

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: P568491

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

Issue Date: 9/19/2022

**Test Information**

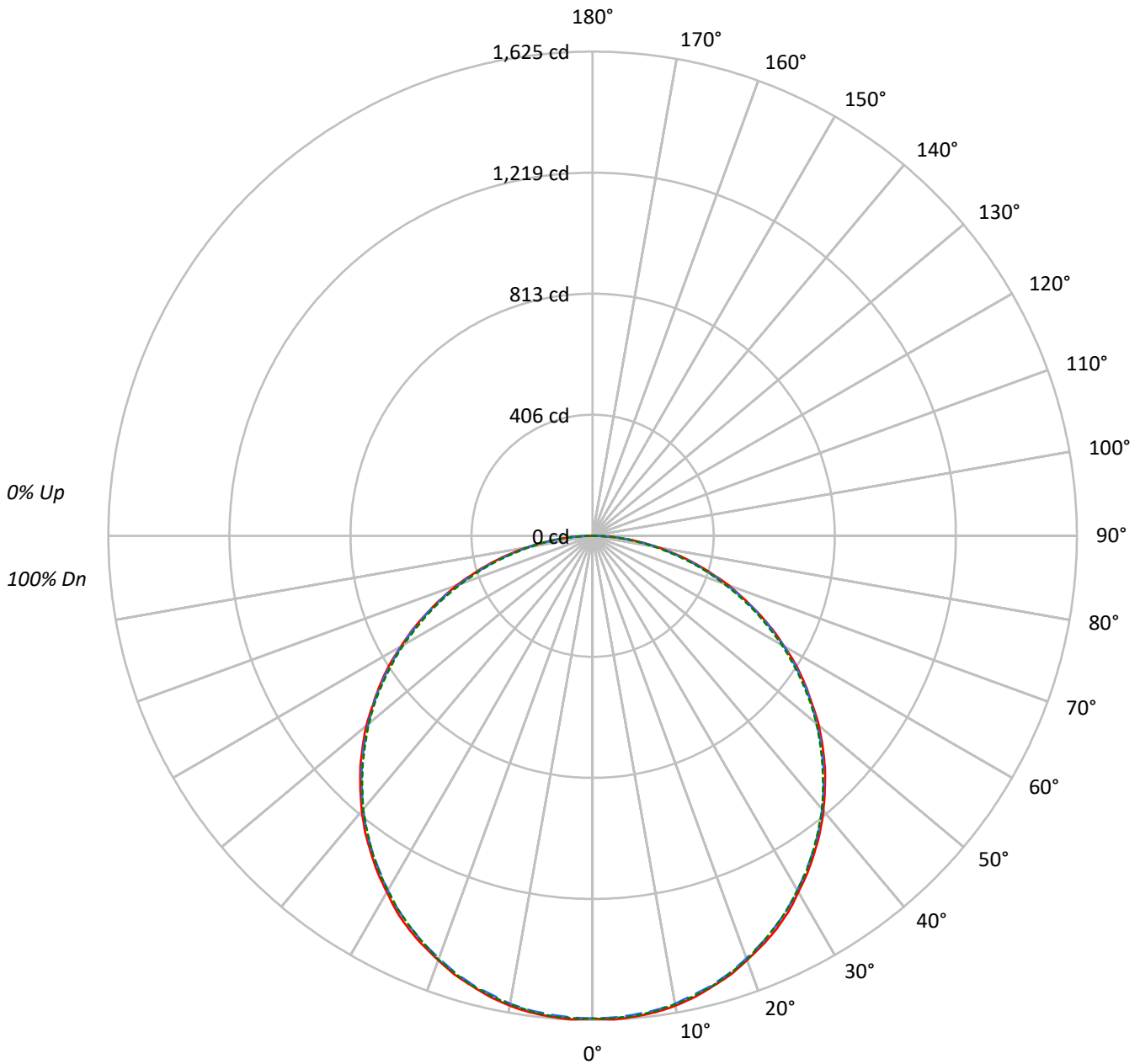
Test Method: LM-79-08  
Report Number: P568491  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2206-672-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CGTX-45HE-L850  
Description: 2X4 4500 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 5000K, 80CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4761.0 lumens  
Efficiency: N/A  
Efficacy: 137.2 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): 34.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	24								

