

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: 109P140

Luminaire Tested: **2P2GX-217S55M/I-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 109P140
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-217S55M/I-PAF
Description: 2 X 2 Recessed Convertible Body Troffer with
a 2" deep 25 Cell specular low iridescent
parabolic louver.
Light Source: Two-F17T8/735 - 1325 Lumens ea. - 17 Watts ea.
Ballast/Driver: Triad-Utrad B2321120RH

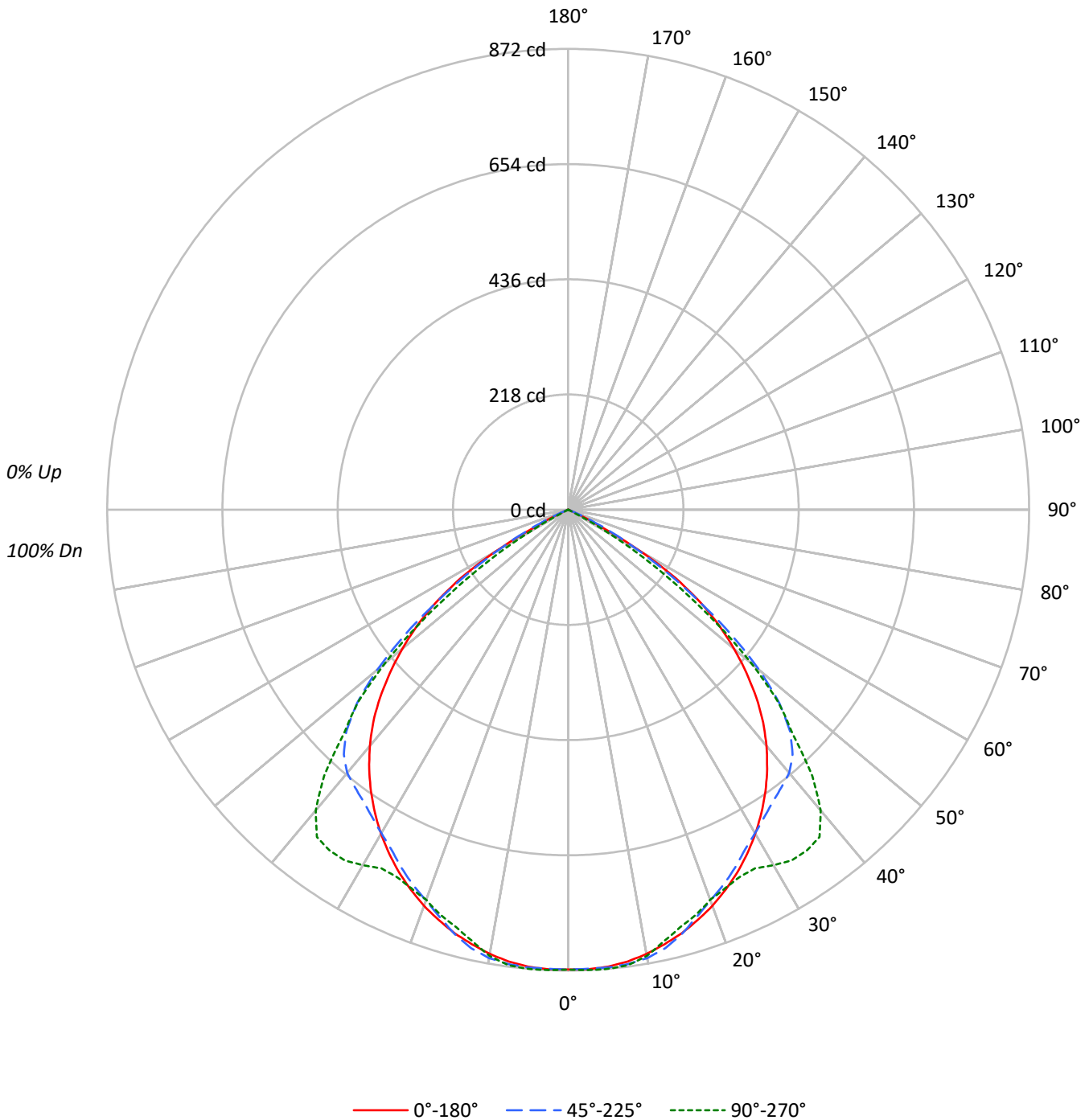
Summary

Lumens per Lamp: 1325 (2 lamps)
Luminaire Lumens: 1832.5 lumens
Efficiency: 69.2%
Efficacy: 51.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.39 / 1.39
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

