

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: P568407

Luminaire Tested: **22CGTX-45-L840**

Issue Date: 9/19/2022

**Test Information**

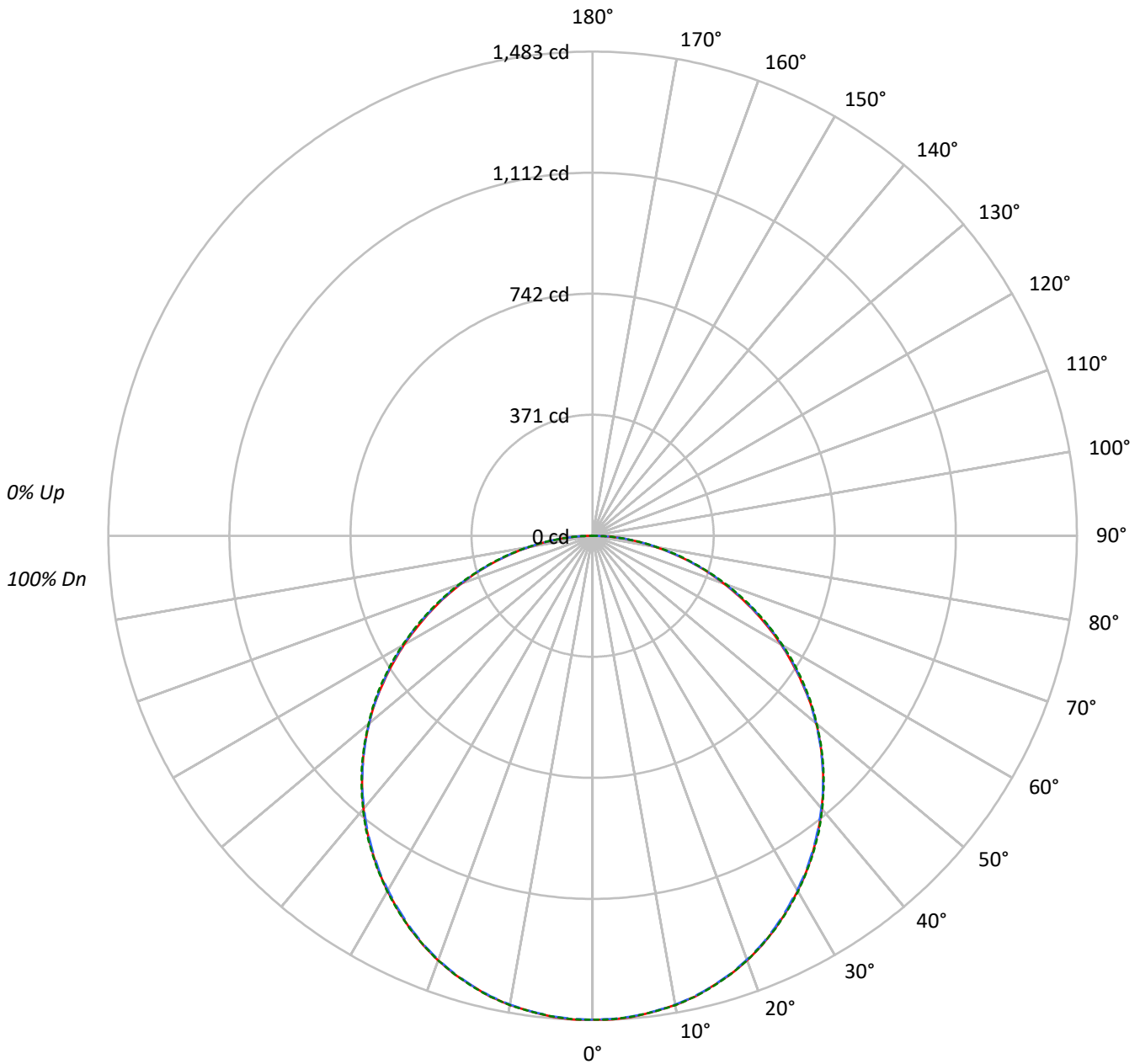
Test Method: LM-79-08  
Report Number: P568407  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2205-645-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CGTX-45-L840  
Description: 2X2 4500 LUMEN LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND  
4000K, 80CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4338.0 lumens  
Efficiency: N/A  
Efficacy: 115.7 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): 37.5  
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°	3989	3989	3989
5°	3992	3988	3990
10°	3988	3983	3990
15°	3975	3975	3979
20°	3963	3957	3963
25°	3936	3927	3938
30°	3903	3894	3908
35°	3869	3862	3877
40°	3834	3827	3842
45°	3792	3788	3803
50°	3741	3738	3750
55°	3666	3676	3700
60°	3585	3601	3625
65°	3480	3503	3531
70°	3359	3393	3423
75°	3225	3248	3287
80°	3033	3067	3090
85°	2760	2782	2828



