

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: P568368

Luminaire Tested: **22CGTX-50HE-L840**

Issue Date: 9/19/2022

**Test Information**

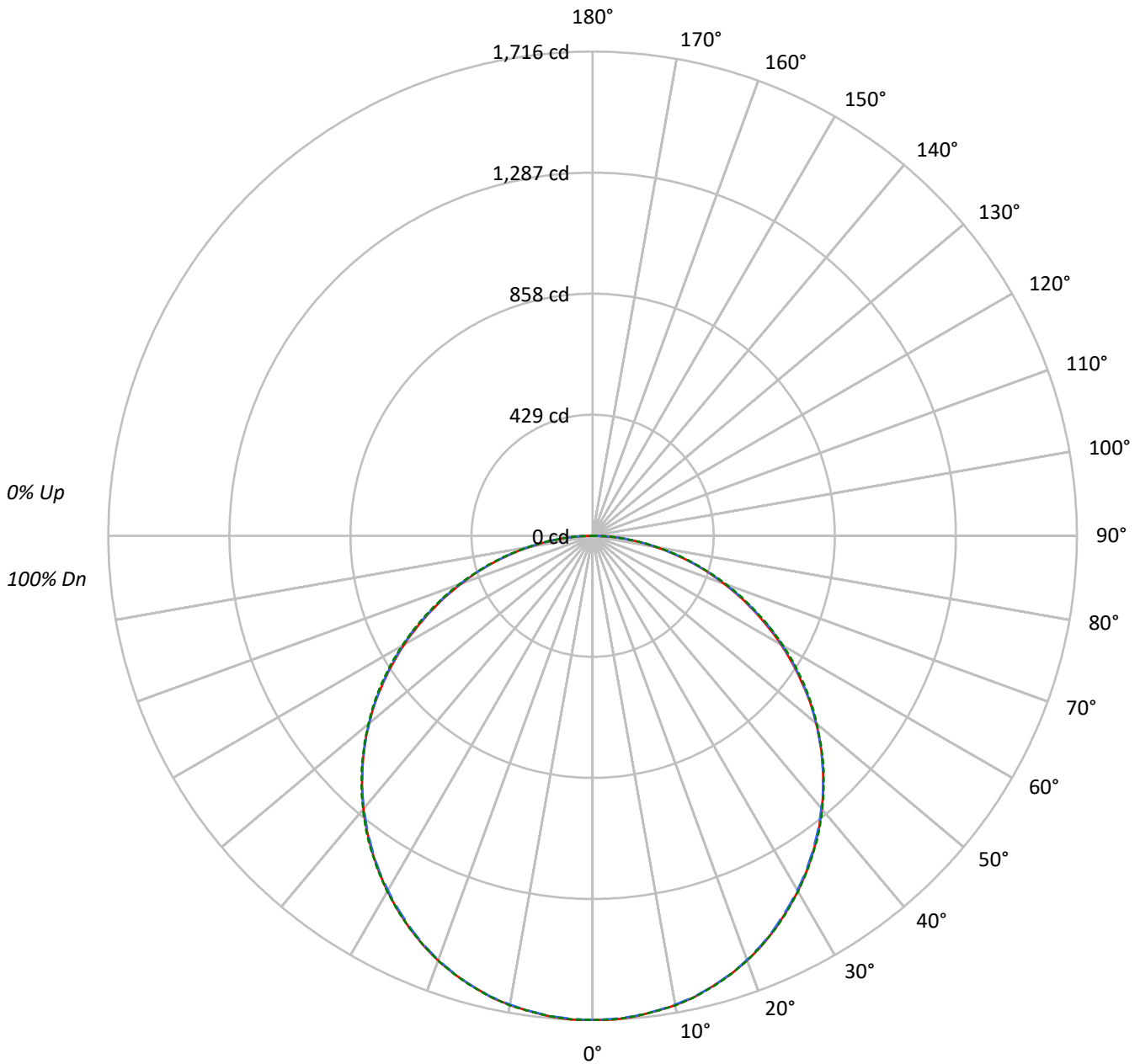
Test Method: LM-79-08  
Report Number: P568368  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2205-645-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CGTX-50HE-L840  
Description: 2X2 5000 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: 5021.0 lumens  
Efficiency: N/A  
Efficacy: 125.5 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): 40  
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									
RC	80									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°	4617	4617	4617
5°	4620	4616	4618
10°	4615	4611	4618
15°	4601	4601	4606
20°	4587	4580	4587
25°	4556	4545	4558
30°	4518	4507	4523
35°	4479	4470	4487
40°	4438	4429	4447
45°	4388	4385	4401
50°	4330	4326	4341
55°	4243	4255	4283
60°	4149	4168	4196
65°	4027	4055	4088
70°	3888	3928	3961
75°	3733	3760	3804
80°	3510	3550	3577
85°	3193	3220	3273



