

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: P568469

Luminaire Tested: **24CGTX-45HE-L840**

Issue Date: 9/19/2022

**Test Information**

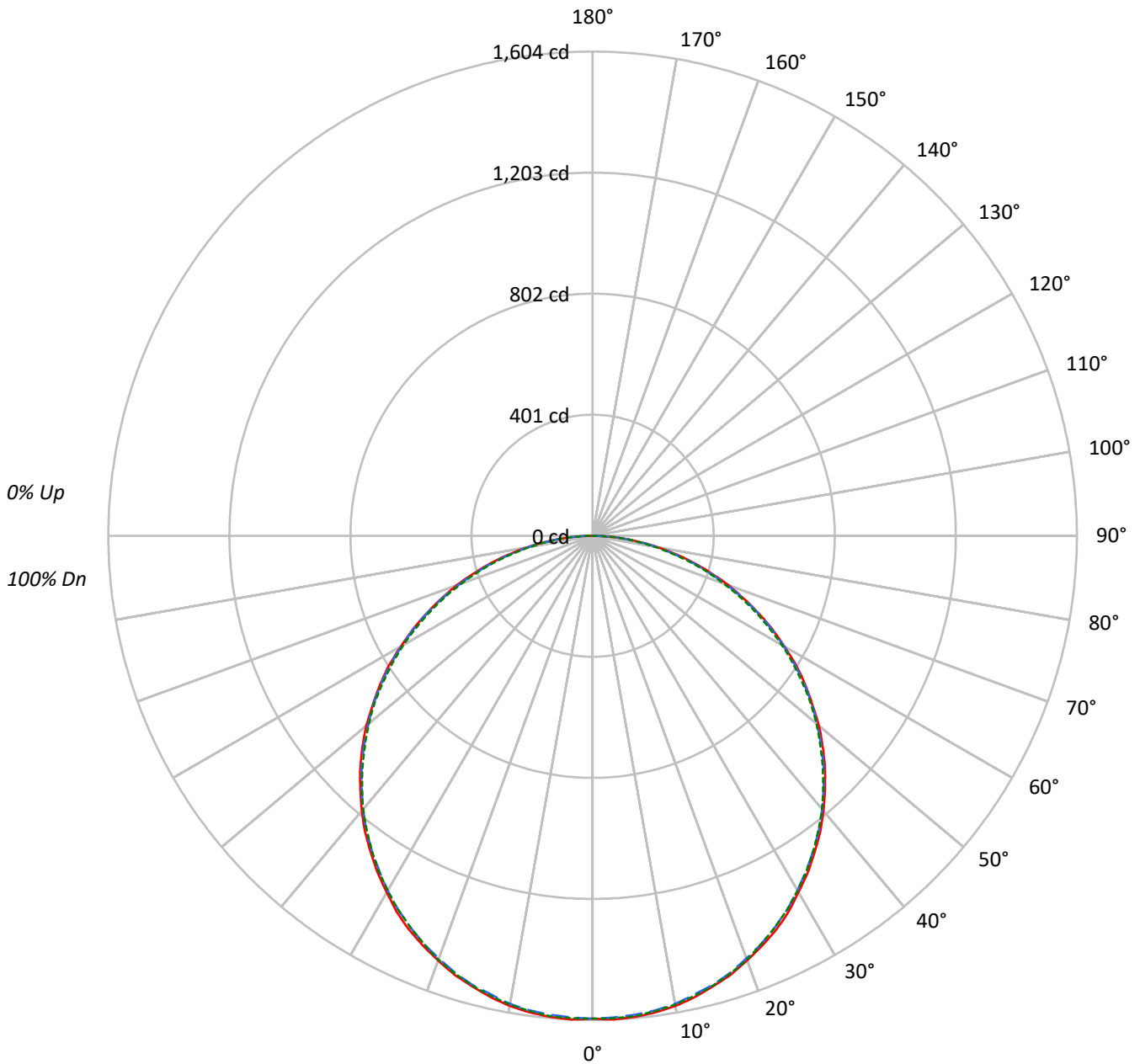
Test Method: LM-79-08  
Report Number: P568469  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2206-672-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CGTX-45HE-L840  
Description: 2X4 4500 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 4000K, 80CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4701.0 lumens  
Efficiency: N/A  
Efficacy: 135.5 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°	2153	2153	2153
5°	2161	2151	2158
10°	2161	2151	2154
15°	2152	2145	2149
20°	2143	2133	2140
25°	2137	2123	2123
30°	2119	2108	2108
35°	2104	2093	2093
40°	2089	2077	2077
45°	2072	2058	2050
50°	2049	2029	2025
55°	2016	2005	1989
60°	1974	1967	1949
65°	1926	1919	1890
70°	1884	1849	1812
75°	1811	1763	1727
80°	1705	1669	1598
85°	1556	1522	1451



