

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P568573

Luminaire Tested: **24CGTX-45-L850**

Issue Date: 9/19/2022

Test Information

Test Method: LM-79-08
Report Number: P568573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2206-672-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/19/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CGTX-45-L850
Description: 2X4 4500 LUMEN LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 5000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

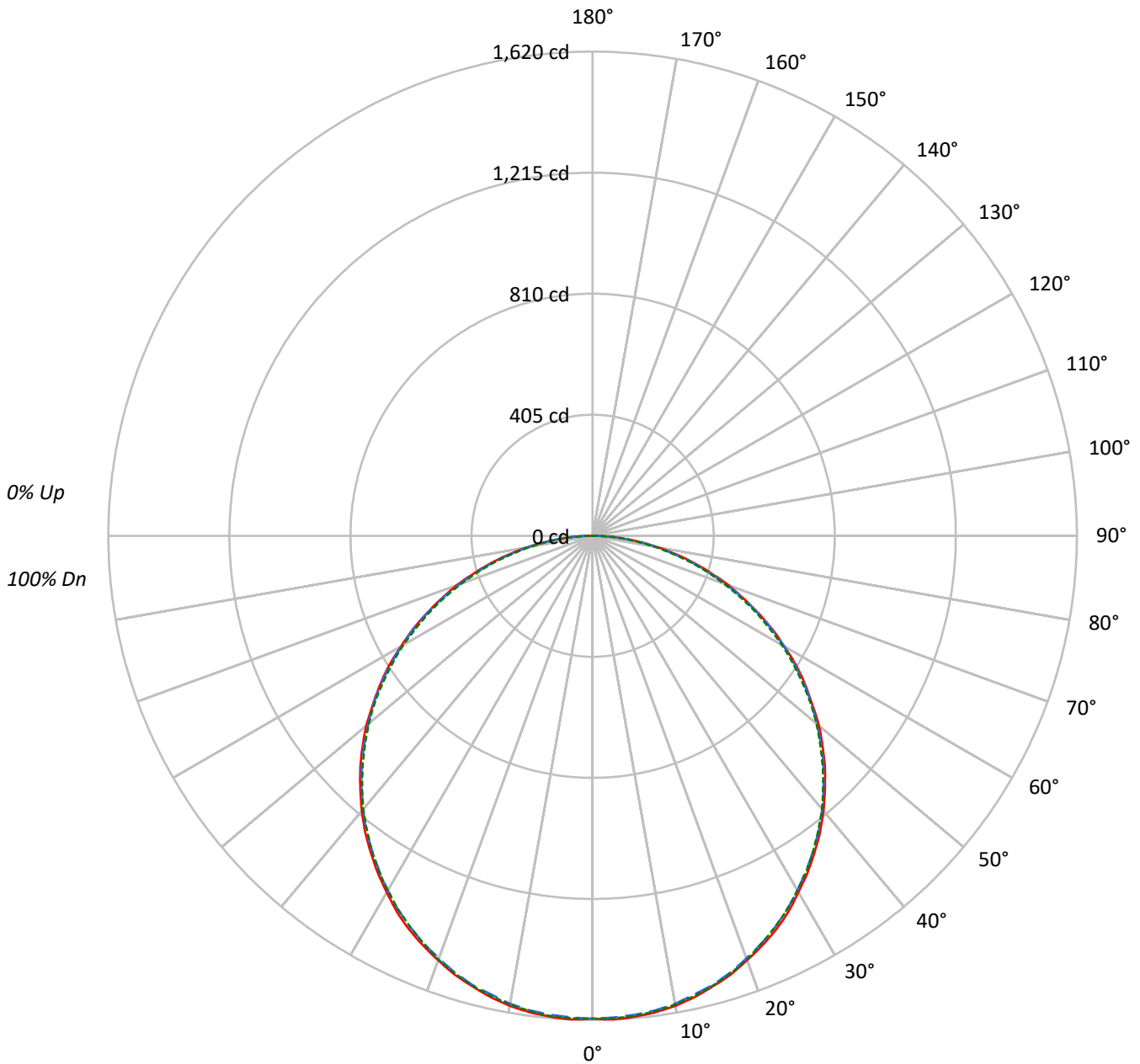
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4747.0 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.6
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									
RC	80									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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32																			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2174	2174	2174
5°	2182	2172	2179
10°	2182	2172	2175
15°	2173	2166	2170
20°	2164	2154	2161
25°	2158	2144	2144
30°	2140	2129	2129
35°	2125	2114	2114
40°	2110	2098	2098
45°	2092	2079	2070
50°	2069	2049	2044
55°	2036	2025	2009
60°	1993	1987	1968
65°	1945	1938	1908
70°	1903	1867	1830
75°	1829	1781	1745
80°	1722	1686	1614
85°	1572	1536	1465



