

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: P1587800

Luminaire Tested: 22CZSP-SB-57HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587800
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-57HE-L850-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 5700 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

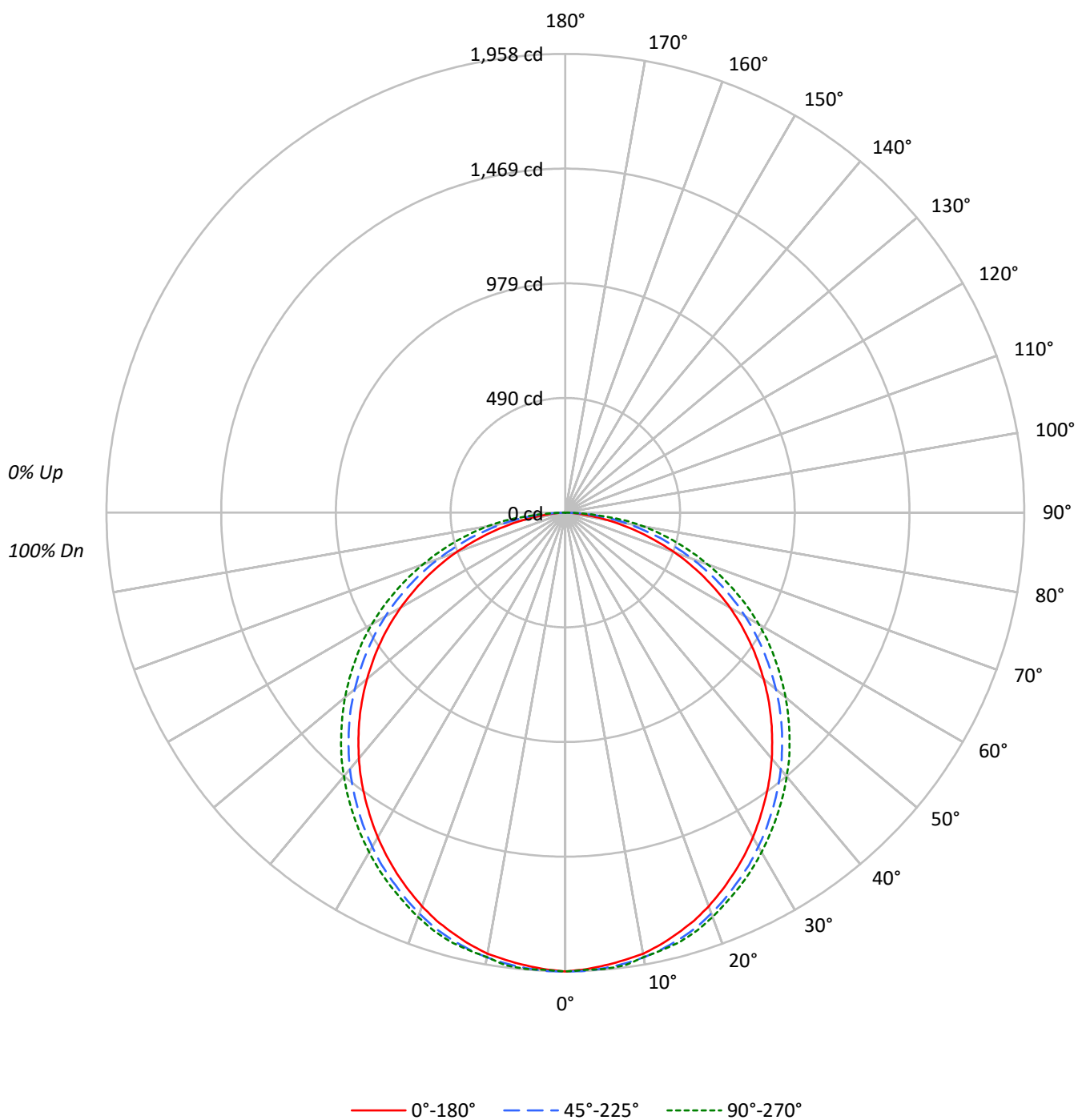
Lumens per Lamp: N/A
Luminaire Lumens: 5697.0 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 38.9
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

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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	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°	6132	6132	6132
5°	6098	6133	6144
10°	6079	6130	6126
15°	6023	6110	6146
20°	5958	6069	6122
25°	5873	6009	6085
30°	5787	5955	6053
35°	5692	5898	6025
40°	5601	5846	6006
45°	5498	5785	5992
50°	5379	5714	5976
55°	5245	5640	5968
60°	5081	5557	5971
65°	4849	5439	5939
70°	4533	5274	5924
75°	4018	5070	5945
80°	3271	4818	6122
85°	2113	4448	5285

