

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: P1585792

Luminaire Tested: 14CZSP-SB-54VHE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-54VHE-L830-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 5200 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

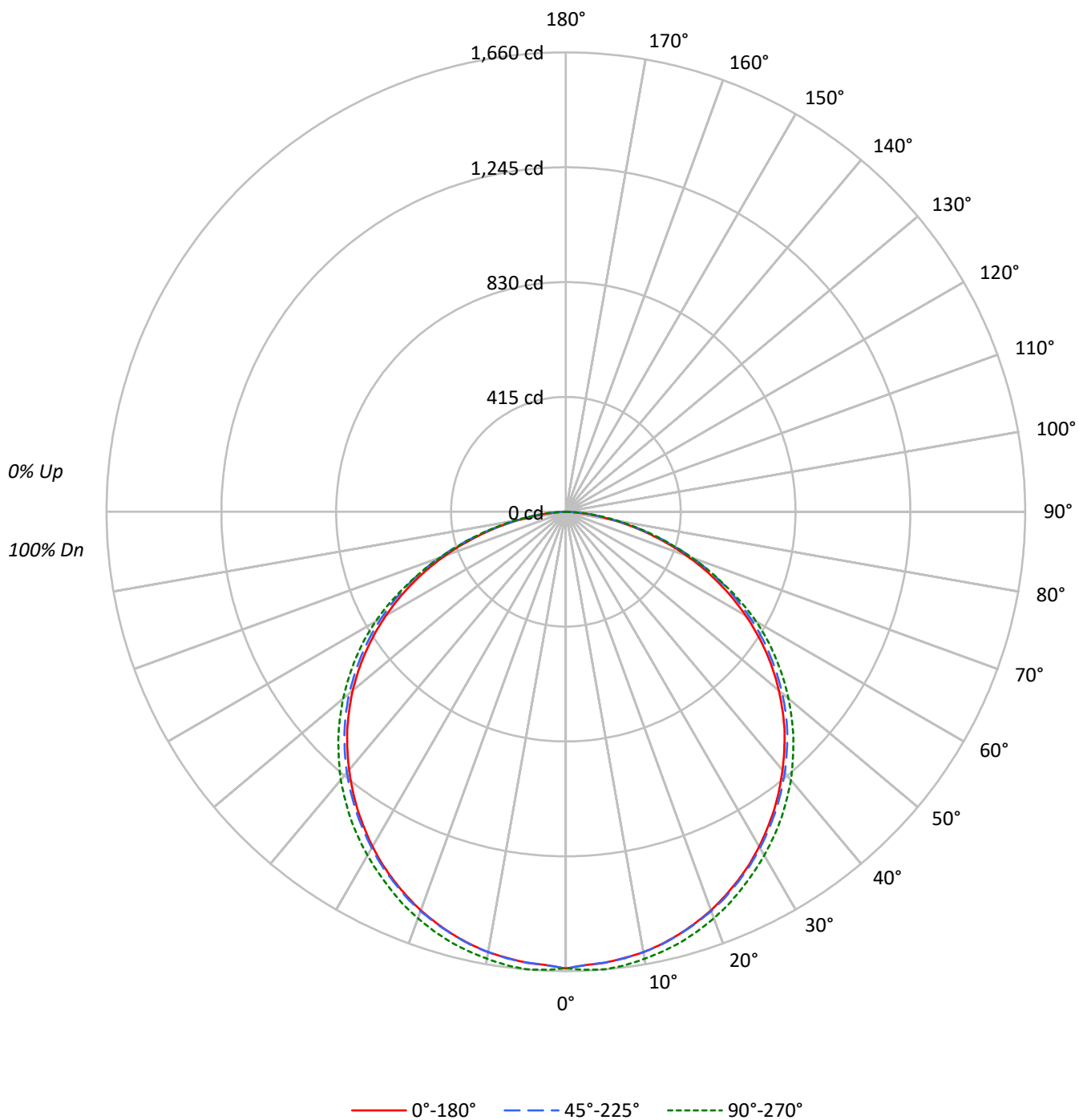
Lumens per Lamp: N/A
Luminaire Lumens: 4869.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	99	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5559	5559	5559
5°	5533	5530	5614
10°	5531	5528	5612
15°	5514	5519	5615
20°	5497	5507	5606
25°	5469	5483	5588
30°	5436	5459	5578
35°	5401	5434	5575
40°	5358	5414	5565
45°	5326	5393	5543
50°	5273	5354	5507
55°	5190	5287	5453
60°	5064	5195	5356
65°	4875	5059	5112
70°	4583	4797	4767
75°	4115	4290	4320
80°	3400	3574	3761
85°	2277	2652	2795

