

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: 109P142

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

Issue Date: 3/3/2020



**Test Information**

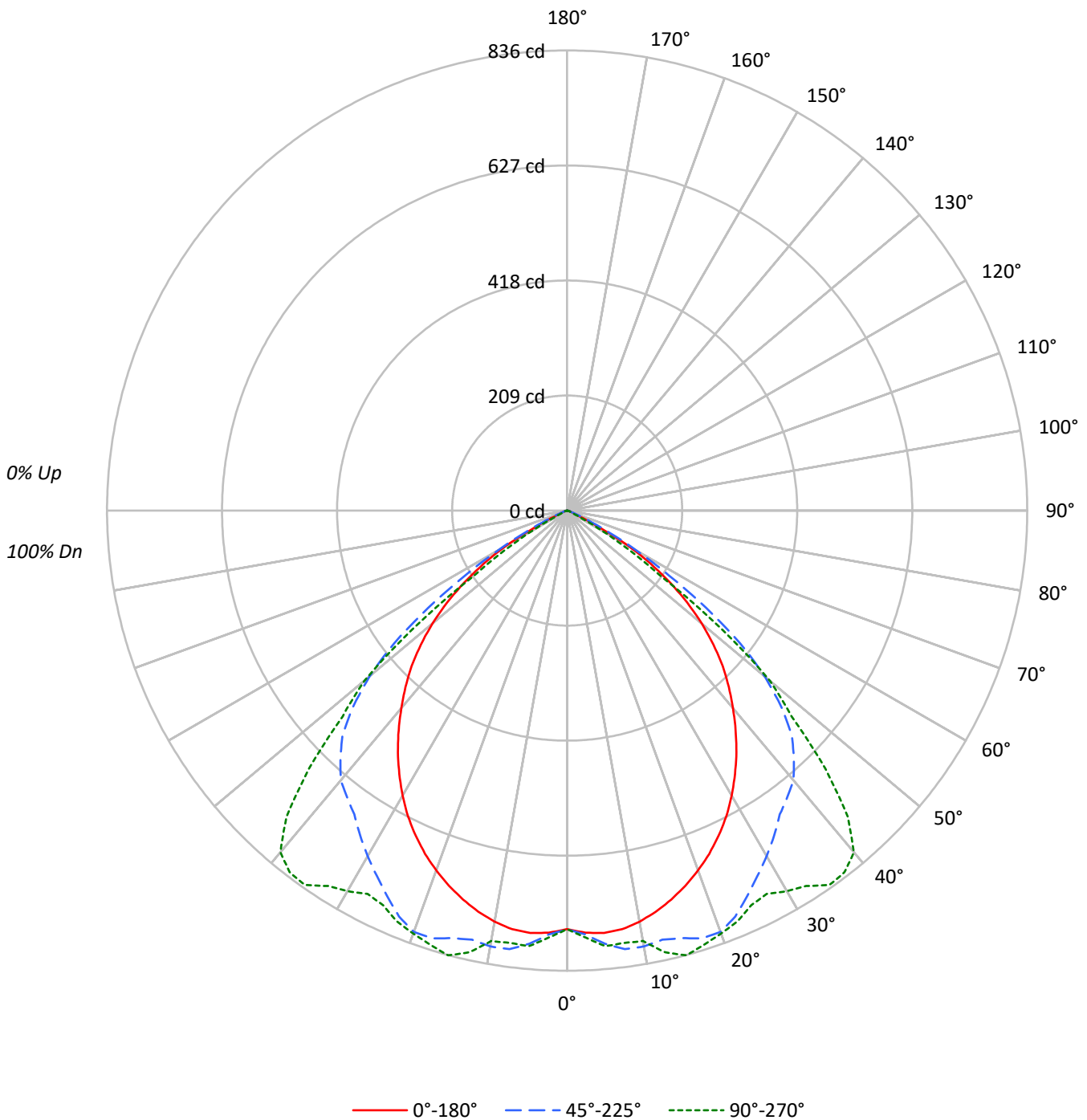
Test Method: LM-41-14  
Report Number: 109P142  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2P2GX-SS-217S55I  
Description: 2 X 2 Recessed Silver Steel Convertible Body  
Troffer with a 2" deep 25 Cell semi-specular  
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: 1791.0 lumens  
Efficiency: 67.6%  
Efficacy: 50.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.63 / 1.46  
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 35.6  
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: 109P142  
CATALOG NUMBER: 2P2GX-SS-217S55I

