

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1587772

Luminaire Tested: 22CZSP-SB-54HE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-54HE-L830-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

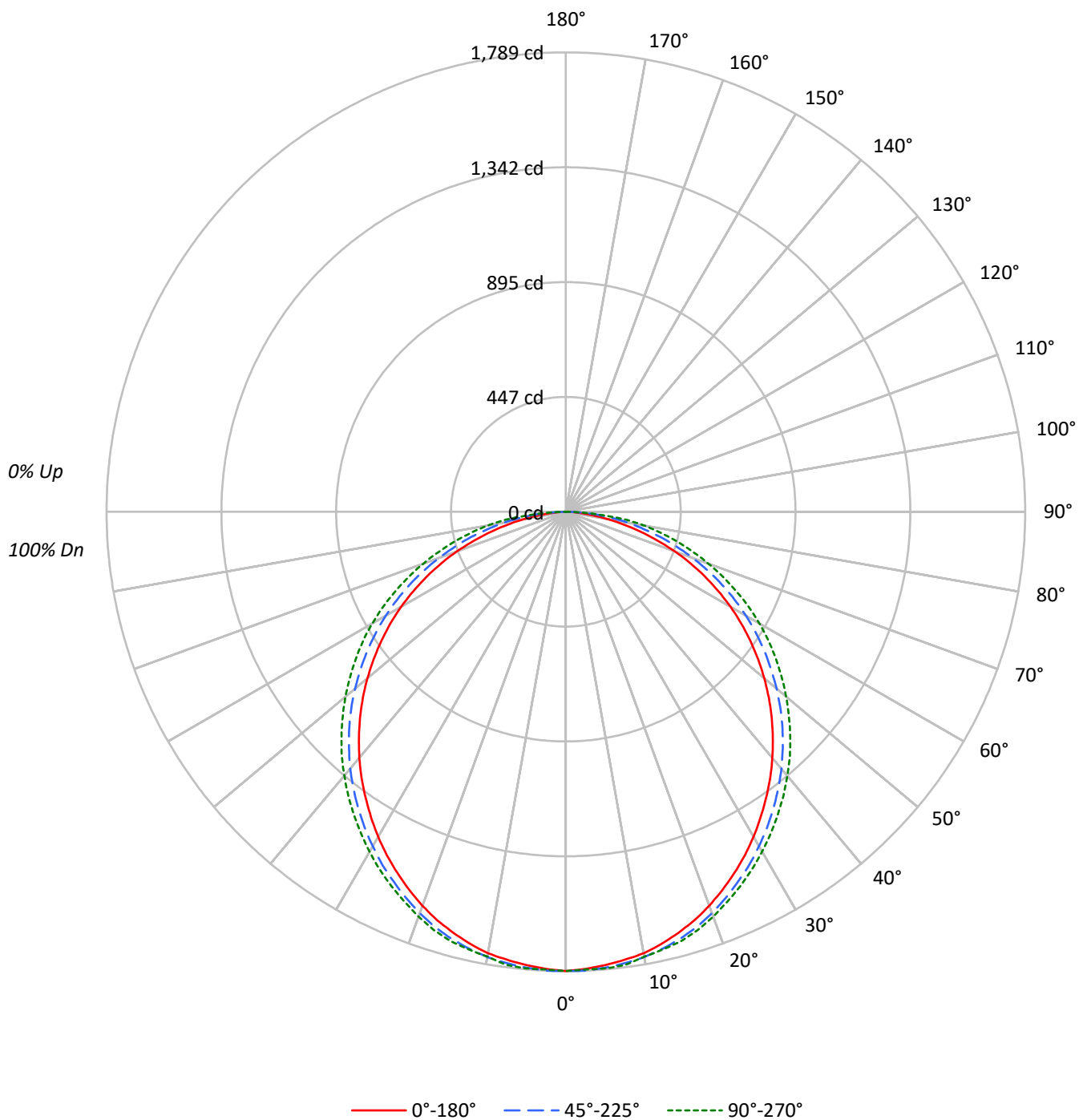
Lumens per Lamp: N/A
Luminaire Lumens: 5203.0 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.1
Input Voltage (V): NR
Input Current (Ain): 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: 24 FT

TEST NUMBER: P1587772

CATALOG NUMBER: 22CZSP-SB-54HE-L830-S

Luminous Intensity Polar Plot



TEST NUMBER: P1587772

CATALOG NUMBER: 22CZSP-SB-54HE-L830-S

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	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	76	72		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	79	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	31	44	37	31		43	36	31		42	35	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°	5601	5601	5601
5°	5569	5601	5612
10°	5552	5598	5595
15°	5501	5581	5613
20°	5442	5543	5591
25°	5364	5488	5557
30°	5285	5439	5528
35°	5198	5387	5502
40°	5115	5339	5486
45°	5021	5284	5472
50°	4913	5218	5458
55°	4791	5151	5451
60°	4641	5075	5454
65°	4429	4967	5424
70°	4140	4817	5411
75°	3669	4631	5430
80°	2988	4400	5590
85°	1929	4060	4825

