

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: P568343

Luminaire Tested: **22CGTX-45HE-L830**

Issue Date: 9/19/2022

**Test Information**

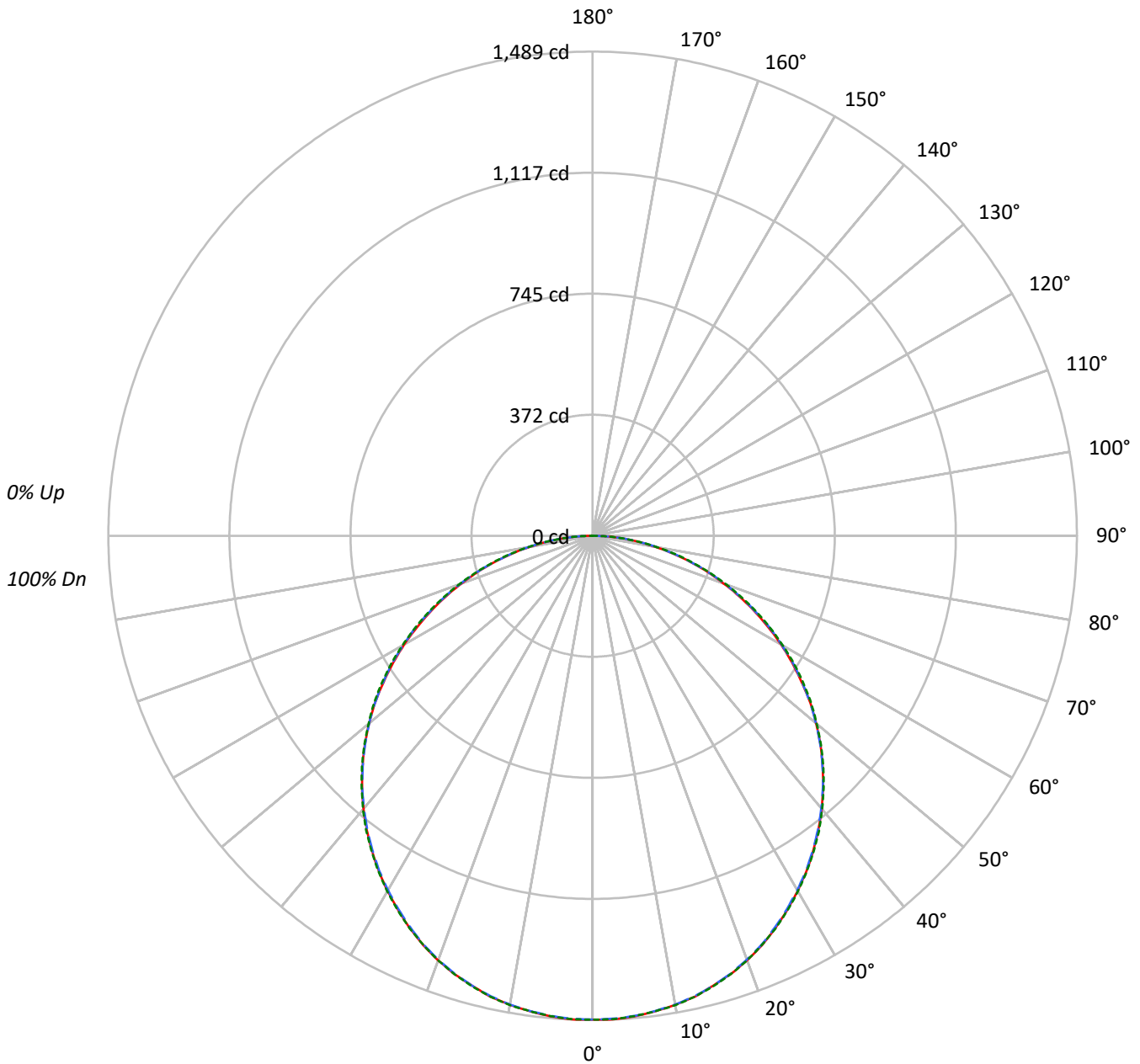
Test Method: LM-79-08  
Report Number: P568343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2205-645-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CGTX-45HE-L830  
Description: 2X2 4500 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 3000K, 80CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4355.0 lumens  
Efficiency: N/A  
Efficacy: 120.3 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

