

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: P1587784

Luminaire Tested: 22CZSP-SB-54HE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587784
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-L935-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

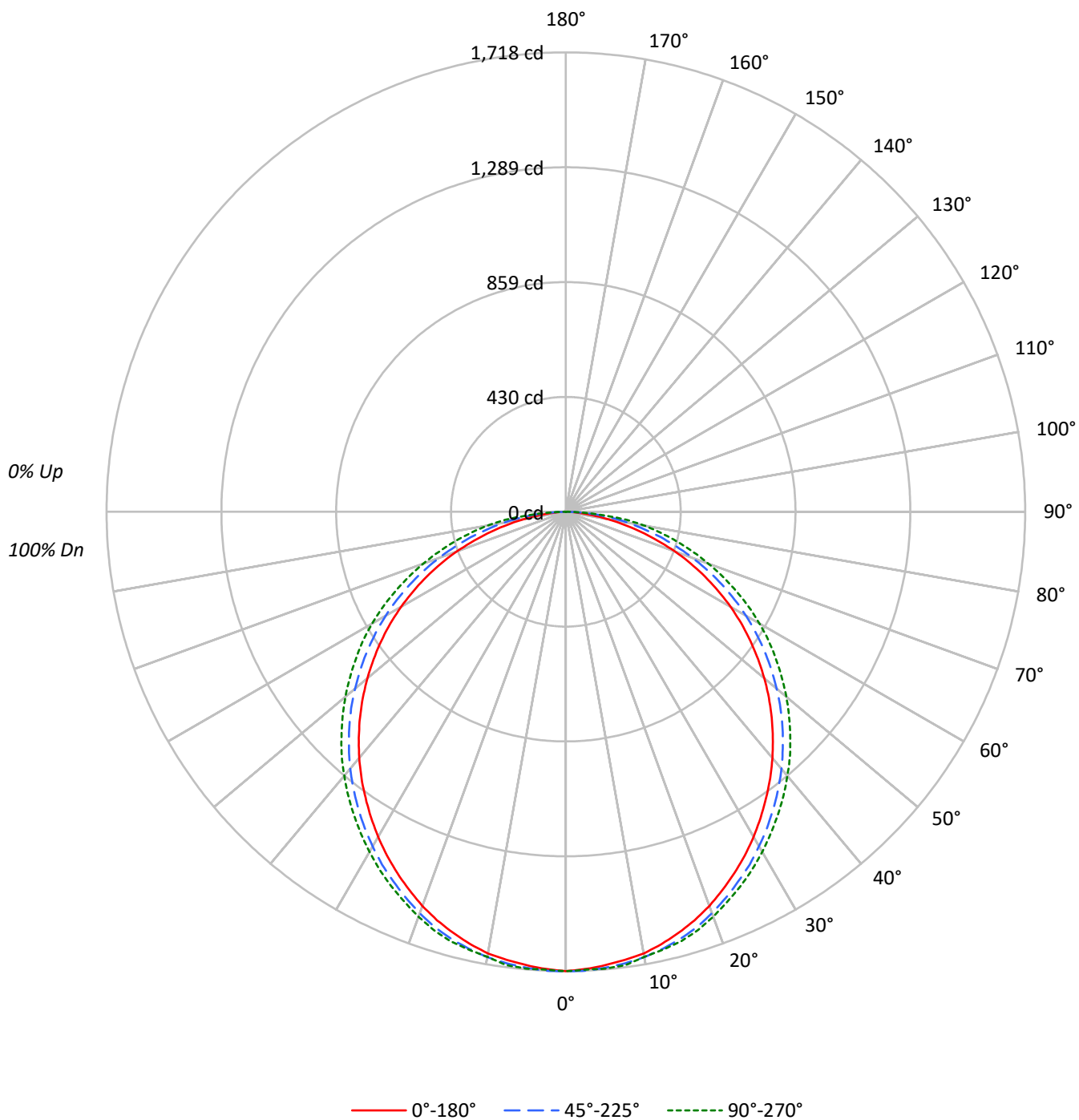
Lumens per Lamp: N/A
Luminaire Lumens: 4998.0 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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: P1587784

CATALOG NUMBER: 22CZSP-SB-54HE-L935-S

Luminous Intensity Polar Plot



TEST NUMBER: P1587784

CATALOG NUMBER: 22CZSP-SB-54HE-L935-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°	5380	5380	5380
5°	5350	5380	5390
10°	5333	5378	5374
15°	5284	5361	5392
20°	5227	5324	5371
25°	5152	5271	5338
30°	5077	5225	5310
35°	4994	5175	5286
40°	4914	5129	5269
45°	4823	5075	5256
50°	4719	5012	5243
55°	4602	4948	5236
60°	4458	4875	5239
65°	4254	4772	5210
70°	3977	4626	5198
75°	3526	4449	5216
80°	2869	4227	5370
85°	1854	3902	4635

