

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: P1585781

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585781
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-54HE-L850
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

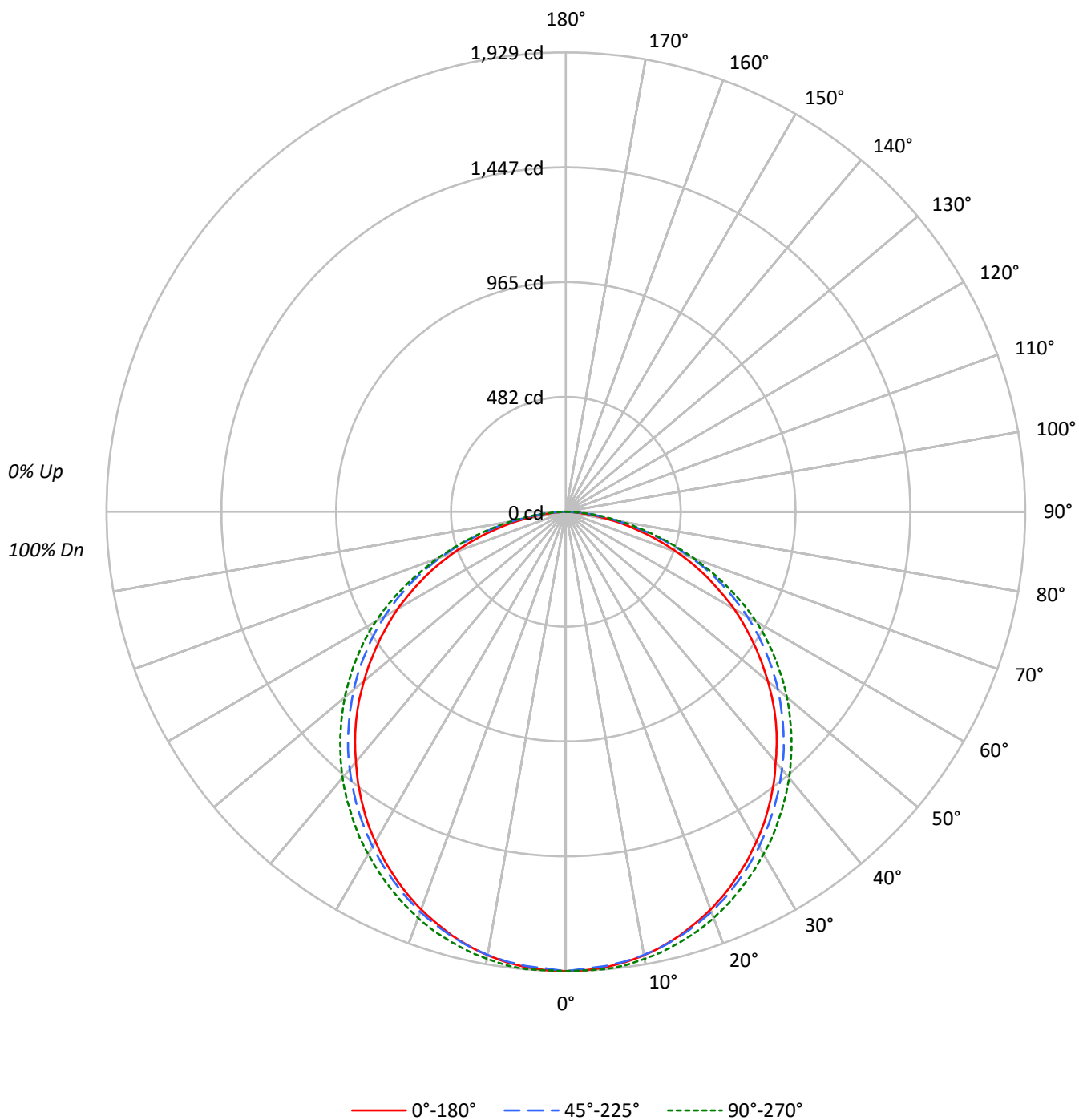
Lumens per Lamp: N/A
Luminaire Lumens: 5573.0 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.3
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°	6500	6500	6500
5°	6495	6479	6522
10°	6471	6466	6524
15°	6430	6444	6519
20°	6373	6411	6509
25°	6303	6363	6483
30°	6225	6316	6459
35°	6139	6264	6436
40°	6031	6211	6419
45°	5945	6155	6385
50°	5803	6098	6355
55°	5654	6017	6305
60°	5502	5929	6222
65°	5255	5773	5985
70°	4903	5512	5647
75°	4369	4995	5143
80°	3567	4331	4548
85°	2358	3445	3692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6385 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.7	3.3
10°-20°	523.4	9.4
20°-30°	792.4	14.2
30°-40°	956.4	17.2
40°-50°	998.8	17.9
50°-60°	913.7	16.4
60°-70°	706.4	12.7
70°-80°	399.9	7.2
80°-90°	99.3	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°	1498.4	26.9
0°-40°	2454.9	44.0
0°-60°	4367.4	78.4
0°-90°	5573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5573.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1929	1929	1929	1929	1929	
5°	1920	1934	1915	1917	1928	182
15°	1843	1859	1847	1856	1869	520
25°	1695	1717	1712	1728	1744	781
35°	1492	1513	1523	1548	1565	933
45°	1248	1272	1292	1325	1340	961
55°	962	991	1024	1056	1073	861
65°	659	686	724	746	751	651
75°	336	364	384	393	395	356
85°	61	71	89	93	96	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1929.1	1929.1	1929.1	1929.1	1929.1
2.5°	1926.6	1940.3	1919.4	1923.4	1927.4
5°	1920.2	1933.9	1915.4	1917.0	1928.2
7.5°	1908.2	1923.4	1904.2	1907.4	1921.0
10°	1891.3	1906.6	1889.7	1892.9	1906.6
12.5°	1869.6	1884.9	1870.4	1875.3	1890.5
15°	1843.2	1859.2	1847.2	1856.0	1868.8
17.5°	1811.0	1831.1	1818.3	1831.9	1844.8
20°	1777.3	1797.4	1787.8	1799.8	1815.1
