

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: P568513

Luminaire Tested: **24CGTX-45-L830**

Issue Date: 9/19/2022

Test Information

Test Method: LM-79-08
Report Number: P568513
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-L830
Description: 2X4 4500 LUMEN LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 3000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

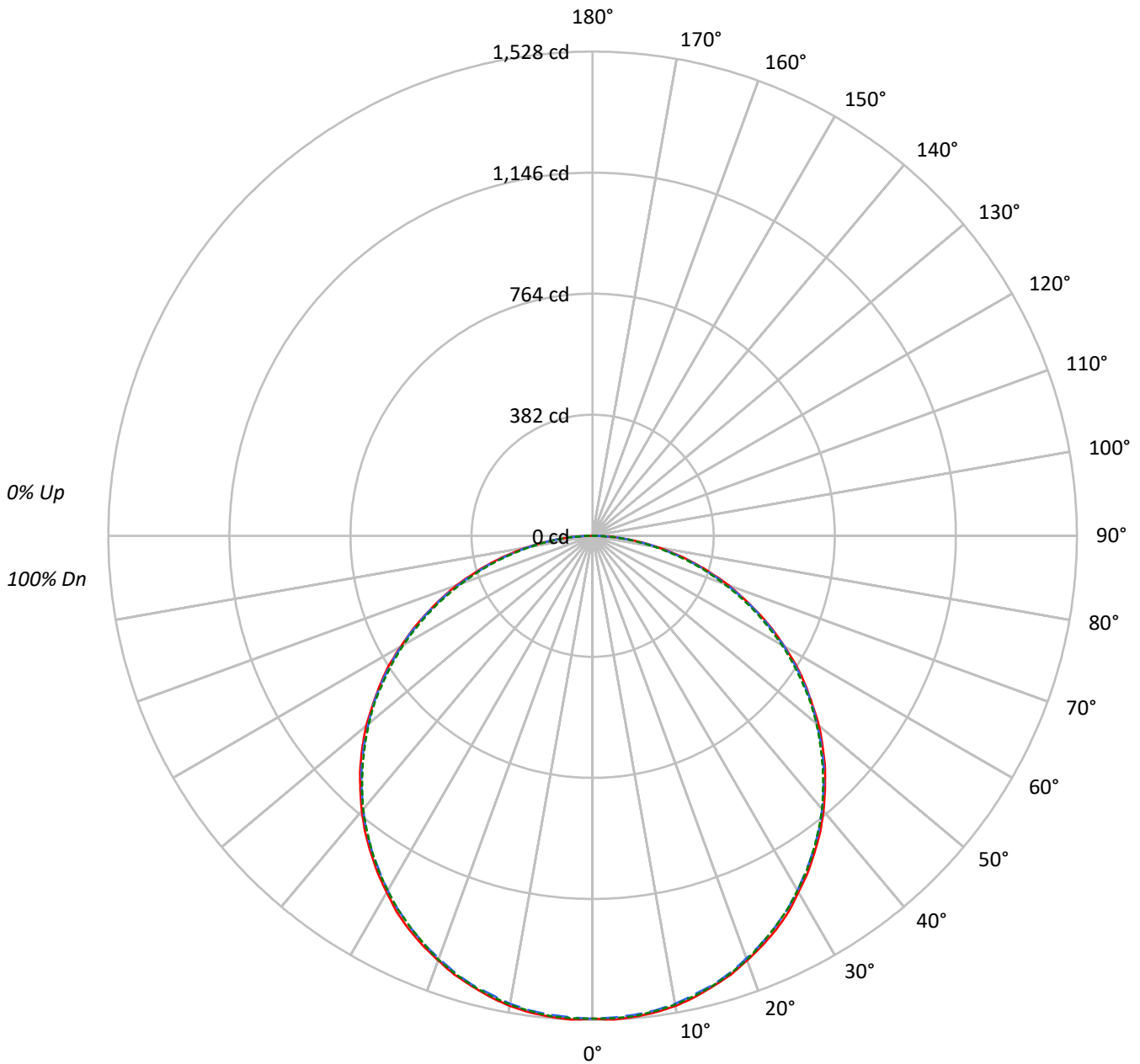
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4478.0 lumens
Efficiency: N/A
Efficacy: 125.8 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				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	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	23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2050	2050	2050
5°	2058	2049	2055
10°	2058	2049	2052
15°	2050	2044	2047
20°	2041	2032	2038
25°	2036	2023	2023
30°	2018	2008	2008
35°	2005	1994	1994
40°	1990	1979	1979
45°	1973	1961	1952
50°	1951	1933	1928
55°	1920	1910	1895
60°	1880	1874	1857
65°	1835	1828	1800
70°	1795	1761	1726
75°	1725	1680	1646
80°	1624	1590	1523
85°	1484	1450	1382



