

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: P1585795

Luminaire Tested: 14CZSP-SB-54VHE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585795
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-L835
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 5200 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

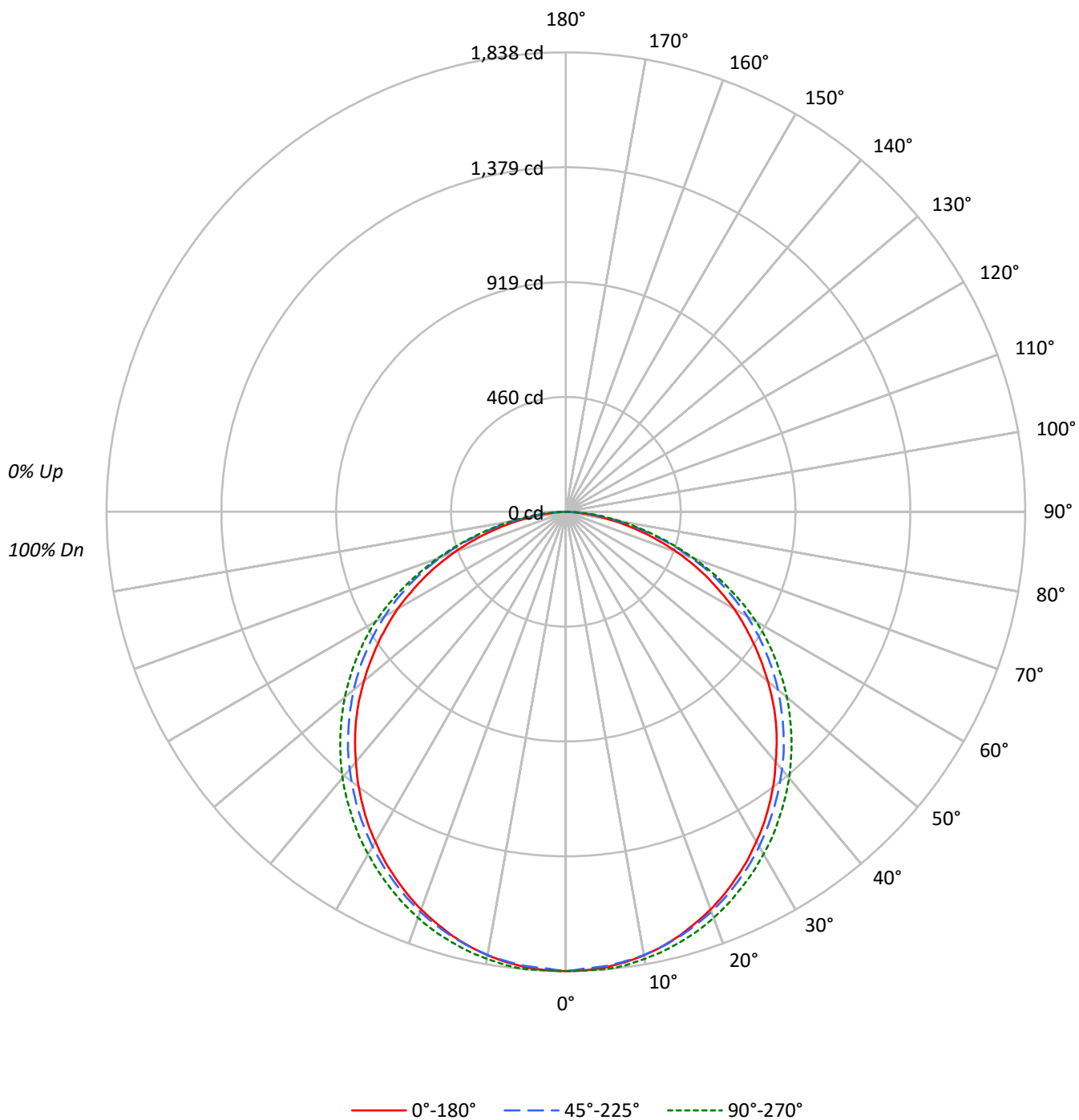
Lumens per Lamp: N/A
Luminaire Lumens: 5310.0 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	6193	6193	6193
5°	6189	6173	6215
10°	6166	6161	6216
15°	6126	6140	6212
20°	6073	6108	6201
25°	6006	6063	6177
30°	5931	6018	6155
35°	5849	5969	6132
40°	5746	5918	6117
45°	5664	5865	6083
50°	5529	5810	6055
55°	5388	5734	6007
60°	5242	5649	5928
65°	5007	5501	5702
70°	4672	5252	5380
75°	4162	4760	4899
80°	3400	4125	4333
85°	2246	3282	3518