TEST NUMBER: 109P140
CATALOG NUMBER: 2P2GX-217S55M/I-PAF

Luminous Intensity Polar Plot





TEST NUMBER: 109P140

CATALOG NUMBER: 2P2GX-217S55M/I-PAF

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	50	30	10	0	
RCR																						
0	82	82	82	82	80	80	80	80	77	77	77	74	74	74	71	71	71	69				
1	77	75	73	71	76	73	71	70	70	69	67	68	67	65	65	64	63	62				
2	72	67	64	61	70	66	63	60	64	61	59	62	59	57	60	58	56	55				
3	67	61	56	53	65	60	55	52	58	54	51	56	53	50	54	52	50	48				
4	62	55	50	46	60	54	49	46	52	48	45	51	47	44	49	46	44	43				
5	57	50	44	40	56	49	44	40	47	43	40	46	42	39	45	42	39	38				
6	53	45	40	36	52	44	39	36	43	39	35	42	38	35	41	37	35	33				
7	49	41	36	32	48	41	35	32	40	35	32	39	34	31	38	34	31	30				
8	46	38	32	29	45	37	32	29	36	32	28	35	31	28	35	31	28	27				
9	43	35	29	26	42	34	29	26	33	29	26	33	29	26	32	28	25	24				
10	40	32	27	24	40	32	27	24	31	27	23	30	26	23	30	26	23	22				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3058	3058	3058
5°	3063	3068	3077
10°	3046	3075	3060
15°	3019	3025	2977
20°	2983	2943	2938
25°	2936	2897	2974
30°	2873	2869	3152
35°	2791	2895	3377
40°	2677	2985	3409
45°	2504	2952	2985
50°	2240	2578	2477
55°	1867	1848	1574
60°	1124	1059	616
65°	170	330	17
70°	25	18	11
75°	16	10	7
80°	8	6	2
85°	0	0	0



TEST NUMBER: 109P140

CATALOG NUMBER: 2P2GX-217S55M/I-PAF

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	82.7	4.5	3.1	0°	870	870	870	870	870	
10°-20°	233.5	12.7	8.8	5°	868	868	869	871	872	82
20°-30°	349.6	19.1	13.2	15°	830	835	831	820	818	234
30°-40°	436.5	23.8	16.5	25°	757	758	747	760	767	348
40°-50°	431.1	23.5	16.3	35°	650	646	675	756	787	406
50°-60°	258.3	14.1	9.7	45°	504	510	594	605	600	386
60°-70°	39.9	2.2	1.5	55°	305	307	302	277	257	265
70°-80°	0.9	0.0	0.0	65°	20	35	40	4	2	44
80°-90°	0.1	0.0	0.0	75°	1	1	1	1	0	1
90°-100°	0.0	0.0	0.0	85°	0	0	0	0	0	0
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°	665.7	36.3	25.1	165°	0	0	0	0	0	0
0°-40°	1102.2	60.1	41.6	175°	0	0	0	0	0	0
0°-60°	1791.7	97.8	67.6	180°	0	0	0	0	0	0
0°-90°	1832.5	100.0	69.2							
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°	1832.5	100.0	69.2							



TEST NUMBER: 109P140

CATALOG NUMBER: 2P2GX-217S55M/I-PAF

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	870.0	870.0	870.0	870.0	870.0
2.5°	870.4	869.5	869.5	870.1	871.9
5°	868.1	867.8	869.4	870.6	872.1
7.5°	862.3	863.7	867.2	868.6	869.0
10°	853.5	856.4	861.5	859.2	857.3
12.5°	842.1	846.8	849.6	842.2	836.5
15°	829.7	835.1	831.2	820.3	818.1
17.5°	814.3	820.8	807.9	804.9	803.6
20°	797.5	803.5	786.8	788.0	785.6
22.5°	778.3	782.9	767.9	769.7	775.4
25°	757.0	758.5	747.1	759.7	766.9
27.5°	733.7	732.1	724.5	749.9	765.2
30°	707.9	703.8	706.8	748.8	776.7
32.5°	680.4	675.0	690.1	755.9	786.6
35°	650.4	645.5	674.6	756.4	787.1
37.5°	618.3	614.7	662.3	749.6	780.7
40°	583.4	581.8	650.5	727.5	742.9
42.5°	546.0	546.9	628.2	676.6	683.5
45°	503.7	509.8	593.9	605.0	600.5
47.5°	457.2	466.4	541.8	522.8	539.5
50°	409.7	419.6	471.5	450.2	452.9
52.5°	359.9	369.8	390.2	367.0	355.7
55°	304.6	306.8	301.6	277.1	256.8
57.5°	240.4	233.5	222.4	184.4	169.0
60°	159.9	158.7	150.7	111.1	87.6
62.5°	72.7	90.7	92.5	42.9	15.5
65°	20.5	34.8	39.7	3.7	2.1
67.5°	4.8	5.5	11.9	1.5	1.5
70°	2.4	2.1	1.8	1.1	1.1
72.5°	1.8	1.4	0.9	0.7	0.8
75°	1.2	1.0	0.7	0.6	0.5
77.5°	0.8	0.6	0.5	0.3	0.3
80°	0.4	0.3	0.3	0.1	0.1
82.5°	0.2	0.1	0.1	0.0	0.1
85°	0.0	0.0	0.0	0.0	0.0
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



TEST NUMBER: 109P140

CATALOG NUMBER: 2P2GX-217S55M/I-PAF

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)