

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: P568344

Luminaire Tested: **22CGTX-50HE-L830**

Issue Date: 9/19/2022

Test Information

Test Method: LM-79-08
Report Number: P568344
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-L830
Description: 2X2 5000 LUMEN, HIGH EFFICACY, LED PANEL WITH SMOOTH WHITE FROSTED ACRYLIC LENS AND 3000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

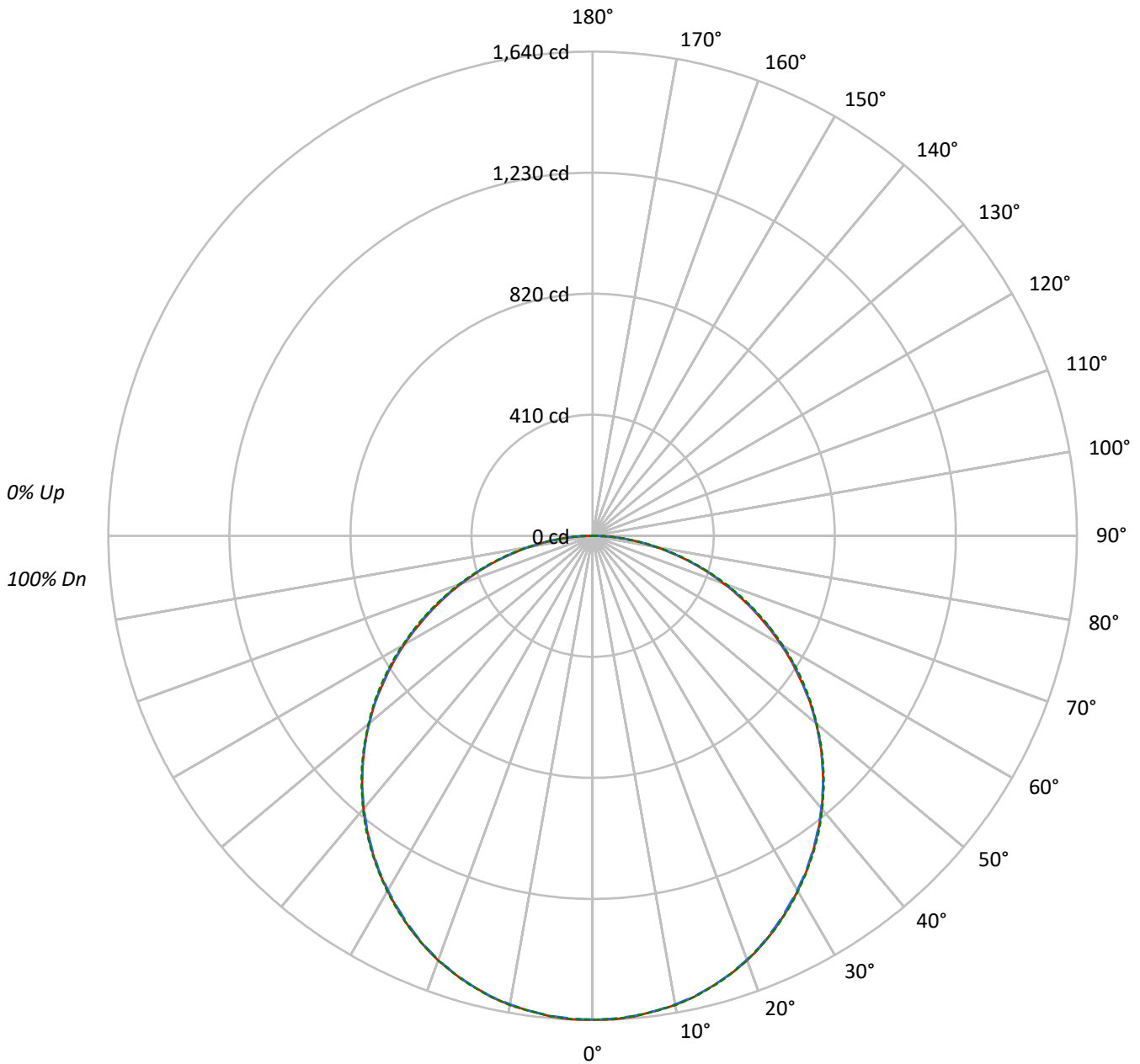
Lumens per Lamp: N/A
Luminaire Lumens: 4796.0 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 40
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: P568344