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.4	3.2
10°-20°	466.1	9.3
20°-30°	706.3	14.1
30°-40°	853.0	17.0
40°-50°	890.0	17.7
50°-60°	811.6	16.2
60°-70°	630.9	12.6
70°-80°	382.7	7.6
80°-90°	118.0	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°	1334.8	26.6
0°-40°	2187.9	43.6
0°-60°	3889.5	77.5
0°-90°	5021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5021.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1716	1716	1716	1716	1716	
5°	1710	1708	1709	1708	1710	163
15°	1652	1652	1652	1652	1653	466
25°	1534	1531	1531	1534	1535	707
35°	1363	1362	1361	1366	1366	853
45°	1153	1152	1152	1157	1156	889
55°	904	906	907	910	913	809
65°	632	634	637	639	642	626
75°	359	358	362	365	366	380
85°	103	104	104	107	106	117
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1715.6	1715.6	1715.6	1715.6	1715.6
2.5°	1716.4	1713.9	1713.9	1713.0	1715.6
5°	1710.4	1707.9	1708.7	1707.9	1709.6
7.5°	1700.2	1698.5	1699.3	1698.5	1700.2
10°	1689.1	1687.4	1687.4	1687.4	1689.9
12.5°	1673.7	1672.0	1672.0	1672.0	1673.7
15°	1651.5	1651.5	1651.5	1651.5	1653.2
17.5°	1629.2	1626.7	1627.5	1626.7	1629.2
20°	1601.9	1598.5	1599.3	1599.3	1601.9
22.5°	1570.3	1566.8	1567.7	1567.7	1569.4
25°	1534.4	1530.9	1530.9	1533.5	1535.2
27.5°	1495.0	1492.5	1491.6	1495.9	1496.7
30°	1454.0	1452.3	1450.6	1454.9	1455.7
32.5°	1410.4	1408.7	1407.8	1412.1	1412.1
35°	1363.4	1361.7	1360.8	1366.0	1366.0
37.5°	1314.7	1313.8	1312.1	1317.2	1318.1
40°	1263.4	1261.7	1260.8	1266.0	1266.0
42.5°	1209.5	1207.8	1208.7	1213.0	1212.1
45°	1153.1	1152.3	1152.3	1157.4	1156.5
47.5°	1095.0	1093.3	1094.1	1099.3	1097.6
50°	1034.3	1032.6	1033.4	1038.6	1036.9
52.5°	971.9	970.2	971.9	977.0	977.0
55°	904.4	906.1	906.9	909.5	912.9
57.5°	838.6	839.4	842.8	844.5	847.1
60°	771.0	772.7	774.4	777.9	779.6
62.5°	701.8	704.4	709.5	709.5	711.2
65°	632.5	634.3	636.8	639.4	642.0
67.5°	564.2	565.0	569.3	570.1	572.7
70°	494.1	494.9	499.2	500.1	503.5
72.5°	427.4	426.5	430.0	434.2	434.2
75°	359.0	358.2	361.6	365.0	365.9
77.5°	292.3	291.5	294.0	298.3	298.3
80°	226.5	228.2	229.1	232.5	230.8
82.5°	163.3	164.1	165.0	167.5	165.8
85°	103.4	104.3	104.3	106.8	106.0
87.5°	48.7	47.9	47.9	49.6	48.7
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)