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	3.2
10°-20°	438.9	9.2
20°-30°	666.1	14.0
30°-40°	805.9	17.0
40°-50°	841.9	17.7
50°-60°	770.2	16.2
60°-70°	599.4	12.6
70°-80°	361.3	7.6
80°-90°	110.1	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1258.1	26.5
0°-40°	2064.0	43.5
0°-60°	3676.1	77.4
0°-90°	4747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4747.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1616	1616	1616	1616	1616	
5°	1616	1611	1608	1608	1613	154
15°	1560	1555	1555	1553	1558	441
25°	1453	1446	1444	1442	1444	669
35°	1294	1289	1287	1287	1287	810
45°	1099	1092	1092	1088	1088	847
55°	868	866	863	856	856	775
65°	611	611	609	599	599	606
75°	352	347	342	336	336	370
85°	102	100	100	95	95	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1615.5	1615.5	1615.5	1615.5	1615.5
2.5°	1620.1	1615.5	1613.1	1613.1	1615.5
5°	1615.5	1610.8	1608.5	1608.5	1613.1
7.5°	1608.5	1601.6	1601.6	1599.3	1603.9
10°	1596.9	1590.0	1590.0	1587.7	1592.3
12.5°	1580.7	1573.8	1571.5	1571.5	1576.1
15°	1559.9	1555.3	1555.3	1553.0	1557.6
17.5°	1539.1	1532.1	1532.1	1529.8	1534.5
20°	1511.3	1506.7	1504.4	1504.4	1509.0
22.5°	1483.5	1478.9	1476.6	1476.6	1476.6
25°	1453.4	1446.5	1444.2	1441.9	1444.2
27.5°	1418.7	1409.5	1409.5	1407.2	1409.5
30°	1377.1	1372.4	1370.1	1367.8	1370.1
32.5°	1337.7	1330.8	1328.5	1330.8	1330.8
35°	1293.8	1289.1	1286.8	1286.8	1286.8
37.5°	1249.8	1242.8	1242.8	1240.5	1240.5
40°	1201.2	1196.5	1194.2	1194.2	1194.2
42.5°	1150.3	1145.6	1143.3	1141.0	1141.0
45°	1099.3	1092.4	1092.4	1087.8	1087.8
47.5°	1043.8	1039.2	1036.9	1032.2	1032.2
50°	988.3	983.6	979.0	979.0	976.7
52.5°	925.8	925.8	923.4	918.8	918.8
55°	867.9	865.6	863.3	856.3	856.3
57.5°	807.7	805.4	800.8	793.8	793.8
60°	740.6	740.6	738.3	729.0	731.4
62.5°	678.1	675.8	673.5	666.5	664.2
65°	611.0	611.0	608.7	599.4	599.4
67.5°	546.2	546.2	541.6	532.3	532.3
70°	483.7	476.8	474.5	467.5	465.2
72.5°	414.3	412.0	407.3	400.4	400.4
75°	351.8	347.2	342.5	335.6	335.6
77.5°	284.7	280.0	275.4	273.1	268.5
80°	222.2	219.9	217.6	210.6	208.3
82.5°	159.7	157.4	155.1	152.8	150.4
85°	101.8	99.5	99.5	94.9	94.9
87.5°	44.0	46.3	41.7	44.0	41.7
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)