

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: 109P141

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 109P141
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-SS-217S55M/I
Description: 2 X 2 Recessed Silver Steel 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

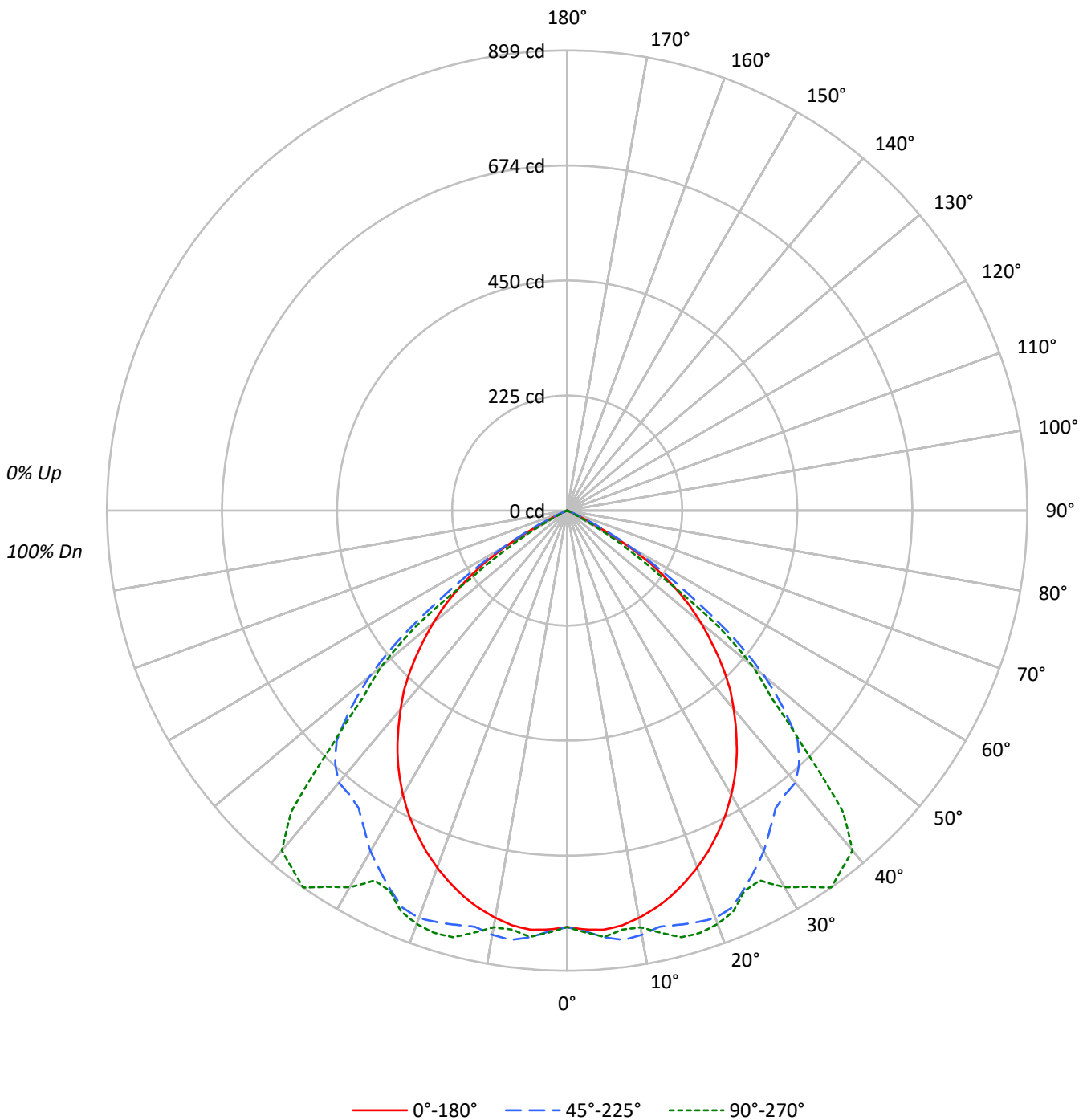
Summary

Lumens per Lamp: 1325 (2 lamps)
Luminaire Lumens: 1877.3 lumens
Efficiency: 70.8%
Efficacy: 52.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.63 / 1.47
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')
CIE Type: Direct

Input Watts (W): 35.7
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: 109P141
CATALOG NUMBER: 2P2GX-SS-217S55M/I

