

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: 115P132

Luminaire Tested: **P2GX-132S113I-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 115P132
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: P2GX-132S113I-PAF
Description: 1 X 4 Recessed Convertible Body Troffer with a
2" deep 13 cell semi-specular low iridescent
parabolic louver.
Light Source: FO32T8/35K - 2900 Lumens - 32 Watts
Ballast/Driver: Triad-Utrad B232I120 Electronic

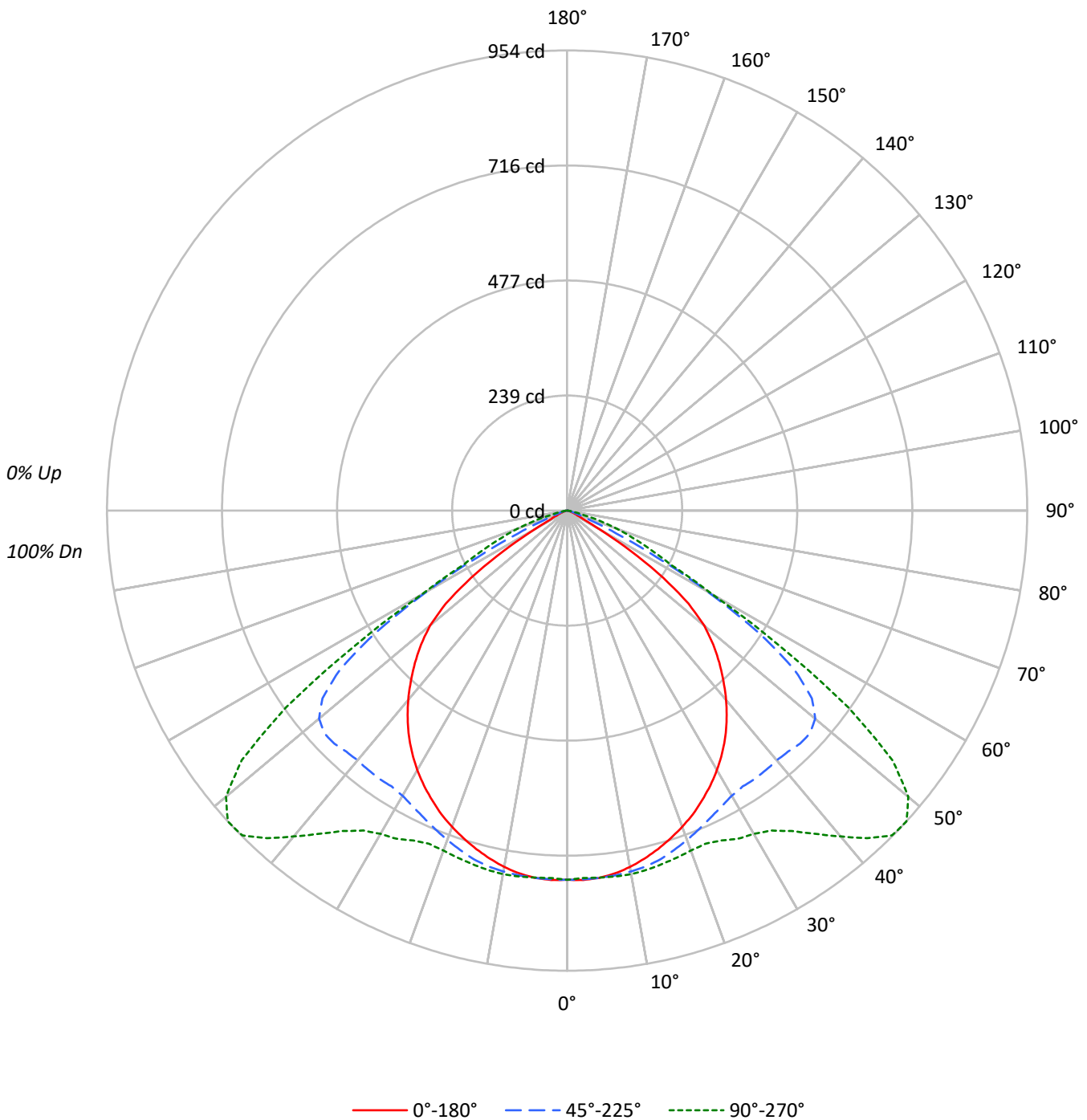
Summary

Lumens per Lamp: 2900 (1 lamp)
Luminaire Lumens: 2163.0 lumens
Efficiency: 74.6%
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.76 / 1.65
Luminous Opening: Rectangular (W 0.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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	89	89	89	89	87	87	87	87	83	83	83		79	79	79		76	76	76	75
1	83	80	77	75	81	78	76	74	75	73	71		72	71	69		69	68	67	66
2	76	71	66	63	74	69	65	62	67	63	60		64	62	59		62	60	58	56
3	70	63	57	53	68	62	56	52	59	55	52		57	54	51		56	52	50	48
4	64	56	50	45	62	55	49	45	53	48	44		51	47	44		50	46	43	42
5	59	50	44	39	57	49	43	39	47	42	38		46	41	38		45	41	37	36
6	54	45	38	34	53	44	38	34	43	37	33		42	37	33		40	36	33	31
7	50	40	34	30	49	40	34	30	39	33	29		38	33	29		37	32	29	28
8	47	37	31	26	45	36	30	26	35	30	26		34	30	26		34	29	26	24
9	43	34	28	24	42	33	27	24	32	27	23		32	27	23		31	26	23	22
10	41	31	25	21	40	31	25	21	30	25	21		29	24	21		28	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2962	2962	2962
5°	2970	2970	2967
10°	2949	2987	3009
15°	2911	2998	3041
20°	2873	2993	3089
25°	2829	3001	3222
30°	2776	3051	3459
35°	2701	3208	3831
40°	2591	3415	4456
45°	2442	3738	5213
50°	2232	4043	5559
55°	1644	3883	4801
60°	588	2612	2691
65°	214	1036	1739
70°	134	304	1223
75°	88	181	540
80°	58	123	205
85°	27	67	142



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	72.8	3.4	2.5	0°	765	765	765	765	765	
10°-20°	210.6	9.7	7.3	5°	764	764	765	766	764	73
