

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: P568379

Luminaire Tested: **22CGTX-45HE-L850**

Issue Date: 9/19/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P568379  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2205-645-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CGTX-45HE-L850  
Description: 2X2 4500 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 5000K, 80CRI LEDS  
Light Source: -  
Ballast/Driver: -

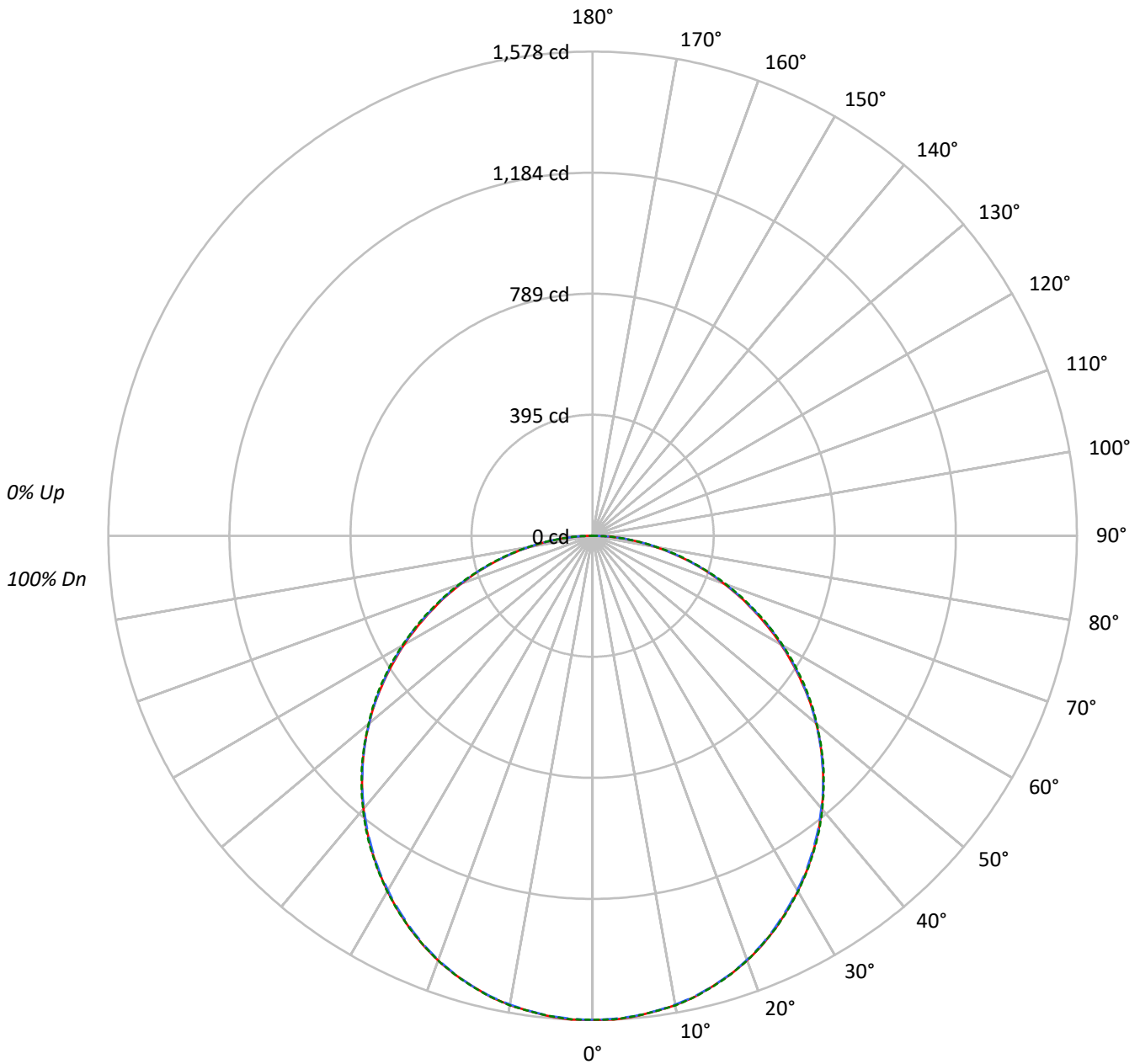
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4617.0 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 36.2  
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	77	73	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	80	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	33								
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	39	31	26	38	30	26	37	30	25	36	30	25	24								

