

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: 109P139

Luminaire Tested: **2P2GX-217S55I-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 109P139
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-217S55I-PAF
Description: 2 X 2 Recessed Convertible Body Troffer with
a 2" deep 25 Cell semi-specular low iridescent
parabolic louver.
Light Source: Two-F17T8/735 - 1325 Lumens ea. - 17 Watts ea.
Ballast/Driver: Triad-Utrad B2321120RH

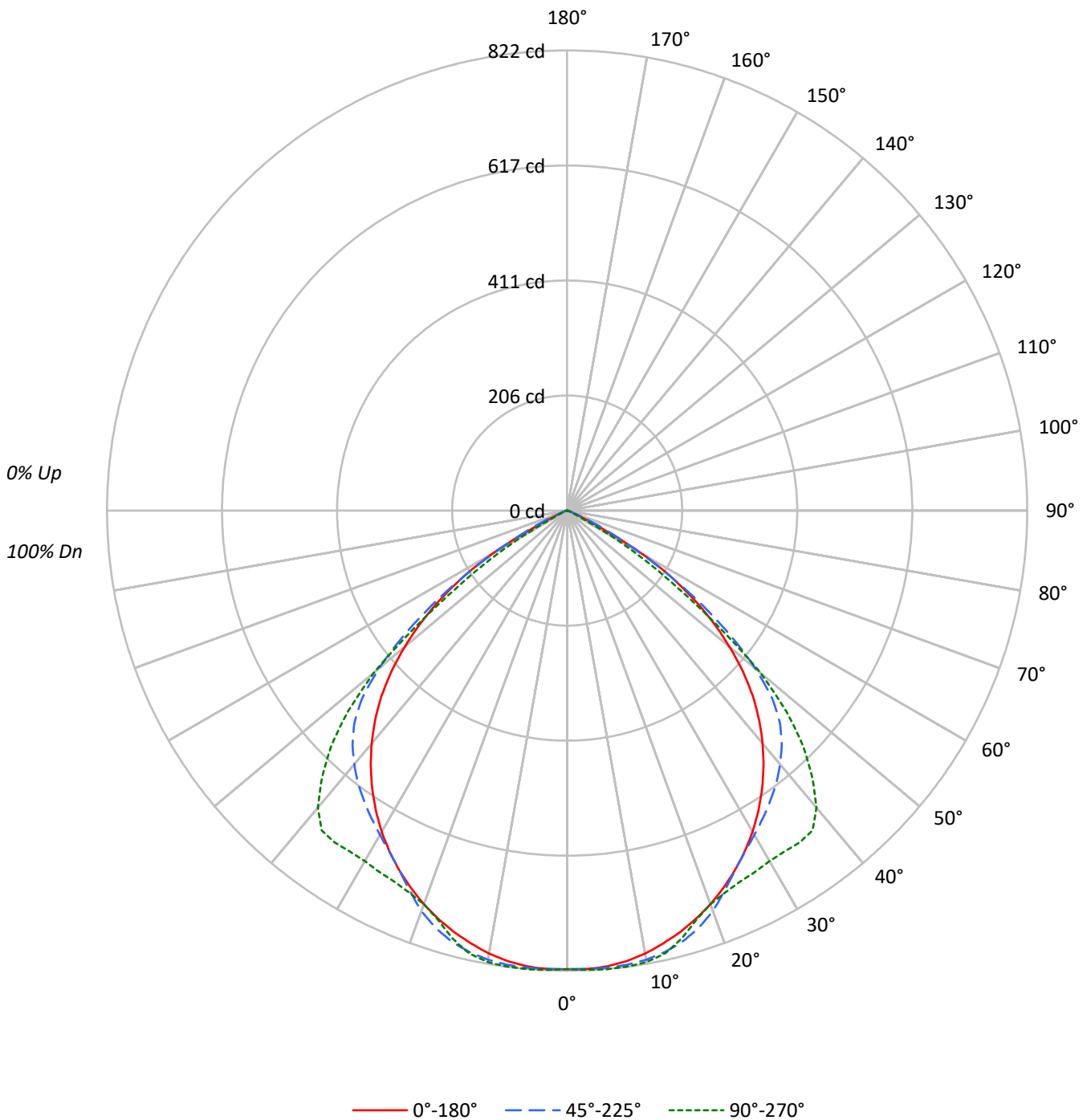
Summary

Lumens per Lamp: 1325 (2 lamps)
Luminaire Lumens: 1741.2 lumens
Efficiency: 65.7%
Efficacy: 48.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.36 / 1.37
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')
CIE Type: Direct