TEST NUMBER: P568343  
CATALOG NUMBER: 22CGTX-45HE-L830

### 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°	4004	4004	4004
5°	4008	4004	4005
10°	4003	3999	4005
15°	3991	3991	3995
20°	3979	3972	3979
25°	3951	3943	3954
30°	3919	3910	3923
35°	3885	3877	3892
40°	3849	3842	3857
45°	3806	3803	3817
50°	3756	3753	3765
55°	3680	3690	3715
60°	3599	3615	3639
65°	3493	3517	3545
70°	3371	3407	3436
75°	3238	3261	3299
80°	3045	3079	3102
85°	2770	2794	2837



TEST NUMBER: P568343

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.9	3.2
10°-20°	404.3	9.3
20°-30°	612.6	14.1
30°-40°	739.9	17.0
40°-50°	771.9	17.7
50°-60°	704.0	16.2
60°-70°	547.2	12.6
70°-80°	331.9	7.6
80°-90°	102.3	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°	1157.8	26.6
0°-40°	1897.7	43.6
0°-60°	3373.6	77.5
0°-90°	4355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4355.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1488	1488	1488	1488	1488	
5°	1484	1481	1482	1481	1483	141
15°	1432	1432	1432	1432	1434	405
25°	1331	1328	1328	1330	1332	613
35°	1183	1181	1180	1185	1185	740
45°	1000	999	999	1004	1003	771
55°	784	786	787	789	792	702
65°	549	550	552	555	557	543
75°	311	311	314	317	317	329
85°	90	90	90	93	92	101
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1488.0	1488.0	1488.0	1488.0	1488.0
2.5°	1488.8	1486.5	1486.5	1485.8	1488.0
5°	1483.6	1481.3	1482.1	1481.3	1482.8
7.5°	1474.7	1473.2	1473.9	1473.2	1474.7
10°	1465.0	1463.5	1463.5	1463.5	1465.8
12.5°	1451.7	1450.2	1450.2	1450.2	1451.7
15°	1432.4	1432.4	1432.4	1432.4	1433.9
17.5°	1413.1	1410.9	1411.6	1410.9	1413.1
20°	1389.4	1386.4	1387.2	1387.2	1389.4
22.5°	1362.0	1359.0	1359.8	1359.8	1361.2
25°	1330.8	1327.9	1327.9	1330.1	1331.6
27.5°	1296.7	1294.5	1293.8	1297.5	1298.2
30°	1261.1	1259.7	1258.2	1261.9	1262.6
32.5°	1223.3	1221.8	1221.1	1224.8	1224.8
35°	1182.6	1181.1	1180.3	1184.8	1184.8
37.5°	1140.3	1139.6	1138.1	1142.5	1143.3
40°	1095.8	1094.3	1093.6	1098.0	1098.0
42.5°	1049.1	1047.6	1048.4	1052.1	1051.3
45°	1000.2	999.4	999.4	1003.9	1003.1
47.5°	949.7	948.3	949.0	953.5	952.0
50°	897.1	895.6	896.4	900.8	899.3
52.5°	843.0	841.5	843.0	847.4	847.4
55°	784.4	785.9	786.6	788.9	791.8
57.5°	727.3	728.1	731.0	732.5	734.7
60°	668.8	670.2	671.7	674.7	676.2
62.5°	608.7	610.9	615.4	615.4	616.9
65°	548.6	550.1	552.4	554.6	556.8
67.5°	489.3	490.1	493.8	494.5	496.7
70°	428.5	429.3	433.0	433.7	436.7
72.5°	370.7	370.0	372.9	376.6	376.6
75°	311.4	310.7	313.6	316.6	317.3
77.5°	253.6	252.8	255.0	258.8	258.8
80°	196.5	198.0	198.7	201.7	200.2
82.5°	141.6	142.4	143.1	145.3	143.8
85°	89.7	90.5	90.5	92.7	91.9
87.5°	42.3	41.5	41.5	43.0	42.3
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)