

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: P568367

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

Issue Date: 9/19/2022

Test Information

Test Method: LM-79-08
Report Number: P568367
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-L840
Description: 2X2 4500 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 4000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

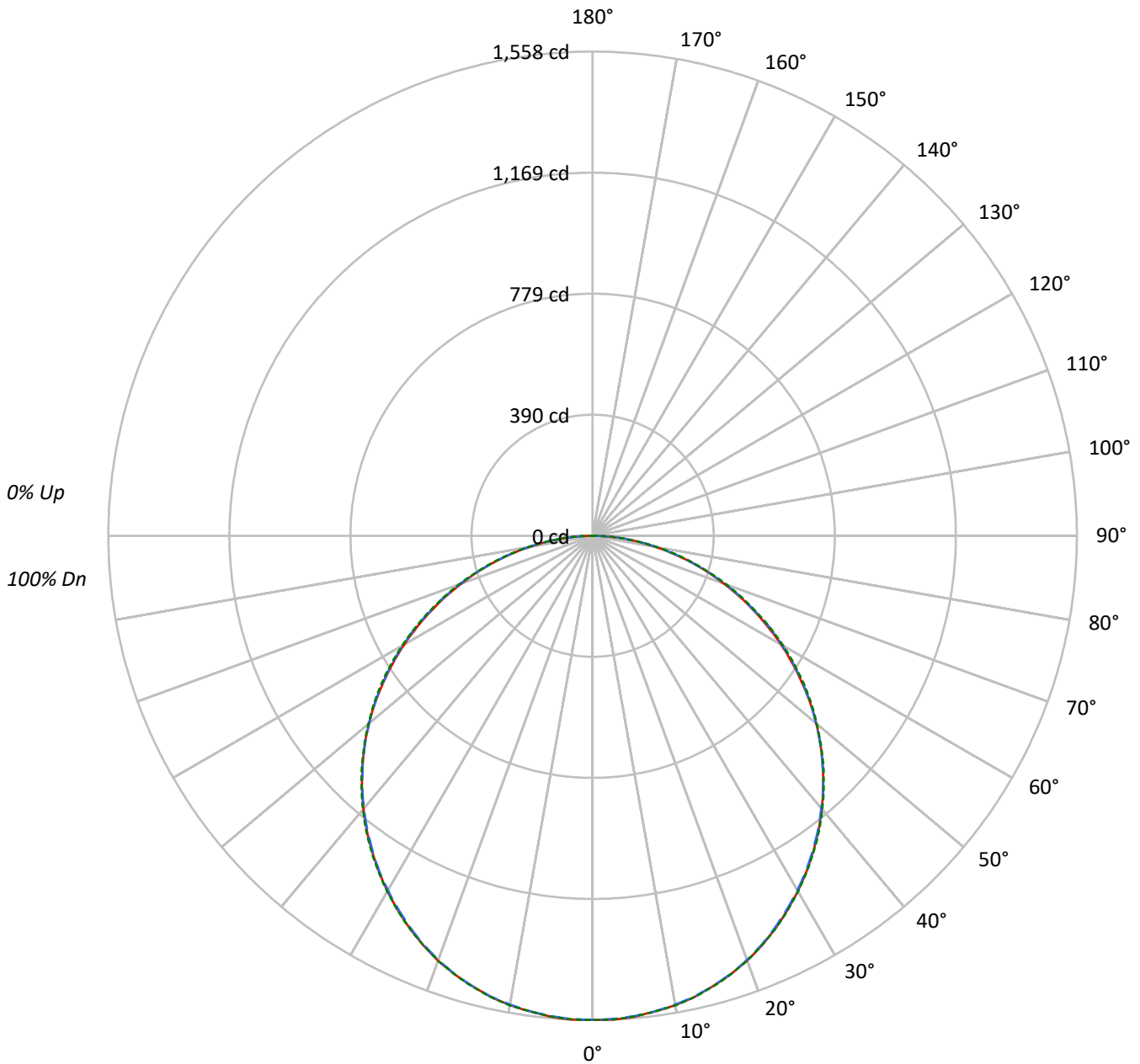
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4559.0 lumens
Efficiency: N/A
Efficacy: 125.9 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_{in}): 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: P568367
CATALOG NUMBER: 22CGTX-45HE-L840

