

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: 150P128

Luminaire Tested: **P2GX-132S113I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 150P128
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: P2GX-132S113I
Description: 1 X 4 Recessed Convertible Body Luminaire with a 2"
deep 13 cell semi-specular low iridescent parabolic louver.
Light Source: One - FO32/735 - 2800 Lumens - 32 Watts
Ballast/Driver: Motorola M1-RN-T8-1LL-120 Electronic L.O.B.F. = 90.5%

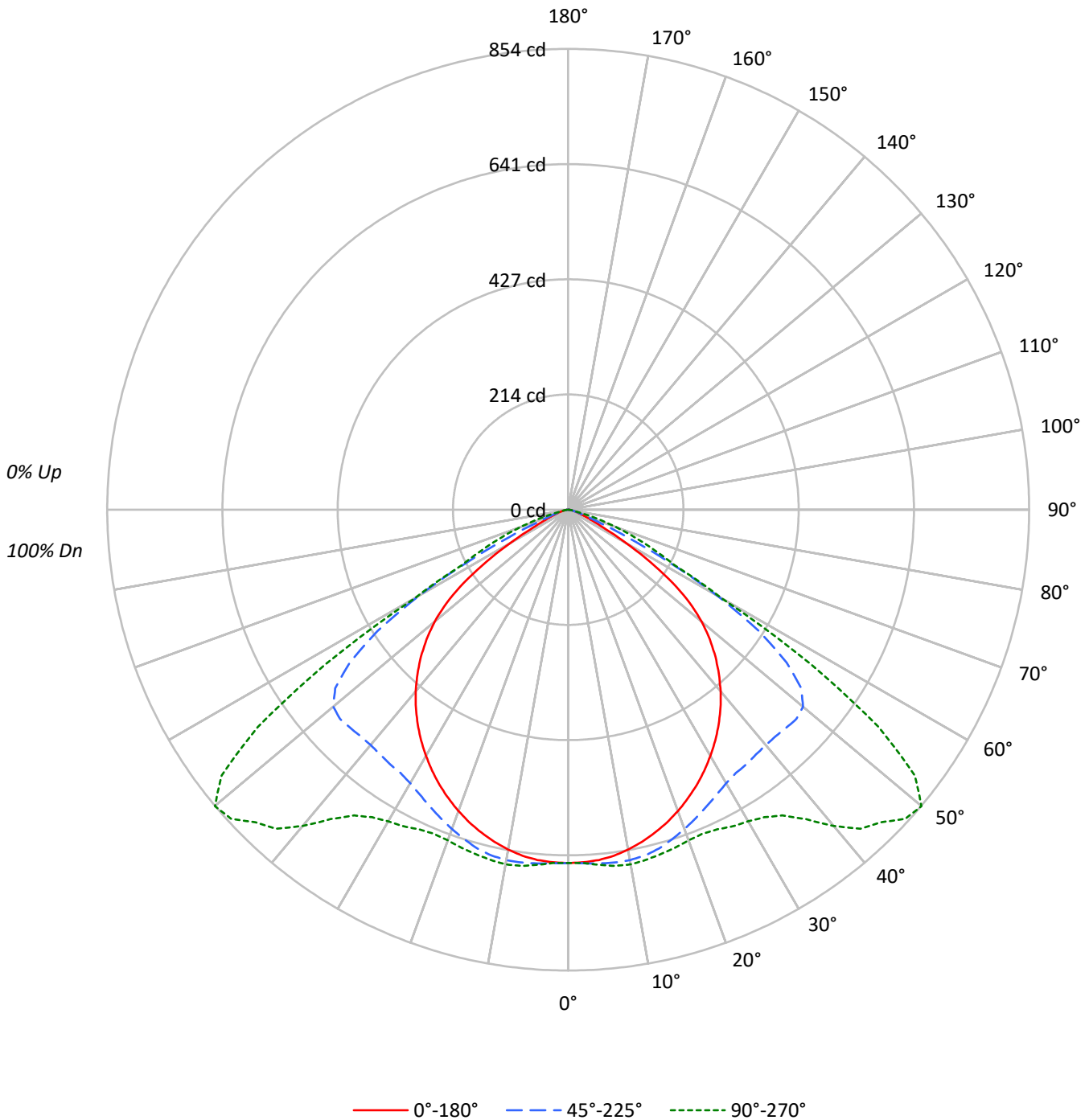
Summary

Lumens per Lamp: 2800 (1 lamp)
Luminaire Lumens: 1913.6 lumens
Efficiency: 68.3%
Efficacy: 58.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.79 / 1.64
Luminous Opening: Rectangular (W 0.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 32.5
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	81	81	81	81	79	79	79	79	76	76	76		73	73	73		70	70	70	68
1	76	73	70	68	74	71	69	67	68	67	65		66	64	63		63	62	61	60
2	69	64	60	57	68	63	59	56	61	58	55		59	56	54		57	54	53	51
3	64	57	52	48	62	56	51	47	54	50	47		52	49	46		50	48	45	44
4	58	51	45	41	57	50	44	40	48	43	40		46	43	39		45	42	39	37
5	54	45	39	35	52	44	39	35	43	38	34		42	37	34		40	37	34	32
6	49	41	35	30	48	40	34	30	39	34	30		38	33	30		36	33	29	28
7	46	37	31	27	44	36	31	27	35	30	26		34	30	26		33	29	26	25
8	42	33	28	24	41	33	27	24	32	27	23		31	27	23		30	26	23	22
9	39	30	25	21	38	30	25	21	29	24	21		28	24	21		28	24	21	19
10	37	28	23	19	36	28	22	19	27	22	19		26	22	19		26	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2534	2534	2534
5°	2532	2556	2566
10°	2514	2591	2623
15°	2483	2604	2648
20°	2447	2594	2686
25°	2405	2590	2791
30°	2354	2616	2979
35°	2295	2719	3267
40°	2219	2876	3864
45°	2112	3127	4483
50°	1944	3419	5144
55°	1597	3333	4740
60°	961	2479	2552
65°	470	1104	1592
70°	300	425	1064
75°	214	229	440
80°	156	152	181
85°	111	107	124



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	62.7	3.3	2.2	0°	655	655	655	655	655	
10°-20°	182.3	9.5	6.5	5°	652	653	658	662	661	62
20°-30°	281.9	14.7	10.1	15°	620	632	650	660	661	175