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.6	3.2
10°-20°	434.7	9.2
20°-30°	659.6	14.0
30°-40°	798.1	17.0
40°-50°	833.8	17.7
50°-60°	762.7	16.2
60°-70°	593.6	12.6
70°-80°	357.8	7.6
80°-90°	109.1	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°	1245.9	26.5
0°-40°	2044.1	43.5
0°-60°	3640.5	77.4
0°-90°	4701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4701.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1600	1600	1600	1600	1600	
5°	1600	1595	1593	1593	1598	152
15°	1545	1540	1540	1538	1542	436
25°	1439	1432	1430	1428	1430	663
35°	1281	1277	1274	1274	1274	802
45°	1089	1082	1082	1077	1077	839
55°	860	857	855	848	848	768
65°	605	605	603	594	594	600
75°	348	344	339	332	332	367
85°	101	99	99	94	94	112
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1599.8	1599.8	1599.8	1599.8	1599.8
2.5°	1604.4	1599.8	1597.5	1597.5	1599.8
5°	1599.8	1595.2	1592.9	1592.9	1597.5
7.5°	1592.9	1586.1	1586.1	1583.8	1588.3
10°	1581.5	1574.6	1574.6	1572.3	1576.9
12.5°	1565.4	1558.5	1556.3	1556.3	1560.8
15°	1544.8	1540.2	1540.2	1537.9	1542.5
17.5°	1524.2	1517.3	1517.3	1515.0	1519.6
20°	1496.7	1492.1	1489.8	1489.8	1494.4
22.5°	1469.2	1464.6	1462.3	1462.3	1462.3
25°	1439.4	1432.5	1430.2	1427.9	1430.2
27.5°	1405.0	1395.8	1395.8	1393.5	1395.8
30°	1363.7	1359.1	1356.9	1354.6	1356.9
32.5°	1324.8	1317.9	1315.6	1317.9	1317.9
35°	1281.2	1276.6	1274.3	1274.3	1274.3
37.5°	1237.7	1230.8	1230.8	1228.5	1228.5
40°	1189.5	1185.0	1182.7	1182.7	1182.7
42.5°	1139.1	1134.5	1132.2	1129.9	1129.9
45°	1088.7	1081.8	1081.8	1077.2	1077.2
47.5°	1033.7	1029.1	1026.8	1022.2	1022.2
50°	978.7	974.1	969.5	969.5	967.2
52.5°	916.8	916.8	914.5	909.9	909.9
55°	859.5	857.2	854.9	848.0	848.0
57.5°	799.9	797.6	793.0	786.1	786.1
60°	733.4	733.4	731.1	722.0	724.3
62.5°	671.6	669.3	667.0	660.1	657.8
65°	605.1	605.1	602.8	593.6	593.6
67.5°	540.9	540.9	536.3	527.2	527.2
70°	479.0	472.1	469.9	463.0	460.7
72.5°	410.3	408.0	403.4	396.5	396.5
75°	348.4	343.8	339.2	332.3	332.3
77.5°	281.9	277.3	272.7	270.5	265.9
80°	220.0	217.7	215.4	208.6	206.3
82.5°	158.1	155.9	153.6	151.3	149.0
85°	100.8	98.6	98.6	94.0	94.0
87.5°	43.5	45.8	41.3	43.5	41.3
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)