Luminous Intensity Polar Plot





TEST NUMBER: P568367

CATALOG NUMBER: 22CGTX-45HE-L840

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°	4192	4192	4192
5°	4195	4191	4193
10°	4191	4186	4193
15°	4177	4177	4182
20°	4165	4159	4165
25°	4137	4127	4139
30°	4102	4093	4107
35°	4067	4059	4074
40°	4030	4021	4038
45°	3984	3981	3996
50°	3931	3929	3942
55°	3853	3864	3889
60°	3768	3785	3809
65°	3657	3682	3712
70°	3530	3567	3596
75°	3389	3413	3454
80°	3188	3223	3248
85°	2899	2924	2970



TEST NUMBER: P568367

CATALOG NUMBER: 22CGTX-45HE-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	3.2
10°-20°	423.2	9.3
20°-30°	641.3	14.1
30°-40°	774.5	17.0
40°-50°	808.1	17.7
50°-60°	737.0	16.2
60°-70°	572.8	12.6
70°-80°	347.5	7.6
80°-90°	107.1	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°	1212.0	26.6
0°-40°	1986.5	43.6
0°-60°	3531.6	77.5
0°-90°	4559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4559.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1553	1551	1552	1551	1552	148
15°	1500	1500	1500	1500	1501	424
25°	1393	1390	1390	1392	1394	642
35°	1238	1236	1236	1240	1240	775
45°	1047	1046	1046	1051	1050	808
55°	821	823	824	826	829	735
65°	574	576	578	581	583	569
75°	326	325	328	331	332	345
85°	94	95	95	97	96	106
90°	0	0	0	0	0	



TEST NUMBER: P568367

CATALOG NUMBER: 22CGTX-45HE-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1557.7	1557.7	1557.7	1557.7	1557.7
2.5°	1558.5	1556.2	1556.2	1555.4	1557.7
5°	1553.1	1550.7	1551.5	1550.7	1552.3
7.5°	1543.7	1542.2	1543.0	1542.2	1543.7
10°	1533.7	1532.1	1532.1	1532.1	1534.4
12.5°	1519.7	1518.1	1518.1	1518.1	1519.7
15°	1499.5	1499.5	1499.5	1499.5	1501.1
17.5°	1479.3	1477.0	1477.8	1477.0	1479.3
20°	1454.5	1451.4	1452.2	1452.2	1454.5
22.5°	1425.8	1422.7	1423.4	1423.4	1425.0
25°	1393.2	1390.1	1390.1	1392.4	1394.0
27.5°	1357.5	1355.1	1354.4	1358.2	1359.0
30°	1320.2	1318.7	1317.1	1321.0	1321.8
32.5°	1280.6	1279.1	1278.3	1282.2	1282.2
35°	1237.9	1236.4	1235.6	1240.3	1240.3
37.5°	1193.7	1192.9	1191.4	1196.0	1196.8
40°	1147.1	1145.6	1144.8	1149.5	1149.5
42.5°	1098.2	1096.7	1097.5	1101.3	1100.6
45°	1047.0	1046.2	1046.2	1050.9	1050.1
47.5°	994.2	992.7	993.5	998.1	996.6
50°	939.1	937.6	938.4	943.0	941.5
52.5°	882.5	880.9	882.5	887.1	887.1
55°	821.2	822.7	823.5	825.8	828.9
57.5°	761.4	762.2	765.3	766.8	769.2
60°	700.1	701.6	703.2	706.3	707.8
62.5°	637.2	639.5	644.2	644.2	645.8
65°	574.3	575.9	578.2	580.6	582.9
67.5°	512.3	513.0	516.9	517.7	520.0
70°	448.6	449.4	453.3	454.0	457.1
72.5°	388.1	387.3	390.4	394.3	394.3
75°	326.0	325.2	328.3	331.4	332.2
77.5°	265.4	264.7	267.0	270.9	270.9
80°	205.7	207.2	208.0	211.1	209.6
82.5°	148.2	149.0	149.8	152.1	150.6
85°	93.9	94.7	94.7	97.0	96.2
87.5°	44.2	43.5	43.5	45.0	44.2
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)