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5666 cd/sqm

TEST NUMBER: P1587772

CATALOG NUMBER: 22CZSP-SB-54HE-L830-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	3.3
10°-20°	484.7	9.3
20°-30°	730.8	14.0
30°-40°	879.3	16.9
40°-50°	917.2	17.6
50°-60°	840.7	16.2
60°-70°	660.2	12.7
70°-80°	401.8	7.7
80°-90°	118.9	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°	1384.8	26.6
0°-40°	2264.1	43.5
0°-60°	4022.1	77.3
0°-90°	5203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1789	1789	1789	1789	1789	
5°	1772	1783	1782	1780	1785	168
15°	1697	1714	1722	1724	1732	479
25°	1552	1574	1588	1598	1608	715
35°	1360	1381	1409	1429	1439	851
45°	1134	1157	1193	1221	1236	874
55°	878	900	944	982	998	784
65°	598	620	670	715	732	591
75°	303	331	383	429	449	322
85°	54	76	113	126	134	70
90°	0	0	0	0	0	

TEST NUMBER: P1587772

CATALOG NUMBER: 22CZSP-SB-54HE-L830-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1788.6	1788.6	1788.6	1788.6	1788.6
2.5°	1781.9	1790.8	1788.6	1780.8	1784.1
5°	1771.8	1783.0	1781.9	1779.7	1785.3
7.5°	1759.5	1771.8	1772.9	1772.9	1779.7
10°	1746.1	1758.4	1760.6	1757.3	1759.5
12.5°	1723.7	1738.2	1742.7	1742.7	1746.1
15°	1696.8	1713.6	1721.5	1723.7	1731.5
17.5°	1667.7	1685.6	1695.7	1701.3	1708.0
20°	1633.0	1652.1	1663.3	1670.0	1677.8
22.5°	1593.9	1615.1	1627.4	1634.2	1643.1
25°	1552.4	1573.7	1588.3	1598.3	1608.4
27.5°	1508.8	1528.9	1549.1	1561.4	1570.4
30°	1461.8	1483.0	1504.3	1520.0	1528.9
32.5°	1411.4	1433.8	1458.4	1475.2	1485.3
35°	1359.9	1381.2	1409.2	1429.3	1439.4
37.5°	1307.3	1329.7	1358.8	1380.1	1392.4
40°	1251.4	1274.9	1306.2	1329.7	1342.0
42.5°	1193.2	1215.5	1250.2	1277.1	1291.7
45°	1133.8	1157.3	1193.2	1221.1	1235.7
47.5°	1072.3	1094.7	1133.8	1166.3	1178.6
50°	1008.5	1029.7	1071.2	1105.8	1120.4
52.5°	943.6	965.9	1007.4	1044.3	1060.0
55°	877.5	899.9	943.6	981.6	998.4
57.5°	810.4	832.7	877.5	916.7	936.8
60°	741.0	763.3	810.4	850.7	870.8
62.5°	669.3	692.8	741.0	782.4	803.6
65°	597.7	620.1	670.4	715.2	732.0
67.5°	526.1	548.4	597.7	642.5	662.6
70°	452.2	477.9	526.1	573.1	591.0
72.5°	375.0	404.1	452.2	501.4	519.3
75°	303.3	331.3	382.8	428.7	448.8
77.5°	232.8	263.0	311.2	358.2	378.3
80°	165.7	194.8	244.0	288.8	310.0
82.5°	105.2	131.0	180.2	220.5	236.2
85°	53.7	76.1	113.0	126.5	134.3
87.5°	15.7	26.9	40.3	50.4	56.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587772

CATALOG NUMBER: 22CZSP-SB-54HE-L830-S

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.49	19.14	17.85	19.46	19.77	18.22	19.88	18.59	20.19	20.51
	3H	19.25	20.76	19.63	21.08	21.44	20.30	21.80	20.68	22.13	22.49
	4H	19.87	21.29	20.27	21.64	22.01	21.17	22.58	21.56	22.93	23.31
	6H	20.28	21.60	20.69	21.96	22.35	21.91	23.23	22.32	23.59	23.98
	8H	20.38	21.64	20.81	22.03	22.43	22.20	23.46	22.63	23.85	24.25
	12H	20.43	21.64	20.86	22.02	22.45	22.40	23.61	22.83	23.99	24.42
4H	2H	18.25	19.67	18.65	20.02	20.40	18.83	20.24	19.22	20.59	20.97
	3H	20.24	21.44	20.65	21.84	22.24	21.14	22.33	21.55	22.73	23.13
	4H	20.99	22.07	21.42	22.48	22.92	22.16	23.24	22.59	23.65	24.09
	6H	21.52	22.47	21.97	22.91	23.36	23.06	24.01	23.51	24.45	24.91
	8H	21.66	22.55	22.12	22.99	23.45	23.43	24.32	23.89	24.76	25.22
	12H	21.74	22.54	22.22	23.01	23.48	23.68	24.48	24.16	24.96	25.43
8H	4H	21.43	22.32	21.89	22.76	23.23	22.45	23.34	22.91	23.79	24.25
	6H	22.10	22.84	22.59	23.32	23.80	23.51	24.25	24.00	24.74	25.21
	8H	22.31	22.97	22.81	23.48	23.96	23.98	24.65	24.49	25.15	25.64
	12H	22.44	23.03	22.95	23.52	24.08	24.34	24.93	24.84	25.41	25.97
12H	4H	21.51	22.31	21.99	22.79	23.26	22.48	23.28	22.96	23.76	24.22
	6H	22.22	22.89	22.73	23.39	23.88	23.56	24.23	24.07	24.73	25.22
	8H	22.50	23.09	23.00	23.58	24.14	24.10	24.69	24.61	25.18	25.74