

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: P1587773

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-54HE-L830
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

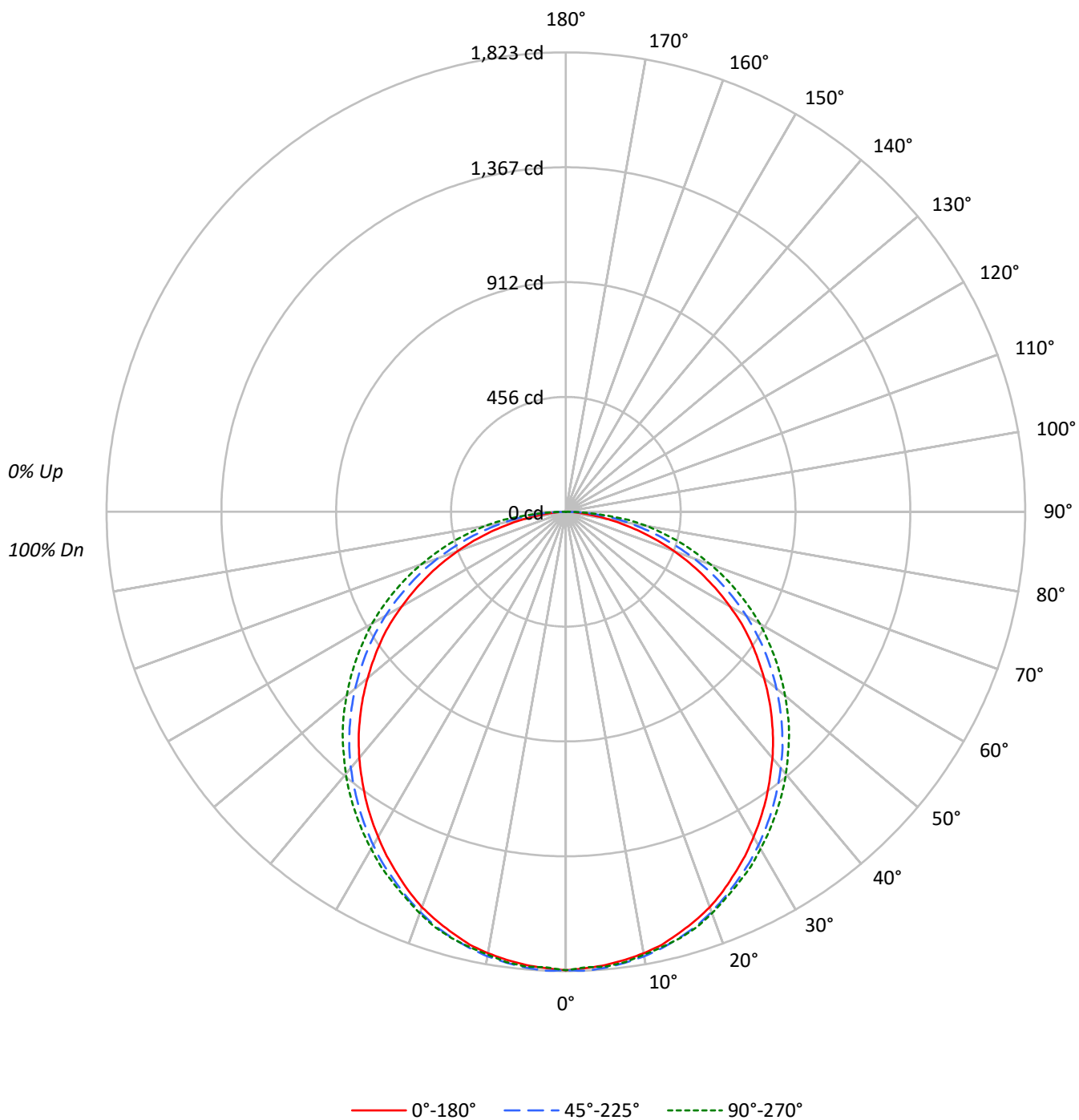
Lumens per Lamp: N/A
Luminaire Lumens: 5310.0 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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: P1587773

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

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	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	93	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	68
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		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	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5697	5697	5697
5°	5677	5709	5695
10°	5657	5696	5675
15°	5614	5672	5680
20°	5565	5633	5651
25°	5475	5572	5611
30°	5388	5526	5587
35°	5301	5473	5568
40°	5214	5426	5554
45°	5116	5375	5549
50°	5004	5316	5535
55°	4890	5258	5534
60°	4709	5180	5567
65°	4489	5080	5571
70°	4188	4939	5588
75°	3725	4758	5684
80°	3060	4560	5897
85°	2019	4279	5328