Input Watts (W): 35.8
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										
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	50	30	10	50	30	10	0														
RCR																																						
0	78	78	78	78	76	76	76	76	73	73	73	70	70	70	67	67	67	66						66														
1	73	71	69	67	72	70	68	66	67	65	64	64	63	62	62	61	60	59						59														
2	68	64	60	57	67	63	60	57	61	58	56	58	56	54	57	55	53	52						52														
3	63	57	53	50	62	57	52	49	55	51	48	53	50	48	51	49	47	46						46														
4	58	52	47	43	57	51	46	43	49	46	42	48	45	42	47	44	41	40						40														
5	54	47	42	38	53	46	41	38	45	41	37	44	40	37	43	39	37	35						35														
6	50	43	37	34	49	42	37	34	41	37	33	40	36	33	39	35	33	32						32														
7	47	39	34	30	46	38	33	30	37	33	30	36	33	30	36	32	29	28						28														
8	44	36	31	27	43	35	30	27	34	30	27	34	30	27	33	29	27	25						25														
9	41	33	28	24	40	32	28	24	32	27	24	31	27	24	30	27	24	23						23														
10	38	30	25	22	38	30	25	22	29	25	22	29	25	22	28	25	22	21						21														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2879	2879	2879
5°	2884	2892	2901
10°	2867	2908	2922
15°	2836	2900	2879
20°	2799	2847	2799
25°	2750	2750	2836
30°	2689	2715	2934
35°	2605	2715	3106
40°	2492	2714	3179
45°	2333	2673	2967
50°	2070	2401	2461
55°	1694	1810	1484
60°	1088	1038	635
65°	240	423	95
70°	96	105	61
75°	65	67	41
80°	45	49	24
85°	24	24	4



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	78.0	4.5	2.9	0°	819	819	819	819	819	
10°-20°	222.6	12.8	8.4	5°	817	818	820	821	822	78
20°-30°	331.8	19.1	12.5	15°	780	787	797	797	791	220
30°-40°	407.1	23.4	15.4	25°	709	722	709	722	731	326
40°-50°	403.6	23.2	15.2	35°	607	616	633	691	724	379
50°-60°	245.0	14.1	9.2	45°	469	475	538	572	597	359
60°-70°	47.0	2.7	1.8	55°	276	280	295	261	242	243
70°-80°	5.3	0.3	0.2	65°	29	40	51	17	11	49
80°-90°	0.7	0.0	0.0	75°	5	6	5	4	3	5
90°-100°	0.0	0.0	0.0	85°	1	1	1	0	0	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°	632.4	36.3	23.9	165°	0	0	0	0	0	0
0°-40°	1039.5	59.7	39.2	175°	0	0	0	0	0	0
0°-60°	1688.1	97.0	63.7	180°	0	0	0	0	0	0
0°-90°	1741.2	100.0	65.7							
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°	1741.2	100.0	65.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	819.1	819.1	819.1	819.1	819.1
2.5°	819.7	818.8	819.3	819.6	821.3
5°	817.3	817.5	819.6	821.0	822.2
7.5°	812.0	814.1	818.4	820.7	821.7
10°	803.4	807.0	814.7	817.9	818.8
12.5°	792.0	797.7	807.6	811.0	809.9
15°	779.5	786.6	796.9	797.1	791.3
17.5°	764.7	773.6	781.7	773.0	766.4
20°	748.3	758.6	761.2	749.7	748.3
22.5°	729.4	741.5	734.6	733.2	738.1
25°	709.1	721.9	709.0	722.2	731.2
27.5°	686.8	699.6	687.3	712.5	727.4
30°	662.5	674.9	668.9	705.5	723.0
32.5°	635.7	647.6	651.0	696.4	722.1
35°	607.0	616.5	632.8	691.0	723.8
37.5°	576.2	582.9	613.9	684.3	720.0
40°	543.2	548.4	591.6	667.1	692.8
42.5°	507.7	512.6	567.6	626.0	648.3
45°	469.3	475.4	537.7	571.5	596.9
47.5°	426.2	435.0	497.2	512.7	531.2
50°	378.6	387.3	439.1	441.5	450.0
52.5°	329.4	335.8	370.2	358.3	341.5
55°	276.5	279.7	295.4	260.8	242.1
57.5°	219.1	217.5	217.9	180.4	165.5
60°	154.8	153.3	147.6	115.2	90.3
62.5°	77.2	92.9	91.7	54.5	28.3
65°	28.8	39.9	50.9	17.0	11.4
67.5°	14.3	17.7	23.1	10.5	8.2
70°	9.3	11.2	10.2	7.7	5.9
72.5°	6.6	7.9	6.8	5.7	4.3
75°	4.8	5.7	4.9	4.1	3.0
77.5°	3.4	4.0	3.6	2.8	2.0
80°	2.2	2.7	2.4	1.8	1.2
82.5°	1.4	1.6	1.3	0.9	0.5
85°	0.6	0.7	0.6	0.3	0.1
87.5°	0.0	0.0	0.0	0.0	0.0
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)