30°-40°	367.5	19.2	13.1	25°	563	584	606	637	654	259
40°-50°	453.3	23.7	16.2	35°	486	516	576	650	692	303
50°-60°	409.3	21.4	14.6	45°	386	443	571	739	819	296
60°-70°	129.9	6.8	4.6	55°	237	335	494	624	702	205
70°-80°	23.6	1.2	0.8	65°	51	76	121	148	174	60
80°-90°	3.2	0.2	0.1	75°	14	16	15	21	29	16
90°-100°	0.0	0.0	0.0	85°	2	2	2	2	3	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°	526.9	27.5	18.8	165°	0	0	0	0	0	0
0°-40°	894.3	46.7	31.9	175°	0	0	0	0	0	0
0°-60°	1756.9	91.8	62.7	180°	0	0	0	0	0	0
0°-90°	1913.6	100.0	68.3							
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°	1913.6	100.0	68.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	654.7	654.7	654.7	654.7	654.7
2.5°	653.9	654.2	656.0	657.4	655.3
5°	651.7	653.4	658.0	661.5	660.6
7.5°	646.9	651.0	659.5	665.6	665.8
10°	639.7	646.9	659.3	667.4	667.4
12.5°	630.3	640.5	656.4	665.0	664.7
15°	619.7	632.4	650.0	659.9	661.0
17.5°	607.8	622.8	640.3	654.2	656.9
20°	594.2	611.5	629.8	647.3	652.2
22.5°	579.2	598.7	618.4	640.8	650.0
25°	563.1	584.3	606.5	637.3	653.5
27.5°	545.5	568.4	595.2	639.5	661.4
30°	526.8	551.4	585.4	642.4	666.6
32.5°	507.1	534.0	578.5	644.4	675.8
35°	485.8	516.2	575.5	650.5	691.5
37.5°	463.4	498.1	571.8	663.0	722.5
40°	439.2	479.6	569.2	687.9	764.8
42.5°	413.2	461.2	569.3	717.8	801.7
45°	385.8	442.7	571.3	739.1	819.0
47.5°	355.8	423.5	573.6	740.0	847.4
50°	322.9	402.4	567.9	737.4	854.3
52.5°	284.2	375.2	544.0	705.0	809.3
55°	236.7	334.9	494.0	623.7	702.5
57.5°	179.4	275.8	419.1	502.7	533.5
60°	124.2	199.9	320.2	352.0	329.7
62.5°	79.3	128.4	210.3	216.5	221.9
65°	51.3	75.9	120.6	148.3	173.8
67.5°	36.3	47.6	65.5	105.3	132.9
70°	26.5	32.5	37.6	70.1	94.0
72.5°	19.5	22.8	23.2	41.4	59.4
75°	14.3	16.0	15.3	21.0	29.4
77.5°	10.3	11.1	10.2	11.0	13.4
80°	7.0	7.5	6.8	7.0	8.1
82.5°	4.4	4.7	4.3	4.4	5.0
85°	2.5	2.5	2.4	2.5	2.8
87.5°	1.0	1.0	1.0	1.0	1.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	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°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)