

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: P1585809

Luminaire Tested: 14CZSP-SB-54VHE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585809
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-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 5200 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

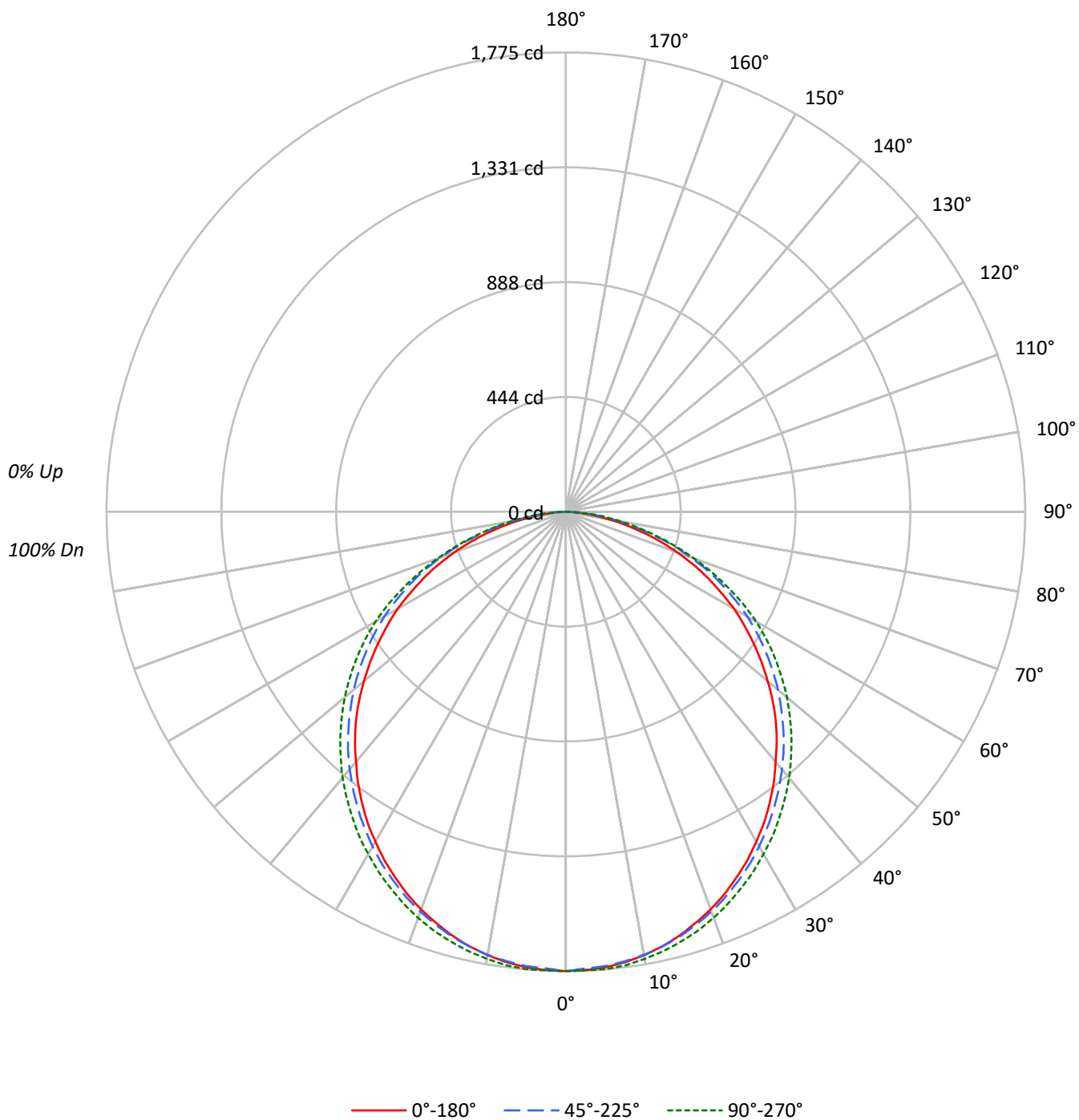
Lumens per Lamp: N/A
Luminaire Lumens: 5127.0 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5980	5980	5980
5°	5975	5960	6000
10°	5954	5948	6001
15°	5915	5928	5998
20°	5863	5898	5988
25°	5799	5854	5964
30°	5727	5810	5943
35°	5647	5763	5921
40°	5548	5714	5906
45°	5469	5663	5874
50°	5339	5610	5846
55°	5202	5536	5801
60°	5062	5455	5724
65°	4834	5311	5505
70°	4511	5072	5195
75°	4019	4596	4731
80°	3281	3984	4184
85°	2169	3170	3398

