

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: P1585801

Luminaire Tested: 14CZSP-SB-54VHE-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585801
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-L850
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 5200 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

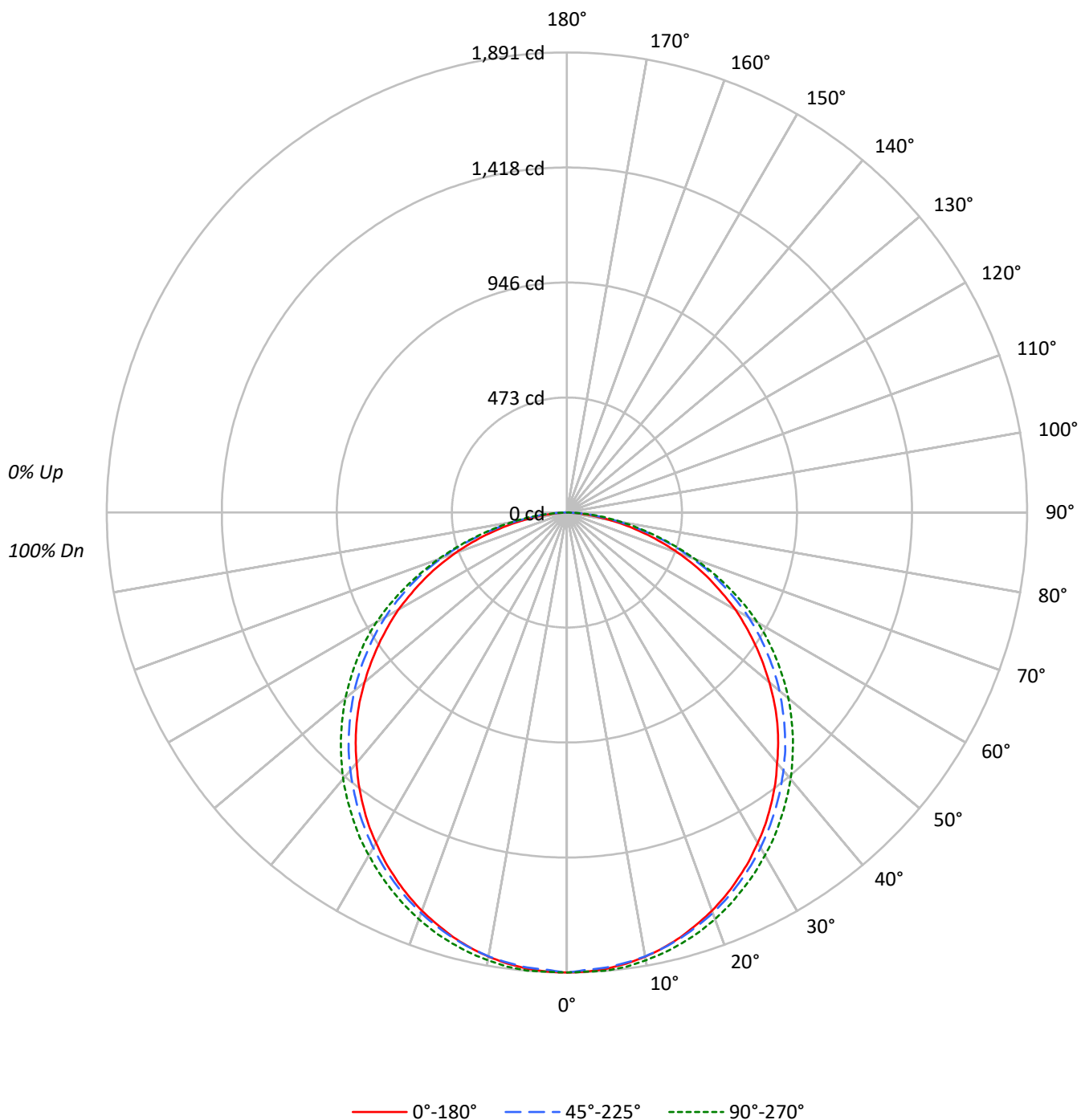
Lumens per Lamp: N/A
Luminaire Lumens: 5463.0 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1585801

CATALOG NUMBER: 14CZSP-SB-54VHE-L850

Luminous Intensity Polar Plot



TEST NUMBER: P1585801

CATALOG NUMBER: 14CZSP-SB-54VHE-L850

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°	6372	6372	6372
5°	6367	6351	6394
10°	6344	6338	6395
15°	6303	6317	6391
20°	6247	6284	6380
25°	6179	6238	6355
30°	6102	6191	6332
35°	6018	6141	6309
40°	5912	6089	6293
45°	5827	6034	6259
50°	5689	5978	6229
55°	5543	5899	6181
60°	5393	5813	6099
65°	5151	5659	5867
70°	4807	5404	5536
75°	4282	4896	5041
80°	3497	4246	4459
85°	2312	3375	3619