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5543 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	3.2
10°-20°	449.5	9.2
20°-30°	684.5	14.1
30°-40°	833.0	17.1
40°-50°	878.2	18.0
50°-60°	808.9	16.6
60°-70°	624.7	12.8
70°-80°	349.6	7.2
80°-90°	84.3	1.7
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°	1290.4	26.5
0°-40°	2123.4	43.6
0°-60°	3810.4	78.3
0°-90°	4869.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4869.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1636	1659	1635	1637	1660	155
15°	1581	1602	1582	1591	1610	446
25°	1471	1492	1475	1484	1503	678
35°	1313	1332	1321	1338	1355	821
45°	1118	1133	1132	1149	1163	861
55°	884	898	900	918	928	789
65°	611	629	634	640	641	604
75°	316	336	330	329	332	335
85°	59	65	69	77	72	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1649.9	1649.9	1649.9	1649.9	1649.9
2.5°	1639.5	1663.3	1639.5	1643.2	1656.6
5°	1635.8	1658.9	1635.0	1637.3	1659.6
7.5°	1626.1	1649.9	1627.6	1630.5	1652.2
10°	1616.4	1638.0	1615.6	1619.4	1640.2
12.5°	1600.0	1622.3	1601.5	1605.9	1626.8
15°	1580.6	1602.2	1582.1	1591.0	1609.7
17.5°	1558.2	1579.1	1559.7	1570.2	1588.0
20°	1532.9	1553.0	1535.9	1543.3	1563.4
22.5°	1503.0	1523.9	1507.5	1514.2	1535.9
25°	1471.0	1491.9	1474.7	1484.4	1503.0
27.5°	1435.9	1456.1	1441.2	1453.1	1469.5
30°	1397.2	1416.6	1403.1	1417.3	1433.7
32.5°	1355.4	1376.3	1362.9	1379.3	1395.7
35°	1312.9	1332.3	1321.1	1337.5	1355.4
37.5°	1266.7	1285.3	1277.1	1294.3	1310.7
40°	1218.2	1239.1	1230.9	1248.8	1265.2
42.5°	1168.3	1188.4	1181.7	1200.4	1214.5
45°	1117.6	1133.3	1131.8	1148.9	1163.1
47.5°	1061.7	1081.1	1078.1	1095.2	1107.9
50°	1005.8	1021.4	1021.4	1037.8	1050.5
52.5°	945.4	961.0	961.0	980.4	990.8
55°	883.5	898.4	899.9	918.5	928.2
57.5°	817.9	833.5	836.5	855.2	864.1
60°	751.5	766.4	770.9	789.5	794.8
62.5°	682.2	700.1	702.3	717.2	720.2
65°	611.4	629.3	634.5	640.4	641.2
67.5°	539.0	557.7	562.9	562.9	562.9
70°	465.2	482.4	486.9	483.9	483.9
72.5°	390.7	409.3	407.1	404.1	405.6
75°	316.1	335.5	329.5	328.8	331.8
77.5°	244.5	263.2	253.5	259.5	260.2
80°	175.2	189.4	184.2	193.1	193.8
82.5°	112.6	121.5	123.0	130.5	128.2
85°	58.9	64.9	68.6	76.8	72.3
87.5°	18.6	24.6	22.4	26.1	20.1
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	17.99	19.65	18.36	19.96	20.28	18.21	19.87	18.58	20.18	20.50
	3H	19.82	21.31	20.19	21.64	22.00	20.01	21.51	20.39	21.84	22.20
	4H	20.46	21.87	20.86	22.22	22.60	20.65	22.06	21.05	22.41	22.78
	6H	20.89	22.20	21.30	22.56	22.95	21.10	22.41	21.51	22.78	23.17
	8H	21.00	22.25	21.42	22.64	23.04	21.23	22.49	21.66	22.87	23.27
	12H	21.05	22.25	21.48	22.63	23.06	21.31	22.51	21.74	22.89	23.32
4H	2H	18.67	20.09	19.07	20.43	20.81	18.84	20.26	19.24	20.60	20.98
	3H	20.72	21.90	21.12	22.30	22.70	20.86	22.04	21.27	22.44	22.84
	4H	21.50	22.57	21.93	22.98	23.42	21.62	22.69	22.05	23.10	23.54
	6H	22.04	22.98	22.50	23.42	23.88	22.19	23.13	22.64	23.57	24.02
	8H	22.19	23.07	22.65	23.51	23.97	22.36	23.24	22.82	23.68	24.15
	12H	22.27	23.06	22.75	23.54	24.01	22.48	23.27	22.96	23.74	24.21
8H	4H	21.80	22.68	22.26	23.12	23.59	21.91	22.79	22.37	23.23	23.69
	6H	22.46	23.19	22.95	23.68	24.15	22.59	23.32	23.08	23.81	24.28
	8H	22.67	23.32	23.18	23.83	24.31	22.83	23.48	23.34	23.99	24.48
	12H	22.80	23.38	23.31	23.87	24.43	23.01	23.59	23.51	24.08	24.64
12H	4H	21.83	22.62	22.31	23.10	23.57	21.94	22.73	22.42	23.20	23.67
	6H	22.51	23.16	23.02	23.67	24.15	22.63	23.29	23.14	23.79	24.28
	8H	22.76	23.34	23.27	23.83	24.39	22.92	23.50	23.43	23.99	24.55