

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: P1585799

Luminaire Tested: 14CZSP-SB-54VHE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-54VHE-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 5200 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

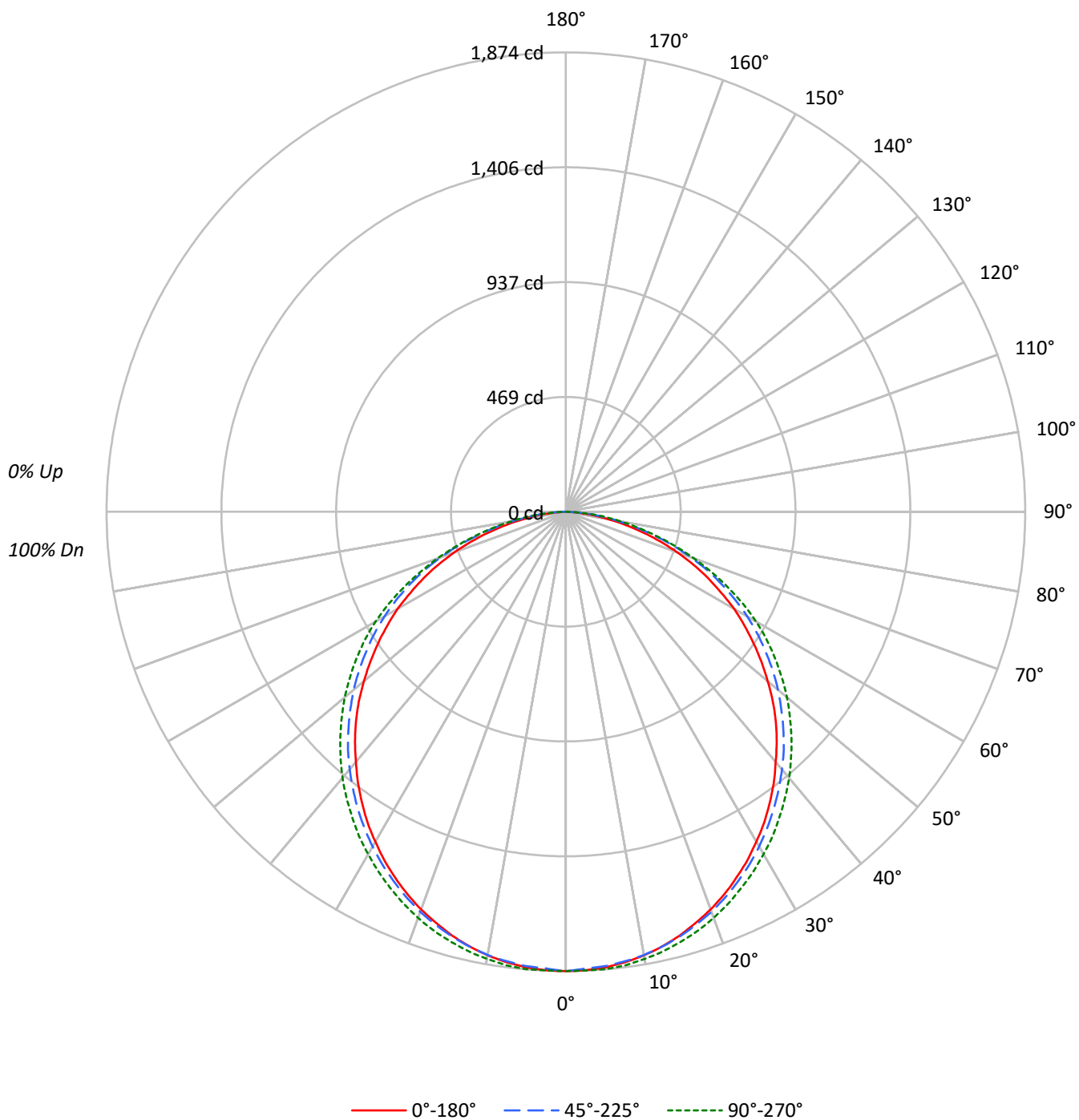
Lumens per Lamp: N/A
Luminaire Lumens: 5414.0 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6315	6315	6315
5°	6310	6294	6336
10°	6287	6281	6337
15°	6246	6260	6333
20°	6191	6228	6323
25°	6124	6182	6298
30°	6048	6135	6275
35°	5964	6086	6253
40°	5859	6034	6236
45°	5775	5980	6203
50°	5637	5924	6173
55°	5493	5846	6126
60°	5345	5760	6044
65°	5105	5608	5814
70°	4763	5356	5486
75°	4244	4854	4995
80°	3466	4207	4418
85°	2293	3348	3588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6203 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.5	3.3
10°-20°	508.4	9.4
20°-30°	769.8	14.2
30°-40°	929.1	17.2
40°-50°	970.3	17.9
50°-60°	887.6	16.4
60°-70°	686.2	12.7
70°-80°	388.5	7.2
80°-90°	96.5	1.8
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°	1455.7	26.9
0°-40°	2384.8	44.0
0°-60°	4242.8	78.4
0°-90°	5414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1874	1874	1874	1874	1874	
5°	1865	1879	1861	1862	1873	177
15°	1791	1806	1794	1803	1816	505
25°	1647	1668	1663	1678	1694	759
35°	1450	1470	1479	1504	1520	907
45°	1212	1235	1255	1287	1302	933
55°	935	963	995	1026	1043	836
65°	640	667	703	724	729	632
75°	326	354	373	382	384	346
85°	59	69	87	90	93	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1874.0	1874.0	1874.0	1874.0	1874.0
2.5°	1871.7	1884.9	1864.7	1868.6	1872.5
5°	1865.4	1878.7	1860.8	1862.3	1873.2
7.5°	1853.7	1868.6	1849.8	1853.0	1866.2
10°	1837.4	1852.2	1835.8	1838.9	1852.2
12.5°	1816.3	1831.1	1817.1	1821.8	1836.6
15°	1790.6	1806.2	1794.5	1803.0	1815.5
17.5°	1759.4	1778.9	1766.4	1779.7	1792.1
20°	1726.6	1746.1	1736.8	1748.5	1763.3
22.5°	1689.2	1708.7	1701.7	1714.1	1730.5
25°	1647.1	1668.1	1662.7	1678.3	1693.9
27.5°	1603.4	1623.7	1622.1	1639.3	1655.7
30°	1554.3	1576.1	1576.9	1597.2	1612.8
32.5°	1505.1	1524.6	1529.3	1551.9	1569.9