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5874 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.1	3.3
10°-20°	481.5	9.4
20°-30°	729.0	14.2
30°-40°	879.9	17.2
40°-50°	918.9	17.9
50°-60°	840.6	16.4
60°-70°	649.8	12.7
70°-80°	367.9	7.2
80°-90°	91.4	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°	1378.5	26.9
0°-40°	2258.4	44.0
0°-60°	4017.9	78.4
0°-90°	5127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5127.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1766	1779	1762	1764	1774	168
15°	1696	1710	1699	1708	1719	478
25°	1560	1580	1574	1589	1604	719
35°	1373	1392	1401	1425	1439	859
45°	1148	1170	1188	1219	1233	884
55°	886	912	942	972	987	792
65°	606	631	666	686	690	598
75°	309	335	353	362	363	327
85°	56	65	82	86	88	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1772.5	1785.0	1765.8	1769.5	1773.2
5°	1766.5	1779.1	1762.1	1763.6	1773.9
7.5°	1755.5	1769.5	1751.8	1754.7	1767.3
10°	1740.0	1754.0	1738.5	1741.4	1754.0
12.5°	1720.0	1734.1	1720.8	1725.2	1739.2
15°	1695.6	1710.4	1699.3	1707.5	1719.3
17.5°	1666.1	1684.6	1672.8	1685.3	1697.1
20°	1635.1	1653.6	1644.7	1655.8	1669.8
22.5°	1599.6	1618.1	1611.5	1623.3	1638.8
25°	1559.8	1579.7	1574.5	1589.3	1604.1
27.5°	1518.4	1537.6	1536.1	1552.4	1567.9
30°	1471.9	1492.6	1493.3	1512.5	1527.3
32.5°	1425.4	1443.8	1448.2	1469.7	1486.6
35°	1372.9	1392.1	1401.0	1424.6	1439.4
37.5°	1319.7	1341.2	1350.8	1376.6	1392.1
40°	1261.4	1285.8	1299.1	1326.4	1342.6
42.5°	1206.0	1228.2	1245.9	1273.2	1288.0
45°	1147.7	1169.8	1188.3	1218.6	1232.6
47.5°	1084.9	1109.3	1129.2	1158.7	1174.3
50°	1018.4	1045.0	1070.1	1098.9	1115.2
52.5°	952.7	978.5	1007.3	1035.4	1051.7
55°	885.5	912.1	942.4	971.9	987.4
57.5°	817.5	844.1	877.4	904.0	920.2
60°	751.1	775.4	809.4	836.0	849.3
62.5°	675.7	703.8	738.5	765.1	772.5
65°	606.3	631.4	666.1	686.1	690.5
67.5°	532.5	557.6	592.3	603.4	610.0
70°	457.9	484.5	514.8	522.1	527.3
72.5°	382.6	409.9	433.5	440.9	445.3
75°	308.7	335.3	353.0	361.9	363.4
77.5°	237.1	261.4	277.7	288.0	288.0
80°	169.1	187.6	205.3	216.4	215.6
82.5°	107.8	121.9	140.3	148.4	153.6
85°	56.1	65.0	82.0	85.7	87.9
87.5°	17.7	22.9	29.5	24.4	23.6
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	17.89	19.54	18.26	19.86	20.17	18.43	20.09	18.80	20.40	20.71
	3H	19.67	21.16	20.04	21.49	21.85	20.29	21.79	20.67	22.11	22.47
	4H	20.29	21.70	20.69	22.05	22.42	20.97	22.37	21.36	22.72	23.10
	6H	20.69	22.00	21.11	22.36	22.75	21.45	22.76	21.86	23.12	23.51
	8H	20.80	22.04	21.22	22.43	22.83	21.61	22.86	22.03	23.24	23.64
	12H	20.84	22.04	21.27	22.42	22.85	21.71	22.90	22.14	23.28	23.71
4H	2H	18.63	20.04	19.03	20.39	20.76	19.05	20.46	19.45	20.81	21.18
	3H	20.62	21.81	21.03	22.20	22.60	21.13	22.31	21.54	22.71	23.11
	4H	21.37	22.44	21.80	22.86	23.29	21.93	23.00	22.36	23.42	23.85
	6H	21.89	22.83	22.35	23.27	23.72	22.55	23.48	23.00	23.92	24.38
	8H	22.03	22.90	22.49	23.35	23.81	22.75	23.63	23.21	24.07	24.53
	12H	22.10	22.89	22.58	23.37	23.84	22.89	23.68	23.37	24.15	24.62
8H	4H	21.73	22.60	22.19	23.05	23.51	22.22	23.10	22.68	23.54	24.00
	6H	22.36	23.09	22.85	23.58	24.05	22.96	23.68	23.45	24.17	24.65
	8H	22.56	23.21	23.06	23.71	24.20	23.23	23.88	23.74	24.39	24.87
	12H	22.68	23.26	23.19	23.75	24.31	23.44	24.01	23.94	24.50	25.06
12H	4H	21.77	22.56	22.25	23.03	23.50	22.25	23.03	22.73	23.51	23.98
	6H	22.43	23.08	22.93	23.59	24.07	23.00	23.65	23.51	24.16	24.64
	8H	22.68	23.25	23.18	23.74	24.30	23.33	23.90	23.83	24.39	24.95