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.3	3.2
10°-20°	402.7	9.3
20°-30°	610.2	14.1
30°-40°	737.0	17.0
40°-50°	768.9	17.7
50°-60°	701.2	16.2
60°-70°	545.0	12.6
70°-80°	330.6	7.6
80°-90°	101.9	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°	1153.3	26.6
0°-40°	1890.2	43.6
0°-60°	3360.4	77.5
0°-90°	4338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4338.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1482	1482	1482	1482	1482	
5°	1478	1476	1476	1476	1477	140
15°	1427	1427	1427	1427	1428	403
25°	1326	1323	1323	1325	1326	611
35°	1178	1176	1176	1180	1180	737
45°	996	996	996	1000	999	768
55°	781	783	784	786	789	699
65°	546	548	550	552	555	541
75°	310	309	312	315	316	328
85°	89	90	90	92	92	101
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1482.2	1482.2	1482.2	1482.2	1482.2
2.5°	1482.9	1480.7	1480.7	1480.0	1482.2
5°	1477.8	1475.6	1476.3	1475.6	1477.0
7.5°	1468.9	1467.4	1468.2	1467.4	1468.9
10°	1459.3	1457.8	1457.8	1457.8	1460.1
12.5°	1446.0	1444.5	1444.5	1444.5	1446.0
15°	1426.8	1426.8	1426.8	1426.8	1428.3
17.5°	1407.6	1405.4	1406.1	1405.4	1407.6
20°	1384.0	1381.0	1381.8	1381.8	1384.0
22.5°	1356.7	1353.7	1354.4	1354.4	1355.9
25°	1325.6	1322.7	1322.7	1324.9	1326.4
27.5°	1291.7	1289.5	1288.7	1292.4	1293.1
30°	1256.2	1254.7	1253.3	1257.0	1257.7
32.5°	1218.6	1217.1	1216.3	1220.0	1220.0
35°	1177.9	1176.5	1175.7	1180.2	1180.2
37.5°	1135.8	1135.1	1133.6	1138.1	1138.8
40°	1091.5	1090.1	1089.3	1093.7	1093.7
42.5°	1045.0	1043.5	1044.3	1048.0	1047.2
45°	996.3	995.5	995.5	1000.0	999.2
47.5°	946.0	944.6	945.3	949.7	948.3
50°	893.6	892.1	892.9	897.3	895.8
52.5°	839.7	838.2	839.7	844.1	844.1
55°	781.4	782.8	783.6	785.8	788.7
57.5°	724.5	725.2	728.2	729.7	731.9
60°	666.1	667.6	669.1	672.1	673.5
62.5°	606.3	608.5	613.0	613.0	614.4
65°	546.5	548.0	550.2	552.4	554.6
67.5°	487.4	488.2	491.9	492.6	494.8
70°	426.9	427.6	431.3	432.0	435.0
72.5°	369.3	368.5	371.5	375.2	375.2
75°	310.2	309.4	312.4	315.3	316.1
77.5°	252.6	251.8	254.1	257.7	257.7
80°	195.7	197.2	197.9	200.9	199.4
82.5°	141.1	141.8	142.5	144.7	143.3
85°	89.4	90.1	90.1	92.3	91.6
87.5°	42.1	41.4	41.4	42.8	42.1
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)