

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: 150P110

Luminaire Tested: **P5GAX-132S19W/B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 150P110
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: P5GAX-132S19W/B
Description: 1 X 4 Recessed Convertible Body Troffer with a wall wash precision cell II parabolic louver. Longitudinal louver segment facing the wall is painted white with segment facing away from wall painted black. Cross vane finish is specular low iridescent.
Light Source: F32T8/31K - 2900 Lumens - 32 Watts
Ballast/Driver:

Summary

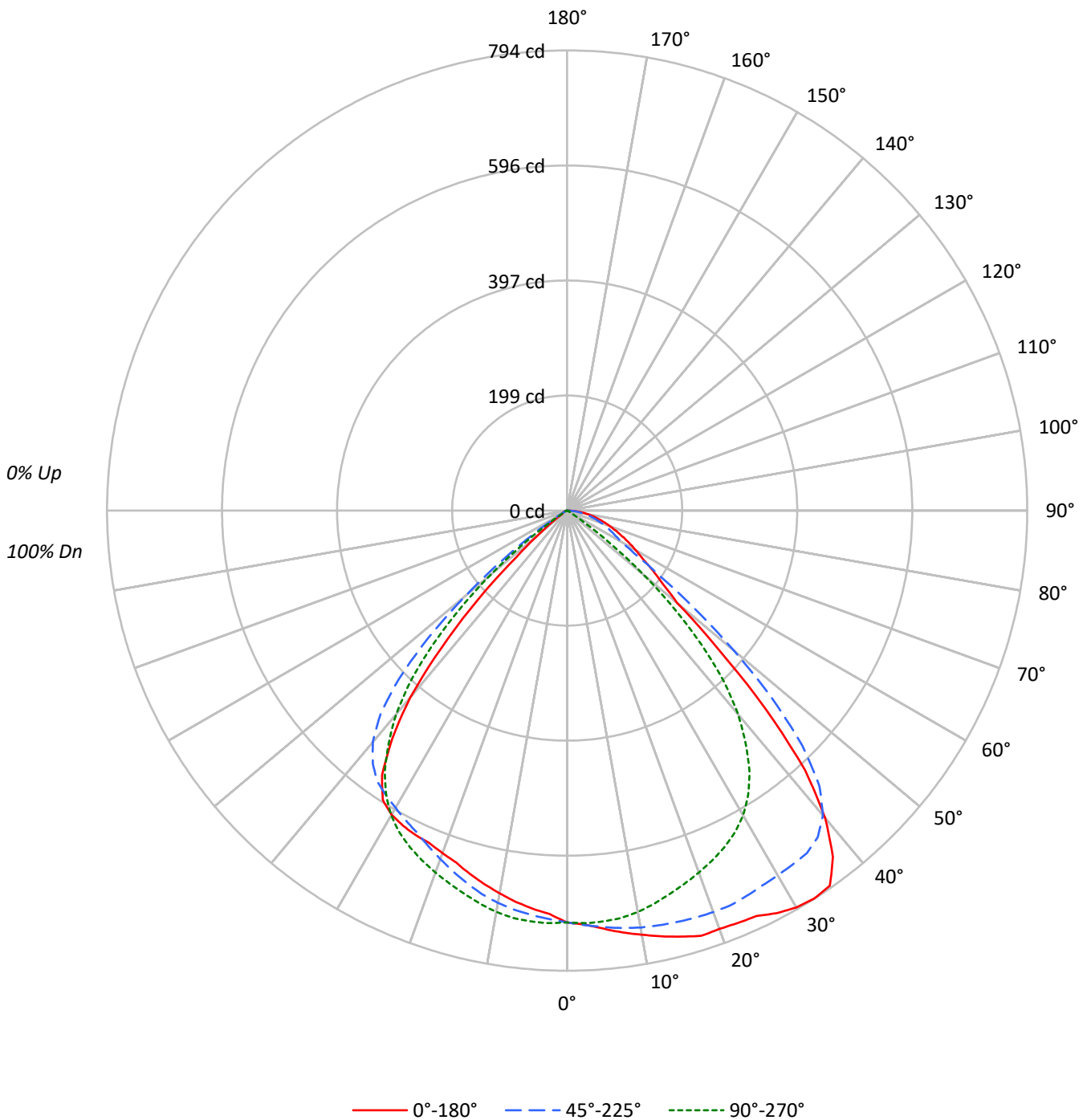
Lumens per Lamp: 2900 (1 lamp)
Luminaire Lumens: 1445.0 lumens
Efficiency: 49.8%
Efficacy: 38.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.26 / 1.4
Luminous Opening: Rectangular (W 3.77' x L: 0.73' x H: 0')
CIE Type: Direct

Input Watts (W): 37.7
Input Voltage (V): NR
Input Current (A_{in}): 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	59	59	59	59	58	58	58	58	55	55	55	53	53	53	51	51	51	50
1	56	54	52	51	54	53	51	50	51	50	48	49	48	47	47	46	46	45
2	52	49	46	44	51	48	45	43	46	44	42	45	43	41	43	42	41	40
3	48	44	41	38	47	43	40	38	42	39	37	41	39	37	39	38	36	35
4	45	40	36	34	44	39	36	34	38	35	33	37	35	33	36	34	32	31
5	42	36	33	30	41	36	32	30	35	32	30	34	31	29	33	31	29	28
6	39	33	30	27	38	33	29	27	32	29	26	31	28	26	31	28	26	25
7	36	31	27	24	36	30	27	24	29	26	24	29	26	24	28	26	24	23
8	34	28	24	22	33	28	24	22	27	24	22	27	24	22	26	23	21	21
9	32	26	22	20	31	26	22	20	25	22	20	25	22	20	24	21	20	19
10	30	24	20	18	29	24	20	18	23	20	18	23	20	18	22	20	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	2766	2766	2766
5°	2830	2781	2694
10°	2937	2780	2651
15°	3067	2759	2615
20°	3182	2753	2605
25°	3316	2754	2654
30°	3555	2730	2723
35°	3755	2606	2646
40°	3519	2332	2139
45°	2674	1809	1198
50°	1500	1046	380
55°	1225	271	77
60°	1063	57	69
65°	963	41	61
70°	890	30	55
75°	841	24	48
80°	825	20	43
85°	844	13	40



