

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: P1585811

Luminaire Tested: 14CZSP-SB-54VHE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585811
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-L950
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 5200 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

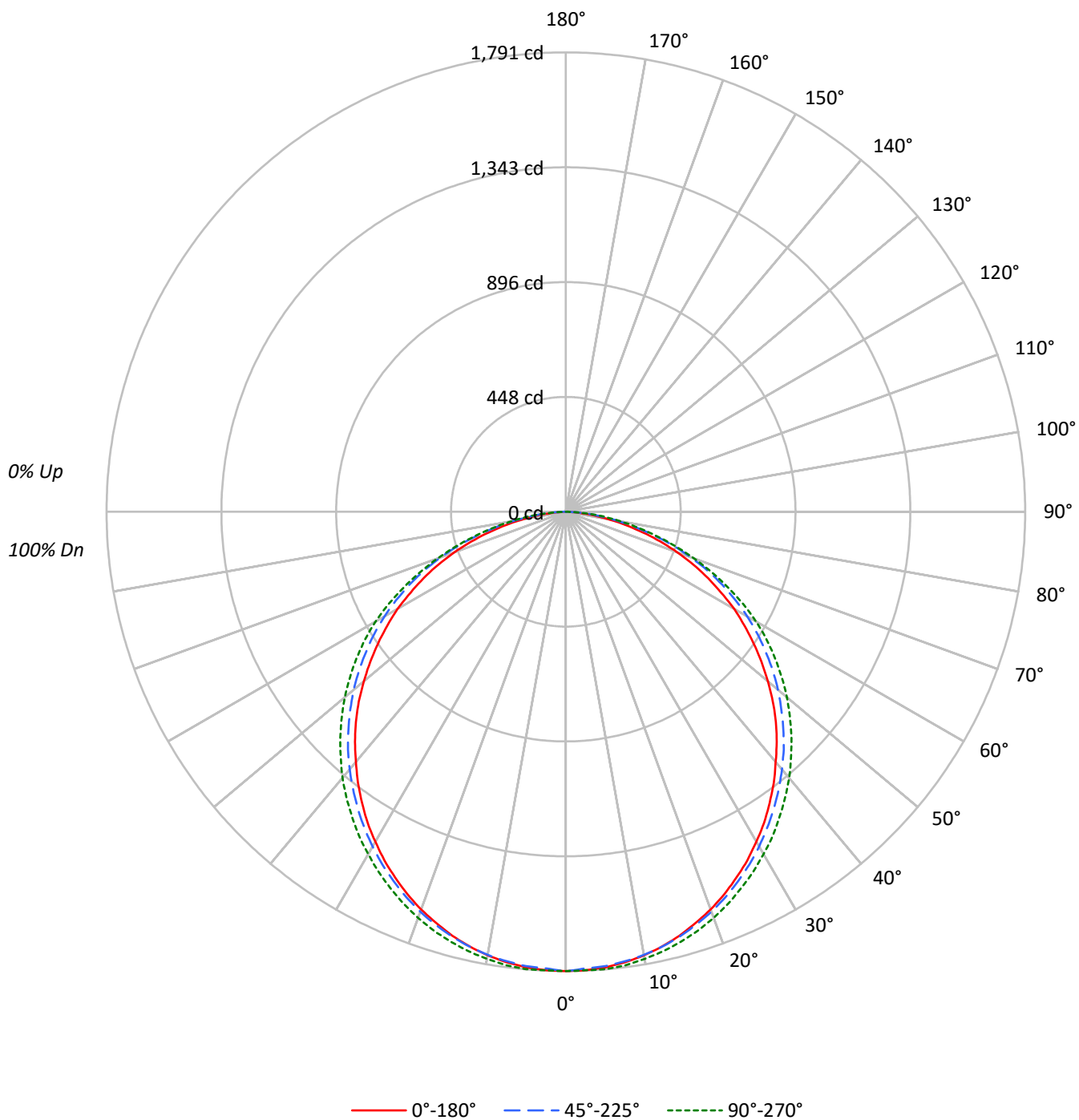
Lumens per Lamp: N/A
Luminaire Lumens: 5174.0 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	6035	6035	6035
5°	6030	6015	6055
10°	6008	6003	6057
15°	5969	5982	6052
20°	5917	5952	6042
25°	5852	5908	6019
30°	5779	5864	5997
35°	5699	5816	5975
40°	5600	5767	5960
45°	5519	5715	5928
50°	5388	5661	5899
55°	5250	5587	5854
60°	5108	5505	5776
65°	4879	5360	5556
70°	4553	5118	5242
75°	4055	4639	4774
80°	3312	4021	4222
85°	2188	3197	3429