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	3.2
10°-20°	414.0	9.2
20°-30°	628.3	14.0
30°-40°	760.3	17.0
40°-50°	794.2	17.7
50°-60°	726.5	16.2
60°-70°	565.5	12.6
70°-80°	340.8	7.6
80°-90°	103.9	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°	1186.8	26.5
0°-40°	1947.1	43.5
0°-60°	3467.8	77.4
0°-90°	4478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1524	1524	1524	1524	1524	
5°	1524	1520	1517	1517	1522	145
15°	1472	1467	1467	1465	1469	416
25°	1371	1364	1362	1360	1362	631
35°	1220	1216	1214	1214	1214	764
45°	1037	1030	1030	1026	1026	799
55°	819	816	814	808	808	731
65°	576	576	574	566	566	571
75°	332	328	323	317	317	349
85°	96	94	94	90	90	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1523.9	1523.9	1523.9	1523.9	1523.9
2.5°	1528.3	1523.9	1521.7	1521.7	1523.9
5°	1523.9	1519.5	1517.4	1517.4	1521.7
7.5°	1517.4	1510.8	1510.8	1508.6	1513.0
10°	1506.4	1499.9	1499.9	1497.7	1502.1
12.5°	1491.2	1484.6	1482.4	1482.4	1486.8
15°	1471.5	1467.1	1467.1	1465.0	1469.3
17.5°	1451.9	1445.3	1445.3	1443.1	1447.5
20°	1425.7	1421.3	1419.1	1419.1	1423.5
22.5°	1399.5	1395.1	1392.9	1392.9	1392.9
25°	1371.1	1364.5	1362.4	1360.2	1362.4
27.5°	1338.3	1329.6	1329.6	1327.4	1329.6
30°	1299.0	1294.7	1292.5	1290.3	1292.5
32.5°	1261.9	1255.4	1253.2	1255.4	1255.4
35°	1220.4	1216.1	1213.9	1213.9	1213.9
37.5°	1179.0	1172.4	1172.4	1170.2	1170.2
40°	1133.1	1128.7	1126.6	1126.6	1126.6
42.5°	1085.1	1080.7	1078.5	1076.3	1076.3
45°	1037.0	1030.5	1030.5	1026.1	1026.1
47.5°	984.6	980.3	978.1	973.7	973.7
50°	932.3	927.9	923.5	923.5	921.3
52.5°	873.3	873.3	871.1	866.8	866.8
55°	818.7	816.5	814.4	807.8	807.8
57.5°	762.0	759.8	755.4	748.9	748.9
60°	698.6	698.6	696.5	687.7	689.9
62.5°	639.7	637.5	635.3	628.8	626.6
65°	576.4	576.4	574.2	565.5	565.5
67.5°	515.2	515.2	510.9	502.1	502.1
70°	456.3	449.8	447.6	441.0	438.8
72.5°	390.8	388.6	384.3	377.7	377.7
75°	331.9	327.5	323.1	316.6	316.6
77.5°	268.5	264.2	259.8	257.6	253.3
80°	209.6	207.4	205.2	198.7	196.5
82.5°	150.6	148.5	146.3	144.1	141.9
85°	96.1	93.9	93.9	89.5	89.5
87.5°	41.5	43.7	39.3	41.5	39.3
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)