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6204 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	3.3
10°-20°	530.7	9.3
20°-30°	800.2	14.0
30°-40°	962.8	16.9
40°-50°	1004.3	17.6
50°-60°	920.6	16.2
60°-70°	722.9	12.7
70°-80°	440.0	7.7
80°-90°	130.1	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°	1516.3	26.6
0°-40°	2479.1	43.5
0°-60°	4404.0	77.3
0°-90°	5697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1958	1958	1958	1958	1958	
5°	1940	1952	1951	1949	1955	184
15°	1858	1876	1885	1887	1896	524
25°	1700	1723	1739	1750	1761	783
35°	1489	1512	1543	1565	1576	932
45°	1242	1267	1306	1337	1353	957
55°	961	985	1033	1075	1093	859
65°	654	679	734	783	802	647
75°	332	363	419	469	491	352
85°	59	83	124	138	147	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1958.4	1958.4	1958.4	1958.4	1958.4
2.5°	1951.1	1960.9	1958.4	1949.9	1953.5
5°	1940.0	1952.3	1951.1	1948.6	1954.8
7.5°	1926.6	1940.0	1941.3	1941.3	1948.6
10°	1911.9	1925.3	1927.8	1924.1	1926.6
12.5°	1887.3	1903.3	1908.2	1908.2	1911.9
15°	1857.9	1876.3	1884.9	1887.3	1895.9
17.5°	1826.1	1845.7	1856.7	1862.8	1870.2
20°	1788.1	1808.9	1821.2	1828.5	1837.1
22.5°	1745.2	1768.5	1782.0	1789.3	1799.1
25°	1699.8	1723.1	1739.1	1750.1	1761.1
27.5°	1652.0	1674.1	1696.2	1709.6	1719.4
30°	1600.6	1623.9	1647.1	1664.3	1674.1
32.5°	1545.4	1569.9	1596.9	1615.3	1626.3
35°	1489.0	1512.3	1543.0	1565.0	1576.1
37.5°	1431.4	1456.0	1487.8	1511.1	1524.6
40°	1370.2	1395.9	1430.2	1456.0	1469.4
42.5°	1306.4	1330.9	1368.9	1398.4	1414.3
45°	1241.5	1267.2	1306.4	1337.1	1353.0
47.5°	1174.1	1198.6	1241.5	1277.0	1290.5
50°	1104.2	1127.5	1172.9	1210.8	1226.8
52.5°	1033.1	1057.7	1103.0	1143.4	1160.6
55°	960.8	985.3	1033.1	1074.8	1093.2
57.5°	887.3	911.8	960.8	1003.7	1025.8
60°	811.3	835.8	887.3	931.4	953.5
62.5°	732.9	758.6	811.3	856.7	879.9
65°	654.4	679.0	734.1	783.1	801.5
67.5°	576.0	600.5	654.4	703.5	725.5
70°	495.1	523.3	576.0	627.5	647.1
72.5°	410.6	442.4	495.1	549.0	568.7
75°	332.1	362.8	419.1	469.4	491.4
77.5°	254.9	288.0	340.7	392.2	414.2
80°	181.4	213.2	267.2	316.2	339.5
82.5°	115.2	143.4	197.3	241.4	258.6
85°	58.8	83.3	123.8	138.5	147.1
87.5°	17.2	29.4	44.1	55.1	61.3
90°	0.0	0.0	0.0	0.0	0.0

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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	17.80	19.46	18.17	19.77	20.09	18.54	20.20	18.90	20.51	20.82
	3H	19.57	21.07	19.95	21.40	21.76	20.61	22.12	20.99	22.45	22.81
	4H	20.19	21.61	20.59	21.96	22.33	21.48	22.90	21.88	23.25	23.62
	6H	20.60	21.91	21.01	22.28	22.67	22.22	23.54	22.64	23.91	24.30
	8H	20.70	21.96	21.12	22.35	22.75	22.52	23.78	22.94	24.17	24.57
	12H	20.75	21.96	21.18	22.34	22.77	22.71	23.92	23.14	24.30	24.73
4H	2H	18.57	19.99	18.97	20.34	20.71	19.14	20.56	19.54	20.91	21.28
	3H	20.56	21.76	20.97	22.15	22.55	21.45	22.65	21.86	23.05	23.44
	4H	21.30	22.39	21.73	22.80	23.23	22.47	23.56	22.90	23.97	24.40
	6H	21.83	22.78	22.28	23.22	23.67	23.38	24.33	23.83	24.77	25.22
	8H	21.97	22.86	22.43	23.30	23.77	23.74	24.63	24.20	25.08	25.54
	12H	22.05	22.85	22.53	23.33	23.80	24.00	24.80	24.48	25.27	25.74
8H	4H	21.75	22.64	22.21	23.08	23.54	22.77	23.66	23.23	24.10	24.56
	6H	22.41	23.15	22.90	23.64	24.11	23.83	24.57	24.32	25.06	25.53
	8H	22.62	23.29	23.13	23.79	24.28	24.30	24.96	24.81	25.47	25.95
	12H	22.76	23.35	23.26	23.84	24.40	24.65	25.24	25.16	25.73	26.29
12H	4H	21.83	22.63	22.31	23.10	23.57	22.80	23.60	23.27	24.07	24.54
	6H	22.53	23.20	23.04	23.71	24.19	23.88	24.55	24.38	25.05	25.53
	8H	22.81	23.40	23.32	23.89	24.45	24.42	25.00	24.92	25.49	26.05