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	67.8	4.7	2.3	0°	711	711	711	711	711	
10°-20°	197.5	13.7	6.8	5°	724	721	712	701	689	70
20°-30°	311.1	21.5	10.7	15°	761	735	685	666	649	216
30°-40°	390.8	27.0	13.5	25°	772	733	641	613	618	360
40°-50°	313.3	21.7	10.8	35°	790	721	548	571	557	482
50°-60°	99.4	6.9	3.4	45°	486	574	329	410	218	366
60°-70°	37.5	2.6	1.3	55°	180	191	40	72	11	164
70°-80°	21.2	1.5	0.7	65°	104	83	4	6	7	105
80°-90°	6.5	0.4	0.2	75°	56	44	2	3	3	60
90°-100°	0.0	0.0	0.0	85°	19	13	0	1	1	19
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	1
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°	576.4	39.9	19.9	165°	0	0	0	0	0	0
0°-40°	967.2	66.9	33.4	175°	0	0	0	0	0	0
0°-60°	1379.9	95.5	47.6	180°	0	0	0	0	0	0
0°-90°	1445.0	100.0	49.8							
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°	1445.0	100.0	49.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	710.6	710.6	710.6	710.6	710.6	710.6	710.6	710.6	710.6
2.5°	715.0	719.0	716.0	713.8	712.5	708.6	705.4	705.0	696.8
5°	724.2	726.5	721.2	716.3	711.8	705.6	700.6	698.4	689.4
7.5°	734.3	734.4	726.6	717.4	709.2	701.1	694.8	691.0	680.8
10°	743.1	741.6	730.5	716.1	703.2	693.6	687.3	683.0	670.6
12.5°	752.6	749.2	733.1	712.1	694.7	683.4	677.9	673.8	660.2
15°	761.1	756.1	734.8	706.8	684.7	671.8	666.0	663.4	649.0
17.5°	769.3	762.6	736.3	701.7	674.8	659.6	653.2	651.7	636.7
20°	768.1	761.6	737.2	697.4	664.6	648.0	640.0	639.5	628.9
22.5°	770.0	760.2	737.2	693.8	653.5	636.3	626.5	630.9	621.1
25°	772.1	759.9	733.4	689.9	641.2	623.9	613.1	622.1	618.0
27.5°	783.0	764.4	729.4	685.9	626.4	611.1	602.8	617.0	613.1
30°	790.8	771.4	726.6	679.6	607.3	596.1	592.2	610.3	605.9
32.5°	793.6	769.5	724.1	669.2	581.4	577.6	582.0	598.2	592.0
35°	790.1	761.0	721.4	653.1	548.4	555.4	570.8	578.2	556.8
37.5°	753.3	733.8	710.1	632.1	505.8	530.3	550.7	540.8	495.7
40°	692.5	675.1	686.7	602.8	459.0	499.6	521.7	478.1	420.9
42.5°	607.8	594.8	644.1	560.9	400.7	461.8	476.8	399.3	321.5
45°	485.7	489.5	573.9	494.3	328.6	404.7	410.5	304.2	217.6
47.5°	352.0	370.6	480.1	397.8	251.7	322.4	324.2	202.1	117.8
50°	247.7	268.8	374.5	286.1	172.8	223.8	229.0	111.8	62.8
52.5°	208.7	206.1	274.4	182.8	97.8	130.5	141.8	55.5	33.7
55°	180.5	174.2	190.6	106.6	39.9	60.6	72.4	29.2	11.3
57.5°	154.2	147.8	136.7	66.2	12.3	21.5	30.5	12.6	10.0
60°	136.5	128.0	107.7	51.8	7.3	8.3	11.4	9.1	8.9
62.5°	120.1	111.1	93.9	47.2	5.6	5.8	7.1	7.8	7.7
65°	104.5	95.4	83.1	43.4	4.5	4.8	5.8	6.7	6.6
67.5°	90.8	81.9	72.9	39.5	3.5	4.1	4.9	5.7	5.8
70°	78.2	70.1	63.0	35.3	2.6	3.4	4.3	4.8	4.8
72.5°	66.8	59.3	53.6	30.8	2.0	2.8	3.5	4.0	4.0
75°	55.9	49.4	44.5	25.7	1.6	2.3	2.9	3.2	3.2
77.5°	46.0	40.2	36.0	20.8	1.4	1.8	2.3	2.6	2.5
80°	36.8	31.5	28.1	15.4	0.9	1.2	1.7	2.0	1.9
82.5°	27.5	23.1	20.4	10.4	0.6	0.9	1.3	1.5	1.4
85°	18.9	15.0	12.9	5.7	0.3	0.5	0.8	1.0	0.9
87.5°	10.3	7.0	5.6	2.1	0.2	0.2	0.4	0.5	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)