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6038 cd/sqm

TEST NUMBER: P1587773

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.1	3.2
10°-20°	492.7	9.3
20°-30°	742.6	14.0
30°-40°	894.2	16.8
40°-50°	934.2	17.6
50°-60°	858.3	16.2
60°-70°	675.9	12.7
70°-80°	414.4	7.8
80°-90°	125.6	2.4
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°	1407.3	26.5
0°-40°	2301.5	43.3
0°-60°	4094.1	77.1
0°-90°	5310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1820	1820	1820	1820	1820	
5°	1806	1809	1816	1814	1812	172
15°	1732	1739	1750	1757	1752	489
25°	1585	1595	1613	1630	1624	731
35°	1387	1405	1432	1458	1456	867
45°	1155	1180	1214	1248	1253	891
55°	896	922	963	1005	1014	799
65°	606	637	686	732	752	599
75°	308	344	393	441	470	327
85°	56	83	119	133	148	72
90°	0	0	0	0	0	

TEST NUMBER: P1587773

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1819.5	1819.5	1819.5	1819.5	1819.5
2.5°	1812.8	1817.3	1822.9	1813.9	1809.4
5°	1806.0	1809.4	1816.2	1813.9	1811.7
7.5°	1793.7	1795.9	1804.9	1804.9	1802.7
10°	1779.1	1783.6	1791.4	1790.3	1784.7
12.5°	1760.0	1763.3	1772.3	1772.3	1769.0
15°	1731.9	1738.6	1749.8	1756.6	1752.1
17.5°	1702.6	1709.4	1724.0	1730.7	1728.5
20°	1670.1	1675.7	1690.3	1700.4	1695.9
22.5°	1629.6	1636.3	1653.2	1664.4	1659.9
25°	1584.6	1594.8	1612.7	1629.6	1624.0
27.5°	1539.7	1550.9	1573.4	1590.3	1588.0
30°	1490.2	1504.8	1528.4	1549.8	1545.3
32.5°	1439.7	1456.5	1481.2	1503.7	1502.6
35°	1386.8	1404.8	1431.8	1457.6	1456.5
37.5°	1330.6	1352.0	1380.1	1408.2	1409.3
40°	1275.6	1295.8	1327.3	1357.6	1358.7
42.5°	1217.1	1238.5	1272.2	1303.7	1304.8
45°	1155.3	1180.0	1213.8	1247.5	1253.1
47.5°	1092.4	1118.2	1153.1	1189.0	1195.8
50°	1027.2	1054.2	1091.3	1129.5	1136.2
52.5°	960.9	989.0	1027.2	1065.4	1075.5
55°	895.7	921.6	963.1	1004.7	1013.7
57.5°	827.2	850.8	895.7	939.5	950.8
60°	751.9	781.1	827.2	871.0	889.0
62.5°	678.8	710.3	757.5	801.3	821.5
65°	605.8	637.2	685.6	731.6	751.9
67.5°	531.6	564.2	615.9	659.7	682.2
70°	457.4	490.0	539.5	586.7	610.3
72.5°	383.2	418.1	466.4	514.7	538.3
75°	307.9	343.9	393.3	440.6	469.8
77.5°	237.1	272.0	321.4	369.7	394.5
80°	169.7	204.5	252.9	301.2	327.0
82.5°	107.9	140.5	187.7	228.1	251.7
85°	56.2	83.2	119.1	132.6	148.3
87.5°	16.9	32.6	46.1	51.7	64.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587773

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

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	17.56	19.22	17.92	19.54	19.85	18.30	19.97	18.67	20.28	20.60
	3H	19.32	20.83	19.70	21.16	21.51	20.40	21.91	20.78	22.23	22.59
	4H	19.95	21.37	20.34	21.72	22.09	21.29	22.71	21.68	23.05	23.43
	6H	20.36	21.68	20.77	22.04	22.43	22.05	23.37	22.46	23.74	24.13
	8H	20.46	21.73	20.89	22.12	22.51	22.36	23.63	22.79	24.01	24.41
	12H	20.52	21.73	20.95	22.11	22.54	22.58	23.79	23.01	24.17	24.60
4H	2H	18.33	19.75	18.73	20.10	20.47	18.91	20.33	19.31	20.68	21.05
	3H	20.32	21.52	20.73	21.92	22.32	21.24	22.44	21.65	22.83	23.23
	4H	21.08	22.16	21.51	22.58	23.01	22.27	23.36	22.70	23.77	24.21
	6H	21.61	22.57	22.07	23.00	23.46	23.20	24.15	23.66	24.59	25.05
	8H	21.76	22.65	22.22	23.09	23.56	23.59	24.48	24.04	24.92	25.38
	12H	21.85	22.65	22.32	23.12	23.59	23.86	24.67	24.34	25.14	25.61
8H	4H	21.53	22.42	21.99	22.86	23.33	22.57	23.46	23.03	23.91	24.37
	6H	22.21	22.95	22.70	23.44	23.91	23.66	24.40	24.15	24.89	25.36
	8H	22.43	23.10	22.93	23.60	24.08	24.14	24.81	24.65	25.32	25.80
	12H	22.57	23.17	23.08	23.66	24.21	24.52	25.11	25.02	25.60	26.16
12H	4H	21.61	22.42	22.09	22.89	23.36	22.60	23.40	23.08	23.88	24.35
	6H	22.33	23.00	22.84	23.51	23.99	23.71	24.38	24.22	24.88	25.37
	8H	22.63	23.22	23.13	23.71	24.27	24.26	24.85	24.77	25.34	25.90