

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: 125P131

Luminaire Tested: **2P5GX-332S39M/I**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 125P131  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2P5GX-332S39M/I  
Description: 2 X 4 Recessed Convertible Body Troffer with a  
27 cell specular low iridescent precision cell  
II parabolic louver.  
Light Source: Three-FO32T8/31K - 2900 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Triad-Utrad B332I120 Electronic

**Summary**

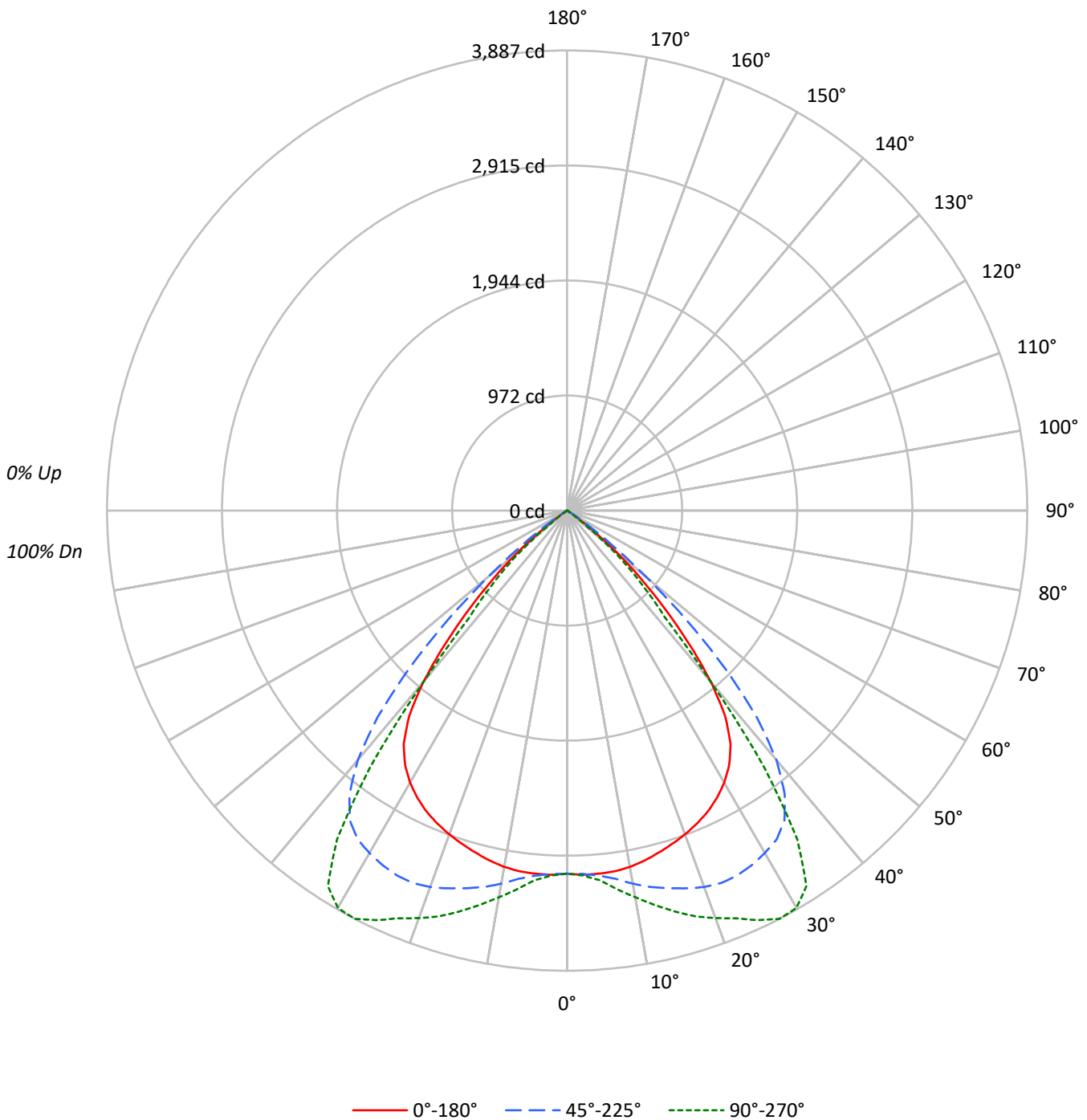
Lumens per Lamp: 2900 (3 lamps)  
Luminaire Lumens: 5936.4 lumens  
Efficiency: 68.2%  
Efficacy: 68.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.49 / 1.35  
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')  
CIE Type: Direct