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

	0°	45°	90°
0°	2180	2180	2180
5°	2188	2179	2185
10°	2188	2179	2182
15°	2179	2173	2176
20°	2170	2160	2167
25°	2164	2150	2150
30°	2146	2135	2135
35°	2131	2120	2120
40°	2116	2104	2104
45°	2098	2085	2076
50°	2075	2055	2051
55°	2042	2031	2015
60°	1999	1993	1974
65°	1951	1944	1914
70°	1908	1872	1836
75°	1834	1786	1750
80°	1726	1691	1619
85°	1576	1541	1470



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.5	3.2
10°-20°	440.2	9.2
20°-30°	668.0	14.0
30°-40°	808.3	17.0
40°-50°	844.4	17.7
50°-60°	772.4	16.2
60°-70°	601.2	12.6
70°-80°	362.4	7.6
80°-90°	110.4	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°	1261.8	26.5
0°-40°	2070.1	43.5
0°-60°	3687.0	77.4
0°-90°	4761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4761.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1620	1620	1620	1620	1620	
5°	1620	1616	1613	1613	1618	154
15°	1564	1560	1560	1558	1562	442
25°	1458	1451	1448	1446	1448	671
35°	1298	1293	1291	1291	1291	812
45°	1103	1096	1096	1091	1091	850
55°	870	868	866	859	859	778
65°	613	613	610	601	601	607
75°	353	348	344	337	337	371
85°	102	100	100	95	95	114
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1620.2	1620.2	1620.2	1620.2	1620.2
2.5°	1624.9	1620.2	1617.9	1617.9	1620.2
5°	1620.2	1615.6	1613.3	1613.3	1617.9
7.5°	1613.3	1606.3	1606.3	1604.0	1608.6
10°	1601.7	1594.7	1594.7	1592.4	1597.0
12.5°	1585.4	1578.4	1576.1	1576.1	1580.8
15°	1564.5	1559.9	1559.9	1557.5	1562.2
17.5°	1543.6	1536.7	1536.7	1534.3	1539.0
20°	1515.8	1511.1	1508.8	1508.8	1513.4
22.5°	1487.9	1483.3	1480.9	1480.9	1480.9
25°	1457.7	1450.8	1448.4	1446.1	1448.4
27.5°	1422.9	1413.6	1413.6	1411.3	1413.6
30°	1381.1	1376.5	1374.2	1371.8	1374.2
32.5°	1341.7	1334.7	1332.4	1334.7	1334.7
35°	1297.6	1292.9	1290.6	1290.6	1290.6
37.5°	1253.5	1246.5	1246.5	1244.2	1244.2
40°	1204.7	1200.1	1197.8	1197.8	1197.8
42.5°	1153.7	1149.0	1146.7	1144.4	1144.4
45°	1102.6	1095.6	1095.6	1091.0	1091.0
47.5°	1046.9	1042.2	1039.9	1035.3	1035.3
50°	991.2	986.5	981.9	981.9	979.6
52.5°	928.5	928.5	926.2	921.5	921.5
55°	870.5	868.1	865.8	858.9	858.9
57.5°	810.1	807.8	803.1	796.2	796.2
60°	742.8	742.8	740.5	731.2	733.5
62.5°	680.1	677.8	675.5	668.5	666.2
65°	612.8	612.8	610.5	601.2	601.2
67.5°	547.8	547.8	543.2	533.9	533.9
70°	485.1	478.2	475.9	468.9	466.6
72.5°	415.5	413.2	408.5	401.6	401.6
75°	352.8	348.2	343.5	336.6	336.6
77.5°	285.5	280.9	276.2	273.9	269.3
80°	222.8	220.5	218.2	211.2	208.9
82.5°	160.2	157.8	155.5	153.2	150.9
85°	102.1	99.8	99.8	95.2	95.2
87.5°	44.1	46.4	41.8	44.1	41.8
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)