

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: 189P103

Luminaire Tested: **PGX-132S29I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 189P103
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: PGX-132S29I-PAF
Description: 1 X 4 Recessed Convertible Body Troffer with a 4" deep 18 cell semi-specular low iridescent parabolic louver.
Light Source: One FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad B232I120RH Electronic - L.O.B.F. = 101.26

Summary

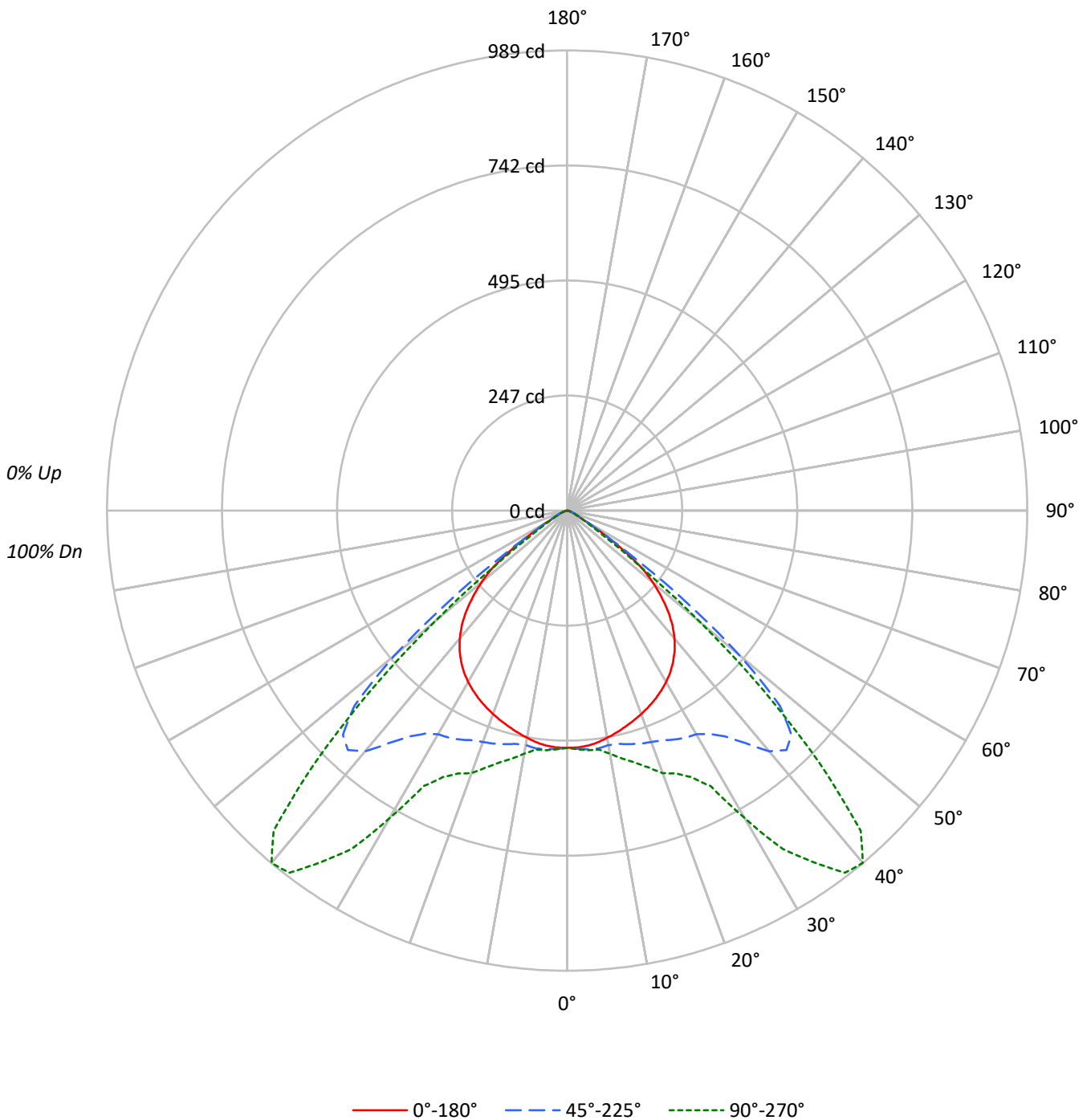
Lumens per Lamp: 2850 (1 lamp)
Luminaire Lumens: 1488.7 lumens
Efficiency: 52.2%
Efficacy: 42.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 2.03 / 1.68
Luminous Opening: Rectangular (W 0.73' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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	62	62	62	62	61	61	61	61	58	58	58	56	56	56	53	53	53	52
1	58	56	55	53	57	55	54	52	53	52	51	51	50	49	49	48	48	47
2	54	51	48	45	53	50	47	45	48	46	44	46	45	43	45	43	42	41
3	50	45	42	39	49	45	41	39	43	40	38	42	39	37	41	39	37	36
4	46	41	37	34	45	40	36	34	39	36	33	38	35	33	37	34	32	31
5	43	37	33	30	42	36	32	29	35	32	29	34	31	29	33	31	29	28
6	39	33	29	26	39	33	29	26	32	28	26	31	28	25	30	27	25	24
7	37	30	26	23	36	30	26	23	29	25	23	28	25	23	28	25	22	21
8	34	27	23	20	33	27	23	20	26	23	20	26	23	20	25	22	20	19
9	32	25	21	18	31	25	21	18	24	21	18	24	20	18	23	20	18	17
10	30	23	19	16	29	23	19	16	22	19	16	22	19	16	21	18	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1991	1991	1991
5°	1987	2017	2026
10°	1966	2028	2102
15°	1945	2100	2264
20°	1933	2199	2494
25°	1927	2339	2723
30°	1917	2502	3441
35°	1891	2824	4393
40°	1829	3442	5038
45°	1697	3762	4236
50°	1466	2942	2260
55°	1000	1148	697
60°	358	397	308
65°	175	227	189
70°	108	152	129
75°	74	110	92
80°	52	79	65
85°	31	40	36



