5°	11	12	12	12	10
75°	8	9	9	9	8
77.5°	6	6	6	6	6
80°	3	4	4	4	4
82.5°	2	2	2	2	2
85°	0	1	1	1	1
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)