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5928 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.6	3.3
10°-20°	485.9	9.4
20°-30°	735.6	14.2
30°-40°	888.0	17.2
40°-50°	927.3	17.9
50°-60°	848.3	16.4
60°-70°	655.8	12.7
70°-80°	371.3	7.2
80°-90°	92.2	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°	1391.1	26.9
0°-40°	2279.1	44.0
0°-60°	4054.7	78.4
0°-90°	5174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5174.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1791	1791	1791	1791	1791	
5°	1783	1795	1778	1780	1790	169
15°	1711	1726	1715	1723	1735	483
25°	1574	1594	1589	1604	1619	725
35°	1386	1405	1414	1438	1453	867
45°	1158	1180	1199	1230	1244	892
55°	894	920	951	981	996	799
65°	612	637	672	692	697	604
75°	312	338	356	365	367	330
85°	57	66	83	86	89	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1790.9	1790.9	1790.9	1790.9	1790.9
2.5°	1788.7	1801.4	1782.0	1785.7	1789.4
5°	1782.7	1795.4	1778.3	1779.8	1790.2
7.5°	1771.6	1785.7	1767.8	1770.8	1783.5
10°	1755.9	1770.1	1754.4	1757.4	1770.1
12.5°	1735.8	1749.9	1736.5	1741.0	1755.2
15°	1711.2	1726.1	1714.9	1723.1	1735.0
17.5°	1681.4	1700.0	1688.1	1700.8	1712.7
20°	1650.1	1668.7	1659.8	1670.9	1685.1
22.5°	1614.3	1632.9	1626.2	1638.2	1653.8
25°	1574.1	1594.2	1589.0	1603.9	1618.8
27.5°	1532.3	1551.7	1550.2	1566.6	1582.3
30°	1485.4	1506.2	1507.0	1526.4	1541.3
32.5°	1438.4	1457.0	1461.5	1483.1	1500.3
35°	1385.5	1404.9	1413.8	1437.7	1452.6
37.5°	1331.8	1353.5	1363.1	1389.2	1404.9
40°	1273.0	1297.6	1311.0	1338.5	1354.9
42.5°	1217.1	1239.4	1257.3	1284.9	1299.8
45°	1158.2	1180.5	1199.2	1229.7	1243.9
47.5°	1094.8	1119.4	1139.6	1169.4	1185.0
50°	1027.8	1054.6	1079.9	1109.0	1125.4
52.5°	961.4	987.5	1016.6	1044.9	1061.3
55°	893.6	920.4	951.0	980.8	996.5
57.5°	825.0	851.9	885.4	912.2	928.6
60°	758.0	782.6	816.8	843.7	857.1
62.5°	681.9	710.3	745.3	772.1	779.6
65°	611.9	637.2	672.3	692.4	696.8
67.5°	537.4	562.7	597.7	608.9	615.6
70°	462.1	488.9	519.5	526.9	532.1
72.5°	386.1	413.6	437.5	444.9	449.4
75°	311.5	338.4	356.3	365.2	366.7
77.5°	239.2	263.8	280.2	290.7	290.7
80°	170.7	189.3	207.2	218.4	217.6
82.5°	108.8	123.0	141.6	149.8	155.0
85°	56.6	65.6	82.7	86.5	88.7
87.5°	17.9	23.1	29.8	24.6	23.8
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	17.93	19.58	18.29	19.89	20.20	18.47	20.12	18.83	20.43	20.74
	3H	19.70	21.19	20.07	21.52	21.88	20.33	21.82	20.70	22.15	22.51
	4H	20.32	21.73	20.72	22.08	22.45	21.00	22.41	21.40	22.75	23.13
	6H	20.73	22.03	21.14	22.40	22.79	21.48	22.79	21.89	23.15	23.54
	8H	20.83	22.08	21.25	22.46	22.86	21.64	22.89	22.06	23.28	23.67
	12H	20.88	22.07	21.30	22.45	22.88	21.74	22.93	22.17	23.31	23.74
4H	2H	18.66	20.07	19.06	20.42	20.79	19.09	20.49	19.48	20.84	21.22
	3H	20.66	21.84	21.07	22.24	22.63	21.16	22.35	21.57	22.74	23.14
	4H	21.41	22.48	21.84	22.89	23.32	21.97	23.03	22.40	23.45	23.88
	6H	21.92	22.86	22.38	23.30	23.75	22.58	23.52	23.03	23.96	24.41
	8H	22.06	22.94	22.52	23.38	23.84	22.78	23.66	23.24	24.10	24.56
	12H	22.14	22.92	22.62	23.40	23.87	22.92	23.71	23.40	24.18	24.65
8H	4H	21.76	22.64	22.22	23.08	23.54	22.26	23.13	22.71	23.57	24.04
	6H	22.39	23.12	22.89	23.61	24.08	22.99	23.72	23.48	24.20	24.68
	8H	22.59	23.24	23.10	23.75	24.23	23.26	23.91	23.77	24.42	24.90
	12H	22.71	23.29	23.22	23.78	24.34	23.47	24.04	23.97	24.53	25.09
12H	4H	21.80	22.59	22.28	23.06	23.53	22.28	23.07	22.76	23.54	24.01
	6H	22.46	23.11	22.97	23.62	24.10	23.03	23.68	23.54	24.19	24.67
	8H	22.71	23.28	23.21	23.77	24.33	23.36	23.93	23.86	24.42	24.98