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6083 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.1	3.3
10°-20°	498.7	9.4
20°-30°	755.0	14.2
30°-40°	911.3	17.2
40°-50°	951.7	17.9
50°-60°	870.6	16.4
60°-70°	673.0	12.7
70°-80°	381.0	7.2
80°-90°	94.6	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°	1427.7	26.9
0°-40°	2339.0	44.0
0°-60°	4161.3	78.4
0°-90°	5310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1830	1843	1825	1826	1837	174
15°	1756	1772	1760	1768	1781	495
25°	1615	1636	1631	1646	1661	745
35°	1422	1442	1451	1476	1491	889
45°	1189	1212	1231	1262	1277	915
55°	917	945	976	1007	1023	820
65°	628	654	690	711	715	620
75°	320	347	366	375	376	339
85°	58	67	85	89	91	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1838.0	1838.0	1838.0	1838.0	1838.0
2.5°	1835.7	1848.7	1828.8	1832.7	1836.5
5°	1829.6	1842.6	1825.0	1826.5	1837.3
7.5°	1818.1	1832.7	1814.3	1817.4	1830.4
10°	1802.1	1816.6	1800.5	1803.6	1816.6
12.5°	1781.4	1795.9	1782.2	1786.8	1801.3
15°	1756.2	1771.5	1760.0	1768.4	1780.6
17.5°	1725.6	1744.7	1732.5	1745.5	1757.7
20°	1693.5	1712.6	1703.4	1714.9	1729.4
22.5°	1656.7	1675.9	1669.0	1681.2	1697.3
25°	1615.4	1636.1	1630.7	1646.0	1661.3
27.5°	1572.6	1592.5	1591.0	1607.8	1623.8
30°	1524.4	1545.8	1546.6	1566.5	1581.8
32.5°	1476.2	1495.3	1499.9	1522.1	1539.7
35°	1421.9	1441.8	1451.0	1475.5	1490.8
37.5°	1366.8	1389.0	1399.0	1425.7	1441.8
40°	1306.4	1331.7	1345.4	1373.7	1390.6
42.5°	1249.1	1272.0	1290.4	1318.7	1334.0
45°	1188.6	1211.6	1230.7	1262.1	1276.6
47.5°	1123.6	1148.9	1169.5	1200.1	1216.2
50°	1054.8	1082.3	1108.3	1138.1	1155.0
52.5°	986.7	1013.5	1043.3	1072.4	1089.2
55°	917.1	944.6	976.0	1006.6	1022.6
57.5°	846.7	874.3	908.7	936.2	953.0
60°	777.9	803.1	838.3	865.8	879.6
62.5°	699.9	728.9	764.9	792.4	800.1
65°	628.0	654.0	689.9	710.6	715.2
67.5°	551.5	577.5	613.4	624.9	631.8
70°	474.2	501.8	533.1	540.8	546.1
72.5°	396.2	424.5	449.0	456.6	461.2
75°	319.7	347.3	365.6	374.8	376.3
77.5°	245.5	270.8	287.6	298.3	298.3
80°	175.2	194.3	212.6	224.1	223.3
82.5°	111.7	126.2	145.3	153.7	159.1
85°	58.1	67.3	84.9	88.7	91.0
87.5°	18.4	23.7	30.6	25.2	24.5
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	18.02	19.67	18.38	19.98	20.29	18.56	20.21	18.92	20.52	20.84
	3H	19.79	21.28	20.16	21.61	21.97	20.42	21.91	20.79	22.24	22.60
	4H	20.41	21.82	20.81	22.17	22.54	21.09	22.50	21.49	22.84	23.22
	6H	20.82	22.12	21.23	22.49	22.88	21.57	22.88	21.98	23.24	23.63
	8H	20.92	22.17	21.34	22.55	22.95	21.73	22.98	22.15	23.37	23.76
	12H	20.97	22.16	21.39	22.54	22.97	21.83	23.02	22.26	23.40	23.83
4H	2H	18.75	20.16	19.15	20.51	20.88	19.18	20.58	19.57	20.93	21.31
	3H	20.75	21.93	21.16	22.33	22.72	21.25	22.44	21.66	22.83	23.23
	4H	21.50	22.57	21.93	22.98	23.41	22.06	23.12	22.49	23.54	23.97
	6H	22.02	22.95	22.47	23.39	23.84	22.67	23.61	23.12	24.05	24.50
	8H	22.15	23.03	22.61	23.47	23.93	22.87	23.75	23.33	24.19	24.65
	12H	22.23	23.01	22.71	23.49	23.96	23.01	23.80	23.49	24.27	24.74
8H	4H	21.85	22.73	22.31	23.17	23.63	22.35	23.22	22.80	23.66	24.13
	6H	22.48	23.21	22.98	23.70	24.17	23.08	23.80	23.57	24.29	24.77
	8H	22.68	23.33	23.19	23.84	24.32	23.35	24.00	23.86	24.51	24.99
	12H	22.80	23.38	23.31	23.87	24.43	23.56	24.13	24.06	24.62	25.18
12H	4H	21.89	22.68	22.37	23.15	23.62	22.37	23.16	22.85	23.63	24.10
	6H	22.55	23.20	23.06	23.71	24.19	23.12	23.77	23.63	24.28	24.76
	8H	22.80	23.37	23.30	23.86	24.42	23.45	24.02	23.95	24.51	25.07