Luminous Intensity Polar Plot





TEST NUMBER: 109P141

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									70									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	84	84	84	84	82	82	82	82	79	79	79	75	75	75	72	72	72	71				71															
1	79	77	74	72	77	75	73	71	72	71	69	70	68	67	67	66	65	64				64															
2	74	69	65	62	72	68	64	62	66	63	60	63	61	59	61	59	58	56				56															
3	68	62	58	54	67	61	57	53	59	56	53	57	54	52	56	53	51	50				50															
4	63	56	51	47	62	55	51	47	54	49	46	52	49	46	51	48	45	44				44															
5	59	51	45	41	57	50	45	41	49	44	41	47	43	40	46	43	40	39				39															
6	54	46	41	37	53	46	40	37	44	40	36	43	39	36	42	39	36	34				34															
7	51	42	37	33	50	42	36	33	41	36	32	40	35	32	39	35	32	31				31															
8	47	39	33	29	46	38	33	29	37	33	29	36	32	29	36	32	29	28				28															
9	44	35	30	27	43	35	30	27	34	30	26	34	29	26	33	29	26	25				25															
10	41	33	28	24	41	32	27	24	32	27	24	31	27	24	31	27	24	23				23															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2860	2860	2860
5°	2900	2952	2949
10°	2883	3003	2950
15°	2840	3049	3140
20°	2777	3168	3214
25°	2698	3169	3179
30°	2604	3120	3448
35°	2480	3046	3857
40°	2324	3184	3979
45°	2127	3166	3233
50°	1865	2755	2590
55°	1515	1867	1377
60°	922	1012	525
65°	150	264	17
70°	25	16	11
75°	16	10	5
80°	10	8	2
85°	0	0	0



TEST NUMBER: 109P141

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

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	79.3	4.2	3.0	0°	814	814	814	814	814	
10°-20°	236.3	12.6	8.9	5°	822	831	837	837	836	78
20°-30°	365.5	19.5	13.8	15°	781	817	838	872	863	220
30°-40°	461.8	24.6	17.4	25°	696	742	817	845	820	320
40°-50°	449.9	24.0	17.0	35°	578	643	710	868	899	360
50°-60°	248.4	13.2	9.4	45°	428	500	637	701	650	328
60°-70°	35.3	1.9	1.3	55°	247	287	305	281	225	217
70°-80°	0.9	0.0	0.0	65°	18	31	32	3	2	37
80°-90°	0.1	0.0	0.0	75°	1	1	1	0	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°	681.1	36.3	25.7	165°	0	0	0	0	0	0
0°-40°	1142.8	60.9	43.1	175°	0	0	0	0	0	0
0°-60°	1841.1	98.1	69.5	180°	0	0	0	0	0	0
0°-90°	1877.3	100.0	70.8							
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°	1877.3	100.0	70.8							



TEST NUMBER: 109P141

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	813.7	813.7	813.7	813.7	813.7
2.5°	819.1	820.8	822.9	823.3	824.8
5°	822.0	831.1	836.6	837.3	835.9
7.5°	817.4	834.2	846.2	835.4	825.5
10°	807.9	830.8	841.3	833.5	826.5
12.5°	795.6	824.8	832.7	854.5	844.6
15°	780.6	816.9	837.8	871.9	862.9
17.5°	762.2	800.7	843.4	885.2	864.9
20°	742.4	780.2	846.9	875.7	859.3
22.5°	720.2	759.3	839.8	864.1	847.7
25°	695.8	742.5	817.1	845.4	819.8
27.5°	669.8	722.7	792.5	824.4	814.5
30°	641.5	700.0	768.7	831.5	849.6
32.5°	610.8	673.9	737.6	858.9	871.3
35°	577.9	642.6	709.8	868.3	898.9
37.5°	542.1	607.0	699.0	874.7	882.2
40°	506.5	568.4	693.9	839.4	867.2
42.5°	469.8	533.2	670.7	796.3	797.2
45°	427.9	500.0	637.0	701.4	650.4
47.5°	384.0	453.9	574.7	567.0	541.3
50°	341.1	403.2	503.8	464.1	473.6
52.5°	296.4	350.9	413.7	381.4	375.2
55°	247.3	286.9	304.7	281.1	224.7
57.5°	193.8	216.6	216.5	157.1	142.8
60°	131.1	144.7	144.0	93.7	74.7
62.5°	61.8	82.4	82.9	36.4	12.1
65°	18.0	31.3	31.8	3.4	2.1
67.5°	4.4	5.0	10.1	1.5	1.5
70°	2.4	2.0	1.6	1.1	1.1
72.5°	1.7	1.4	0.9	0.8	0.8
75°	1.2	1.0	0.7	0.5	0.4
77.5°	0.9	0.7	0.6	0.3	0.2
80°	0.5	0.3	0.4	0.1	0.1
82.5°	0.2	0.1	0.1	0.0	0.0
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: 109P141

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

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)