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

	0°	45°	90°
0°	4245	4245	4245
5°	4249	4244	4246
10°	4244	4240	4246
15°	4231	4231	4235
20°	4218	4211	4218
25°	4189	4180	4192
30°	4154	4145	4159
35°	4119	4111	4126
40°	4081	4073	4089
45°	4035	4032	4047
50°	3982	3978	3991
55°	3902	3913	3939
60°	3816	3832	3858
65°	3704	3729	3759
70°	3574	3611	3643
75°	3432	3457	3498
80°	3228	3265	3288
85°	2936	2961	3010



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.3	3.2
10°-20°	428.6	9.3
20°-30°	649.5	14.1
30°-40°	784.4	17.0
40°-50°	818.4	17.7
50°-60°	746.3	16.2
60°-70°	580.1	12.6
70°-80°	351.9	7.6
80°-90°	108.5	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°	1227.4	26.6
0°-40°	2011.8	43.6
0°-60°	3576.5	77.5
0°-90°	4617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4617.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1578	1578	1578	1578	1578	
5°	1573	1570	1571	1570	1572	149
15°	1519	1519	1519	1519	1520	429
25°	1411	1408	1408	1410	1412	650
35°	1254	1252	1251	1256	1256	784
45°	1060	1060	1060	1064	1064	818
55°	832	833	834	836	840	744
65°	582	583	586	588	590	576
75°	330	329	332	336	336	349
85°	95	96	96	98	98	107
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1577.5	1577.5	1577.5	1577.5	1577.5
2.5°	1578.3	1576.0	1576.0	1575.2	1577.5
5°	1572.8	1570.5	1571.2	1570.5	1572.0
7.5°	1563.4	1561.8	1562.6	1561.8	1563.4
10°	1553.2	1551.6	1551.6	1551.6	1554.0
12.5°	1539.0	1537.4	1537.4	1537.4	1539.0
15°	1518.6	1518.6	1518.6	1518.6	1520.2
17.5°	1498.1	1495.8	1496.6	1495.8	1498.1
20°	1473.0	1469.9	1470.6	1470.6	1473.0
22.5°	1443.9	1440.8	1441.6	1441.6	1443.1
25°	1410.9	1407.8	1407.8	1410.1	1411.7
27.5°	1374.7	1372.4	1371.6	1375.5	1376.3
30°	1337.0	1335.4	1333.9	1337.8	1338.6
32.5°	1296.9	1295.4	1294.6	1298.5	1298.5
35°	1253.7	1252.1	1251.3	1256.1	1256.1
37.5°	1208.9	1208.1	1206.5	1211.3	1212.0
40°	1161.7	1160.2	1159.4	1164.1	1164.1
42.5°	1112.2	1110.6	1111.4	1115.4	1114.6
45°	1060.3	1059.5	1059.5	1064.3	1063.5
47.5°	1006.9	1005.3	1006.1	1010.8	1009.2
50°	951.1	949.5	950.3	955.0	953.4
52.5°	893.7	892.1	893.7	898.4	898.4
55°	831.6	833.2	834.0	836.3	839.5
57.5°	771.1	771.9	775.0	776.6	778.9
60°	709.0	710.6	712.1	715.3	716.8
62.5°	645.3	647.7	652.4	652.4	654.0
65°	581.7	583.2	585.6	587.9	590.3
67.5°	518.8	519.6	523.5	524.3	526.6
70°	454.3	455.1	459.0	459.8	463.0
72.5°	393.0	392.2	395.4	399.3	399.3
75°	330.1	329.3	332.5	335.6	336.4
77.5°	268.8	268.0	270.4	274.3	274.3
80°	208.3	209.9	210.7	213.8	212.2
82.5°	150.1	150.9	151.7	154.1	152.5
85°	95.1	95.9	95.9	98.3	97.5
87.5°	44.8	44.0	44.0	45.6	44.8
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)