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5443 cd/sqm

TEST NUMBER: P1587784

CATALOG NUMBER: 22CZSP-SB-54HE-L935-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.6	3.3
10°-20°	465.6	9.3
20°-30°	702.0	14.0
30°-40°	844.7	16.9
40°-50°	881.1	17.6
50°-60°	807.6	16.2
60°-70°	634.2	12.7
70°-80°	386.0	7.7
80°-90°	114.2	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°	1330.2	26.6
0°-40°	2174.9	43.5
0°-60°	3863.6	77.3
0°-90°	4998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1718	1718	1718	1718	1718	
5°	1702	1713	1712	1710	1715	162
15°	1630	1646	1654	1656	1663	460
25°	1491	1512	1526	1535	1545	687
35°	1306	1327	1354	1373	1383	818
45°	1089	1112	1146	1173	1187	840
55°	843	864	906	943	959	753
65°	574	596	644	687	703	568
75°	291	318	368	412	431	309
85°	52	73	109	122	129	67
90°	0	0	0	0	0	

TEST NUMBER: P1587784

CATALOG NUMBER: 22CZSP-SB-54HE-L935-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1718.1	1718.1	1718.1	1718.1	1718.1
2.5°	1711.7	1720.3	1718.1	1710.6	1713.8
5°	1702.0	1712.8	1711.7	1709.5	1714.9
7.5°	1690.2	1702.0	1703.1	1703.1	1709.5
10°	1677.3	1689.1	1691.3	1688.0	1690.2
12.5°	1655.8	1669.8	1674.1	1674.1	1677.3
15°	1630.0	1646.1	1653.6	1655.8	1663.3
17.5°	1602.0	1619.2	1628.9	1634.3	1640.7
20°	1568.7	1587.0	1597.7	1604.2	1611.7
22.5°	1531.1	1551.5	1563.3	1569.8	1578.4
25°	1491.3	1511.7	1525.7	1535.4	1545.0
27.5°	1449.3	1468.7	1488.1	1499.9	1508.5
30°	1404.2	1424.6	1445.0	1460.1	1468.7
32.5°	1355.8	1377.3	1401.0	1417.1	1426.8
35°	1306.3	1326.8	1353.7	1373.0	1382.7
37.5°	1255.8	1277.3	1305.3	1325.7	1337.5
40°	1202.1	1224.6	1254.7	1277.3	1289.1
42.5°	1146.1	1167.6	1201.0	1226.8	1240.8
45°	1089.2	1111.7	1146.1	1173.0	1187.0
47.5°	1030.0	1051.5	1089.2	1120.3	1132.2
50°	968.7	989.2	1028.9	1062.3	1076.3
52.5°	906.4	927.9	967.7	1003.1	1018.2
55°	842.9	864.4	906.4	942.9	959.1
57.5°	778.4	799.9	842.9	880.6	899.9
60°	711.8	733.3	778.4	817.1	836.5
62.5°	643.0	665.5	711.8	751.6	772.0
65°	574.1	595.7	644.0	687.0	703.2
67.5°	505.3	526.8	574.1	617.2	636.5
70°	434.4	459.1	505.3	550.5	567.7
72.5°	360.2	388.1	434.4	481.7	498.9
75°	291.4	318.3	367.7	411.8	431.1
77.5°	223.6	252.7	298.9	344.1	363.4
80°	159.1	187.1	234.4	277.4	297.8
82.5°	101.1	125.8	173.1	211.8	226.9
85°	51.6	73.1	108.6	121.5	129.0
87.5°	15.1	25.8	38.7	48.4	53.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587784

CATALOG NUMBER: 22CZSP-SB-54HE-L935-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	17.35	19.01	17.71	19.32	19.63	18.08	19.74	18.45	20.06	20.37
	3H	19.11	20.62	19.49	20.94	21.30	20.16	21.67	20.54	21.99	22.35
	4H	19.73	21.15	20.13	21.50	21.88	21.03	22.45	21.42	22.79	23.17
	6H	20.14	21.46	20.55	21.82	22.21	21.77	23.09	22.18	23.45	23.84
	8H	20.25	21.51	20.67	21.89	22.29	22.07	23.33	22.49	23.71	24.11
	12H	20.29	21.50	20.72	21.88	22.31	22.26	23.47	22.69	23.85	24.28
4H	2H	18.11	19.53	18.51	19.88	20.26	18.69	20.11	19.08	20.45	20.83
	3H	20.11	21.30	20.51	21.70	22.10	21.00	22.19	21.41	22.59	22.99
	4H	20.85	21.93	21.28	22.34	22.78	22.02	23.10	22.45	23.51	23.95
	6H	21.38	22.33	21.83	22.77	23.22	22.92	23.87	23.38	24.31	24.77
	8H	21.52	22.41	21.98	22.85	23.31	23.29	24.18	23.75	24.62	25.08
	12H	21.60	22.40	22.08	22.87	23.34	23.54	24.34	24.02	24.82	25.29
8H	4H	21.29	22.18	21.75	22.62	23.09	22.31	23.20	22.77	23.65	24.11
	6H	21.96	22.70	22.45	23.19	23.66	23.37	24.11	23.86	24.60	25.07
	8H	22.17	22.83	22.67	23.34	23.82	23.84	24.51	24.35	25.02	25.50
	12H	22.30	22.89	22.81	23.38	23.94	24.20	24.79	24.70	25.28	25.83
12H	4H	21.37	22.18	21.85	22.65	23.12	22.34	23.14	22.82	23.62	24.08
	6H	22.08	22.75	22.59	23.25	23.74	23.42	24.09	23.93	24.60	25.08
	8H	22.36	22.95	22.86	23.44	24.00	23.96	24.55	24.47	25.04	25.60