Input Watts (W): 86.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	81	81	81	81	79	79	79	79	76	76	76		73	73	73		70	70	70	68
1	77	75	73	71	75	73	71	70	70	69	68		68	67	66		65	65	64	63
2	72	68	65	63	71	67	64	62	65	63	60		63	61	59		61	59	58	57
3	68	63	59	55	66	62	58	55	60	57	54		58	55	53		56	54	52	51
4	63	57	53	50	62	57	52	49	55	51	49		54	50	48		52	50	47	46
5	59	53	48	44	58	52	48	44	51	47	44		49	46	43		48	45	43	42
6	56	48	44	40	54	48	43	40	47	43	40		46	42	39		45	42	39	38
7	52	45	40	36	51	44	39	36	43	39	36		42	39	36		41	38	36	34
8	49	41	36	33	48	41	36	33	40	36	33		39	35	33		38	35	33	31
9	46	38	33	30	45	38	33	30	37	33	30		36	33	30		36	32	30	29
10	43	35	31	28	42	35	31	28	34	30	28		34	30	27		33	30	27	26

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

	0°	45°	90°
0°	5054	5054	5054
5°	5093	5119	5182
10°	5113	5354	5550
15°	5102	5633	5979
20°	5103	5934	6423
25°	5103	6183	6940
30°	5048	6355	7373
35°	4842	6435	6815
40°	4061	5913	4035
45°	2670	4393	2165
50°	1353	2194	979
55°	233	621	83
60°	56	56	40
65°	43	27	27
70°	29	19	19
75°	19	13	13
80°	9	9	0
85°	0	0	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	299.0	5.0	3.4	0°	3067	3067	3067	3067	3067	
10°-20°	929.9	15.7	10.7	5°	3079	3079	3095	3122	3133	293
20°-30°	1554.8	26.2	17.9	15°	2991	3090	3302	3461	3505	845
30°-40°	1858.5	31.3	21.4	25°	2807	3065	3401	3697	3817	1291
40°-50°	1098.8	18.5	12.6	35°	2407	2786	3199	3399	3388	1470
50°-60°	184.2	3.1	2.1	45°	1146	1669	1885	1024	929	895
60°-70°	8.6	0.1	0.1	55°	81	172	216	72	29	138
70°-80°	2.5	0.0	0.0	65°	11	9	7	7	7	11
80°-90°	0.1	0.0	0.0	75°	3	3	2	2	2	3
90°-100°	0.0	0.0	0.0	85°	0	0	0	0	0	0
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°	2783.7	46.9	32.0	165°	0	0	0	0	0	0
0°-40°	4642.3	78.2	53.4	175°	0	0	0	0	0	0
0°-60°	5925.2	99.8	68.1	180°	0	0	0	0	0	0
0°-90°	5936.4	100.0	68.2							
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°	5936.4	100.0	68.2							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3067	3067	3067	3067	3067
2.5°	3079	3071	3072	3082	3085
5°	3079	3079	3095	3122	3133
7.5°	3074	3087	3137	3203	3224
10°	3056	3089	3200	3292	3317
12.5°	3027	3089	3257	3373	3412
15°	2991	3090	3302	3461	3505
17.5°	2952	3092	3346	3543	3593
20°	2910	3091	3384	3606	3663
22.5°	2863	3084	3404	3653	3727
25°	2807	3065	3401	3697	3817
27.5°	2737	3034	3377	3758	3887
30°	2653	2981	3340	3752	3875
32.5°	2547	2901	3293	3644	3761
35°	2407	2786	3199	3399	3388
37.5°	2194	2628	3019	2931	2740
40°	1888	2392	2749	2293	1876
42.5°	1519	2062	2371	1545	1216
45°	1146	1669	1885	1024	929
47.5°	826	1254	1360	758	664
50°	528	837	856	500	382
52.5°	253	454	466	243	133
55°	81	172	216	72	29
57.5°	26	45	68	21	16
60°	17	18	17	13	12
62.5°	13	12	10	10	10
65°	11	9	7	7	7
67.5°	8	7	5	5	5
70°	6	5	4	4	4
72.5°	4	3	3	3	3
75°	3	3	2	2	2
77.5°	2	2	1	1	1
80°	1	1	1	1	0
82.5°	0	0	0	0	0
85°	0	0	0	0	0
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)