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6259 cd/sqm

TEST NUMBER: P1585801

CATALOG NUMBER: 14CZSP-SB-54VHE-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.1	3.3
10°-20°	513.0	9.4
20°-30°	776.7	14.2
30°-40°	937.6	17.2
40°-50°	979.1	17.9
50°-60°	895.7	16.4
60°-70°	692.4	12.7
70°-80°	392.0	7.2
80°-90°	97.4	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°	1468.9	26.9
0°-40°	2406.4	44.0
0°-60°	4281.2	78.4
0°-90°	5463.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5463.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1891	1891	1891	1891	1891	
5°	1882	1896	1878	1879	1890	179
15°	1807	1822	1811	1819	1832	510
25°	1662	1683	1678	1694	1709	766
35°	1463	1483	1493	1518	1534	915
45°	1223	1246	1266	1298	1313	942
55°	944	972	1004	1036	1052	844
65°	646	673	710	731	736	638
75°	329	357	376	386	387	349
85°	60	69	87	91	94	77
90°	0	0	0	0	0	

TEST NUMBER: P1585801

CATALOG NUMBER: 14CZSP-SB-54VHE-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1891.0	1891.0	1891.0	1891.0	1891.0
2.5°	1888.6	1902.0	1881.5	1885.5	1889.4
5°	1882.3	1895.7	1877.6	1879.2	1890.2
7.5°	1870.5	1885.5	1866.6	1869.7	1883.1
10°	1854.0	1868.9	1852.4	1855.6	1868.9
12.5°	1832.7	1847.7	1833.5	1838.3	1853.2
15°	1806.8	1822.5	1810.7	1819.4	1832.0
17.5°	1775.3	1795.0	1782.4	1795.8	1808.3
20°	1742.2	1761.9	1752.5	1764.3	1779.2
22.5°	1704.5	1724.1	1717.1	1729.7	1746.2
25°	1662.0	1683.2	1677.7	1693.5	1709.2
27.5°	1617.9	1638.4	1636.8	1654.1	1670.6
30°	1568.3	1590.4	1591.2	1611.6	1627.4
32.5°	1518.8	1538.4	1543.2	1566.0	1584.1
35°	1462.9	1483.3	1492.8	1518.0	1533.7
37.5°	1406.2	1429.1	1439.3	1466.8	1483.3
40°	1344.1	1370.0	1384.2	1413.3	1430.6
42.5°	1285.0	1308.7	1327.5	1356.7	1372.4
45°	1222.9	1246.5	1266.2	1298.4	1313.4
47.5°	1156.0	1182.0	1203.2	1234.7	1251.2
50°	1085.2	1113.5	1140.3	1170.9	1188.3
52.5°	1015.1	1042.7	1073.4	1103.3	1120.6
55°	943.5	971.8	1004.1	1035.6	1052.1
57.5°	871.1	899.5	934.9	963.2	980.5
60°	800.3	826.3	862.5	890.8	905.0
62.5°	720.0	749.9	786.9	815.3	823.1
65°	646.1	672.8	709.8	731.1	735.8
67.5°	567.4	594.1	631.1	642.9	650.0
70°	487.9	516.2	548.5	556.4	561.9
72.5°	407.6	436.7	461.9	469.8	474.5
75°	328.9	357.3	376.1	385.6	387.2
77.5°	252.6	278.6	295.9	306.9	306.9
80°	180.2	199.9	218.8	230.6	229.8
82.5°	114.9	129.8	149.5	158.2	163.7
85°	59.8	69.2	87.3	91.3	93.6
87.5°	18.9	24.4	31.5	26.0	25.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1585801

CATALOG NUMBER: 14CZSP-SB-54VHE-L850

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	18.11	19.76	18.48	20.08	20.39	18.66	20.31	19.02	20.62	20.93
	3H	19.89	21.38	20.26	21.71	22.07	20.52	22.01	20.89	22.34	22.70
	4H	20.51	21.92	20.91	22.27	22.64	21.19	22.60	21.59	22.94	23.32
	6H	20.92	22.22	21.33	22.58	22.98	21.67	22.98	22.08	23.34	23.73
	8H	21.02	22.26	21.44	22.65	23.05	21.83	23.08	22.25	23.47	23.86
	12H	21.06	22.26	21.49	22.64	23.07	21.93	23.12	22.36	23.50	23.93
4H	2H	18.85	20.26	19.25	20.61	20.98	19.27	20.68	19.67	21.03	21.40
	3H	20.85	22.03	21.25	22.42	22.82	21.35	22.54	21.76	22.93	23.33
	4H	21.59	22.66	22.03	23.08	23.51	22.15	23.22	22.58	23.64	24.07
	6H	22.11	23.05	22.57	23.49	23.94	22.77	23.70	23.22	24.14	24.60
	8H	22.25	23.12	22.71	23.57	24.03	22.97	23.85	23.43	24.29	24.75
	12H	22.33	23.11	22.80	23.59	24.06	23.11	23.90	23.59	24.37	24.84
8H	4H	21.95	22.82	22.41	23.27	23.73	22.44	23.32	22.90	23.76	24.23
	6H	22.58	23.31	23.07	23.80	24.27	23.18	23.90	23.67	24.39	24.87
	8H	22.78	23.43	23.28	23.93	24.42	23.45	24.10	23.96	24.61	25.09
	12H	22.90	23.48	23.41	23.97	24.53	23.66	24.23	24.16	24.72	25.28
12H	4H	21.99	22.78	22.47	23.25	23.72	22.47	23.26	22.95	23.73	24.20
	6H	22.65	23.30	23.15	23.81	24.29	23.22	23.87	23.73	24.38	24.86
	8H	22.90	23.47	23.40	23.96	24.52	23.55	24.12	24.05	24.61	25.17