35°	1449.8	1470.0	1479.4	1504.4	1520.0
37.5°	1393.6	1416.2	1426.4	1453.7	1470.0
40°	1332.0	1357.7	1371.8	1400.6	1417.8
42.5°	1273.5	1296.9	1315.6	1344.5	1360.1
45°	1211.9	1235.3	1254.8	1286.8	1301.6
47.5°	1145.6	1171.4	1192.4	1223.6	1240.0
50°	1075.4	1103.5	1130.0	1160.4	1177.6
52.5°	1006.0	1033.3	1063.7	1093.4	1110.5
55°	935.1	963.1	995.1	1026.3	1042.7
57.5°	863.3	891.4	926.5	954.6	971.7
60°	793.1	818.9	854.7	882.8	896.8
62.5°	713.6	743.2	779.9	807.9	815.7
65°	640.3	666.8	703.4	724.5	729.2
67.5°	562.3	588.8	625.5	637.1	644.2
70°	483.5	511.6	543.6	551.4	556.8
72.5°	404.0	432.8	457.8	465.6	470.3
75°	326.0	354.1	372.8	382.1	383.7
77.5°	250.3	276.1	293.2	304.1	304.1
80°	178.6	198.1	216.8	228.5	227.7
82.5°	113.9	128.7	148.2	156.8	162.2
85°	59.3	68.6	86.6	90.5	92.8
87.5°	18.7	24.2	31.2	25.7	25.0
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	18.08	19.73	18.45	20.05	20.36	18.62	20.27	18.99	20.59	20.90
	3H	19.86	21.35	20.23	21.68	22.04	20.48	21.98	20.86	22.30	22.66
	4H	20.48	21.89	20.88	22.23	22.61	21.16	22.56	21.55	22.91	23.29
	6H	20.88	22.19	21.29	22.55	22.94	21.64	22.95	22.05	23.31	23.70
	8H	20.99	22.23	21.41	22.62	23.02	21.80	23.05	22.22	23.43	23.83
	12H	21.03	22.23	21.46	22.61	23.04	21.90	23.09	22.32	23.47	23.90
4H	2H	18.82	20.23	19.22	20.58	20.95	19.24	20.65	19.64	21.00	21.37
	3H	20.81	22.00	21.22	22.39	22.79	21.32	22.50	21.73	22.90	23.30
	4H	21.56	22.63	21.99	23.05	23.48	22.12	23.19	22.55	23.61	24.04
	6H	22.08	23.02	22.54	23.46	23.91	22.74	23.67	23.19	24.11	24.57
	8H	22.22	23.09	22.68	23.53	24.00	22.94	23.82	23.40	24.26	24.72
	12H	22.29	23.08	22.77	23.56	24.02	23.08	23.87	23.56	24.34	24.81
8H	4H	21.92	22.79	22.38	23.24	23.70	22.41	23.29	22.87	23.73	24.19
	6H	22.55	23.28	23.04	23.77	24.24	23.14	23.87	23.64	24.36	24.83
	8H	22.75	23.40	23.25	23.90	24.39	23.42	24.07	23.93	24.58	25.06
	12H	22.87	23.45	23.38	23.94	24.50	23.62	24.20	24.13	24.69	25.25
12H	4H	21.96	22.75	22.44	23.22	23.69	22.44	23.22	22.92	23.70	24.17
	6H	22.62	23.27	23.12	23.77	24.26	23.19	23.84	23.69	24.35	24.83
	8H	22.86	23.44	23.37	23.93	24.49	23.51	24.09	24.02	24.58	25.14