20°-30°	327.3	15.1	11.3	15°	727	733	748	758	759	205
30°-40°	430.9	19.9	14.9	25°	662	680	703	736	755	305
40°-50°	528.7	24.4	18.2	35°	572	603	679	763	811	357
50°-60°	446.9	20.7	15.4	45°	446	518	683	858	952	343
60°-70°	122.4	5.7	4.2	55°	244	392	575	666	712	208
70°-80°	21.2	1.0	0.7	65°	23	37	113	166	190	29
80°-90°	2.2	0.1	0.1	75°	6	8	12	23	36	7
90°-100°	0.0	0.0	0.0	85°	1	1	2	2	3	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°	610.7	28.2	21.1	165°	0	0	0	0	0	0
0°-40°	1041.5	48.2	35.9	175°	0	0	0	0	0	0
0°-60°	2017.1	93.3	69.6	180°	0	0	0	0	0	0
0°-90°	2163.0	100.0	74.6							
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°	2163.0	100.0	74.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	765.4	765.4	765.4	765.4	765.4
2.5°	766.5	765.4	765.2	765.4	762.3
5°	764.4	763.5	764.6	766.1	763.8
7.5°	758.8	759.0	763.0	766.6	765.2
10°	750.3	752.5	760.0	766.6	765.6
12.5°	739.2	743.5	755.4	763.7	762.9
15°	726.6	732.6	748.3	758.5	758.9
17.5°	712.8	721.2	737.7	752.5	754.7
20°	697.6	708.7	726.7	745.5	750.0
22.5°	681.4	695.3	714.8	738.9	747.6
25°	662.4	679.5	702.7	735.7	754.6
27.5°	642.8	661.9	691.9	742.3	767.0
30°	621.1	642.9	682.6	749.0	773.9
32.5°	597.6	623.3	677.8	752.2	786.2
35°	571.7	602.9	678.9	762.9	810.8
37.5°	543.3	581.6	677.6	783.3	844.4
40°	512.9	560.3	675.9	810.5	882.0
42.5°	479.7	538.9	678.0	836.9	920.9
45°	446.1	518.4	683.0	858.2	952.5
47.5°	410.7	498.1	683.1	863.7	954.3
50°	370.7	477.1	671.4	834.9	923.3
52.5°	317.1	448.3	639.6	769.8	850.0
55°	243.6	391.9	575.4	665.8	711.5
57.5°	157.1	296.5	469.2	518.1	523.3
60°	75.9	171.4	337.4	358.8	347.6
62.5°	36.0	72.3	210.6	236.1	240.7
65°	23.4	37.0	113.1	166.1	189.9
67.5°	16.6	25.0	51.7	122.5	146.9
70°	11.8	17.6	26.9	84.2	108.1
72.5°	8.4	12.3	17.6	49.0	71.2
75°	5.9	8.4	12.1	22.8	36.1
77.5°	4.1	5.6	8.3	11.4	15.8
80°	2.6	3.5	5.5	7.3	9.2
82.5°	1.5	1.9	3.2	4.6	5.7
85°	0.6	0.9	1.5	2.4	3.2
87.5°	0.1	0.1	0.2	0.6	1.0
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)