CATALOG NUMBER: 22CGTX-50HE-L830

Luminous Intensity Polar Plot





TEST NUMBER: P568344

CATALOG NUMBER: 22CGTX-50HE-L830

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°	4410	4410	4410
5°	4413	4409	4411
10°	4409	4404	4411
15°	4395	4395	4399
20°	4382	4375	4382
25°	4352	4342	4354
30°	4315	4305	4321
35°	4278	4270	4286
40°	4239	4230	4248
45°	4192	4188	4204
50°	4136	4132	4146
55°	4053	4064	4091
60°	3964	3981	4007
65°	3847	3873	3904
70°	3713	3751	3784
75°	3565	3591	3634
80°	3353	3391	3417
85°	3051	3075	3125



TEST NUMBER: P568344

CATALOG NUMBER: 22CGTX-50HE-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	3.2
10°-20°	445.2	9.3
20°-30°	674.7	14.1
30°-40°	814.8	17.0
40°-50°	850.1	17.7
50°-60°	775.3	16.2
60°-70°	602.6	12.6
70°-80°	365.5	7.6
80°-90°	112.7	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°	1275.0	26.6
0°-40°	2089.8	43.6
0°-60°	3715.2	77.5
0°-90°	4796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4796.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1639	1639	1639	1639	1639	
5°	1634	1631	1632	1631	1633	155
15°	1578	1578	1578	1578	1579	446
25°	1466	1462	1462	1465	1466	675
35°	1302	1301	1300	1305	1305	815
45°	1101	1101	1101	1106	1105	850
55°	864	866	866	869	872	773
65°	604	606	608	611	613	598
75°	343	342	345	349	350	363
85°	99	100	100	102	101	111
90°	0	0	0	0	0	



TEST NUMBER: P568344

CATALOG NUMBER: 22CGTX-50HE-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1638.7	1638.7	1638.7	1638.7	1638.7
2.5°	1639.5	1637.1	1637.1	1636.2	1638.7
5°	1633.8	1631.3	1632.2	1631.3	1633.0
7.5°	1624.0	1622.4	1623.2	1622.4	1624.0
10°	1613.4	1611.8	1611.8	1611.8	1614.2
12.5°	1598.7	1597.1	1597.1	1597.1	1598.7
15°	1577.5	1577.5	1577.5	1577.5	1579.1
17.5°	1556.2	1553.8	1554.6	1553.8	1556.2
20°	1530.1	1526.8	1527.7	1527.7	1530.1
22.5°	1499.9	1496.6	1497.4	1497.4	1499.1
25°	1465.6	1462.3	1462.3	1464.8	1466.4
27.5°	1428.0	1425.6	1424.8	1428.9	1429.7
30°	1388.8	1387.2	1385.6	1389.7	1390.5
32.5°	1347.2	1345.6	1344.8	1348.8	1348.8
35°	1302.3	1300.7	1299.9	1304.8	1304.8
37.5°	1255.8	1254.9	1253.3	1258.2	1259.0
40°	1206.8	1205.1	1204.3	1209.2	1209.2
42.5°	1155.3	1153.7	1154.5	1158.6	1157.8
45°	1101.4	1100.6	1100.6	1105.5	1104.7
47.5°	1045.9	1044.3	1045.1	1050.0	1048.4
50°	988.0	986.3	987.1	992.0	990.4
52.5°	928.3	926.7	928.3	933.2	933.2
55°	863.8	865.5	866.3	868.7	872.0
57.5°	801.0	801.8	805.1	806.7	809.1
60°	736.5	738.1	739.7	743.0	744.6
62.5°	670.3	672.8	677.7	677.7	679.3
65°	604.2	605.8	608.3	610.7	613.2
67.5°	538.9	539.7	543.8	544.6	547.0
70°	471.9	472.7	476.8	477.6	480.9
72.5°	408.2	407.4	410.7	414.8	414.8
75°	342.9	342.1	345.4	348.6	349.5
77.5°	279.2	278.4	280.9	285.0	285.0
80°	216.4	218.0	218.8	222.1	220.5
82.5°	155.9	156.8	157.6	160.0	158.4
85°	98.8	99.6	99.6	102.1	101.2
87.5°	46.5	45.7	45.7	47.4	46.5
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)