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	49.0	3.3	1.7	0°	510	510	510	510	510	
10°-20°	148.0	9.9	5.2	5°	507	510	515	517	517	48
20°-30°	252.0	16.9	8.8	15°	481	494	520	551	560	136
30°-40°	395.7	26.6	13.9	25°	447	475	543	602	632	206
40°-50°	443.7	29.8	15.6	35°	397	455	593	822	922	247
50°-60°	166.6	11.2	5.8	45°	307	434	682	757	767	235
60°-70°	25.3	1.7	0.9	55°	147	238	169	131	102	128
70°-80°	7.3	0.5	0.3	65°	19	23	25	23	20	22
80°-90°	1.2	0.1	0.0	75°	5	6	7	7	6	6
90°-100°	0.0	0.0	0.0	85°	1	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°	449.0	30.2	15.8	165°	0	0	0	0	0	0
0°-40°	844.7	56.7	29.6	175°	0	0	0	0	0	0
0°-60°	1455.0	97.7	51.1	180°	0	0	0	0	0	0
0°-90°	1488.7	100.0	52.2							
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°	1488.7	100.0	52.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	510.0	510.0	510.0	510.0	510.0
2.5°	509.5	510.4	512.6	514.3	513.5
5°	507.2	510.5	514.8	517.0	517.0
7.5°	502.5	508.6	515.5	517.7	517.9
10°	495.9	504.0	511.7	524.9	530.4
12.5°	488.9	498.8	513.5	538.5	545.8
15°	481.3	494.1	519.7	550.6	560.2
17.5°	473.4	485.9	525.0	562.4	578.7
20°	465.4	479.9	529.3	580.9	600.3
22.5°	456.8	477.3	534.1	592.7	611.6
25°	447.4	474.7	543.1	601.8	632.1
27.5°	436.9	471.1	550.3	622.0	667.6
30°	425.3	466.3	555.1	663.6	763.4
32.5°	412.4	460.6	568.5	749.2	862.5
35°	396.9	454.8	592.6	822.4	921.9
37.5°	379.4	449.3	630.0	862.1	981.1
40°	359.0	444.9	675.4	887.0	988.6
42.5°	335.2	440.2	697.8	856.1	933.6
45°	307.4	434.4	681.5	756.7	767.4
47.5°	275.1	425.5	620.0	579.3	571.7
50°	241.4	399.1	484.4	409.0	372.2
52.5°	201.6	335.7	318.3	248.8	195.2
55°	146.9	237.8	168.7	130.8	102.4
57.5°	85.8	134.7	83.8	71.1	58.4
60°	45.9	64.8	50.8	44.9	39.4
62.5°	28.0	35.5	34.5	31.2	28.0
65°	19.0	23.4	24.6	22.6	20.5
67.5°	13.4	16.5	18.0	16.8	15.2
70°	9.5	11.9	13.3	12.6	11.3
72.5°	6.9	8.7	9.9	9.4	8.5
75°	4.9	6.3	7.3	6.9	6.1
77.5°	3.5	4.5	5.1	5.0	4.4
80°	2.3	3.1	3.5	3.3	2.9
82.5°	1.4	1.8	2.0	2.0	1.7
85°	0.7	0.9	0.9	0.8	0.8
87.5°	0.3	0.2	0.1	0.1	0.1
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)