### Luminous Intensity Polar Plot





TEST NUMBER: 109P142

CATALOG NUMBER: 2P2GX-SS-217S55I

**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	80	80	80	80	79	79	79	79	75	75	75	72	72	72	69	69	69	68																				
1	75	73	71	69	74	72	70	68	69	67	66	66	65	64	64	63	62	61																				
2	70	66	62	59	69	65	61	59	62	60	57	60	58	56	58	56	55	53																				
3	65	59	55	51	63	58	54	51	56	53	50	55	52	49	53	50	48	47																				
4	60	53	48	45	59	53	48	44	51	47	44	50	46	43	48	45	43	41																				
5	56	48	43	39	55	48	43	39	46	42	39	45	41	38	44	41	38	37																				
6	52	44	39	35	51	43	38	35	42	38	34	41	37	34	40	37	34	33																				
7	48	40	35	31	47	40	35	31	39	34	31	38	34	31	37	33	30	29																				
8	45	37	31	28	44	36	31	28	35	31	28	35	30	28	34	30	27	26																				
9	42	34	29	25	41	33	28	25	33	28	25	32	28	25	31	28	25	24																				
10	39	31	26	23	39	31	26	23	30	26	23	30	26	23	29	25	23	22																				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2673	2673	2673
5°	2717	2787	2803
10°	2706	2870	2834
15°	2661	2926	3044
20°	2602	3046	3059
25°	2526	2999	3068
30°	2427	2943	3240
35°	2301	2891	3563
40°	2150	2935	3718
45°	1985	2868	3299
50°	1747	2563	2632
55°	1398	1890	1273
60°	896	1041	509
65°	207	352	84
70°	87	95	55
75°	61	64	38
80°	47	49	26
85°	28	24	12



TEST NUMBER: 109P142

CATALOG NUMBER: 2P2GX-SS-217S55I

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	75.1	4.2	2.8	0°	760	760	760	760	760	
10°-20°	225.8	12.6	8.5	5°	770	779	790	794	794	73
20°-30°	347.7	19.4	13.1	15°	731	775	804	846	836	206
30°-40°	433.1	24.2	16.3	25°	651	708	773	808	791	299
40°-50°	423.5	23.6	16.0	35°	536	618	674	797	830	334
50°-60°	238.1	13.3	9.0	45°	399	464	577	663	664	306
60°-70°	42.0	2.3	1.6	55°	228	263	308	262	208	202
70°-80°	5.0	0.3	0.2	65°	25	38	42	14	10	42
80°-90°	0.8	0.0	0.0	75°	4	5	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°	648.6	36.2	24.5	165°	0	0	0	0	0	0
0°-40°	1081.7	60.4	40.8	175°	0	0	0	0	0	0
0°-60°	1743.3	97.3	65.8	180°	0	0	0	0	0	0
0°-90°	1791.0	100.0	67.6							
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°	1791.0	100.0	67.6							



TEST NUMBER: 109P142

CATALOG NUMBER: 2P2GX-SS-217S55I

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	760.4	760.4	760.4	760.4	760.4
2.5°	767.6	767.5	771.0	774.1	776.5
5°	770.2	779.2	790.0	793.7	794.4
7.5°	767.1	786.2	803.6	799.2	792.2
10°	758.3	786.7	804.1	799.6	794.1
12.5°	746.1	781.8	798.5	824.1	822.0
15°	731.4	775.2	804.0	845.9	836.4
17.5°	714.5	760.8	815.0	845.7	826.9
20°	695.6	742.5	814.4	833.4	817.7
22.5°	674.8	724.2	798.1	821.0	807.9
25°	651.4	708.2	773.2	807.8	791.0
27.5°	626.2	694.5	748.5	789.2	785.1
30°	597.9	677.3	725.0	787.8	798.3
32.5°	567.5	652.7	700.0	794.4	808.5
35°	536.2	618.5	673.8	797.0	830.4
37.5°	502.9	579.1	656.9	801.4	828.1
40°	468.5	540.4	639.7	775.9	810.3
42.5°	434.7	500.4	609.6	732.9	754.8
45°	399.4	463.6	577.0	662.6	663.6
47.5°	360.4	424.0	527.6	566.9	553.3
50°	319.4	375.2	468.8	462.9	481.3
52.5°	274.8	321.6	396.3	379.3	356.3
55°	228.2	262.8	308.4	262.1	207.8
57.5°	179.4	204.2	219.7	152.2	135.8
60°	127.4	143.7	148.1	94.0	72.4
62.5°	65.8	88.4	83.8	44.1	22.4
65°	24.9	37.7	42.3	14.2	10.1
67.5°	12.8	16.3	19.7	9.5	7.4
70°	8.5	10.5	9.2	7.1	5.4
72.5°	6.1	7.5	6.4	5.3	4.0
75°	4.5	5.4	4.7	3.9	2.8
77.5°	3.3	3.9	3.4	2.8	2.0
80°	2.3	2.7	2.4	1.9	1.3
82.5°	1.5	1.7	1.4	1.0	0.6
85°	0.7	0.8	0.6	0.4	0.3
87.5°	0.1	0.1	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: 109P142

CATALOG NUMBER: 2P2GX-SS-217S55I

**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)