22.5°	1738.8	1758.9	1751.6	1764.5	1781.3
25°	1695.4	1717.1	1711.5	1727.6	1743.6
27.5°	1650.5	1671.4	1669.8	1687.4	1704.3
30°	1599.9	1622.4	1623.2	1644.1	1660.1
32.5°	1549.3	1569.4	1574.2	1597.5	1616.0
35°	1492.3	1513.2	1522.9	1548.5	1564.6
37.5°	1434.5	1457.8	1468.3	1496.4	1513.2
40°	1371.1	1397.6	1412.1	1441.8	1459.4
42.5°	1310.9	1335.0	1354.3	1384.0	1400.0
45°	1247.5	1271.6	1291.7	1324.6	1339.8
47.5°	1179.3	1205.8	1227.4	1259.5	1276.4
50°	1107.0	1135.9	1163.2	1194.5	1212.2
52.5°	1035.6	1063.7	1095.0	1125.5	1143.1
55°	962.5	991.4	1024.3	1056.4	1073.3
57.5°	888.7	917.6	953.7	982.6	1000.2
60°	816.4	842.9	879.8	908.7	923.2
62.5°	734.5	765.0	802.8	831.7	839.7
65°	659.1	686.4	724.1	745.8	750.6
67.5°	578.8	606.1	643.8	655.9	663.1
70°	497.7	526.6	559.5	567.6	573.2
72.5°	415.8	445.5	471.2	479.3	484.1
75°	335.6	364.5	383.7	393.4	395.0
77.5°	257.7	284.2	301.8	313.1	313.1
80°	183.8	203.9	223.2	235.2	234.4
82.5°	117.2	132.5	152.5	161.4	167.0
85°	61.0	70.6	89.1	93.1	95.5
87.5°	19.3	24.9	32.1	26.5	25.7
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	18.18	19.83	18.55	20.15	20.46	18.72	20.37	19.09	20.69	21.00
	3H	19.96	21.45	20.33	21.78	22.14	20.58	22.08	20.96	22.40	22.76
	4H	20.58	21.99	20.98	22.34	22.71	21.26	22.66	21.65	23.01	23.39
	6H	20.98	22.29	21.40	22.65	23.04	21.74	23.05	22.15	23.41	23.80
	8H	21.09	22.33	21.51	22.72	23.12	21.90	23.15	22.32	23.53	23.93
	12H	21.13	22.33	21.56	22.71	23.14	22.00	23.19	22.43	23.57	24.00
4H	2H	18.92	20.33	19.32	20.68	21.05	19.34	20.75	19.74	21.10	21.47
	3H	20.91	22.10	21.32	22.49	22.89	21.42	22.60	21.83	23.00	23.40
	4H	21.66	22.73	22.09	23.15	23.58	22.22	23.29	22.65	23.71	24.14
	6H	22.18	23.12	22.64	23.56	24.01	22.84	23.77	23.29	24.21	24.67
	8H	22.32	23.19	22.78	23.64	24.10	23.04	23.92	23.50	24.36	24.82
	12H	22.39	23.18	22.87	23.66	24.13	23.18	23.97	23.66	24.44	24.91
8H	4H	22.02	22.89	22.48	23.34	23.80	22.51	23.39	22.97	23.83	24.29
	6H	22.65	23.38	23.14	23.87	24.34	23.25	23.97	23.74	24.46	24.94
	8H	22.85	23.50	23.35	24.00	24.49	23.52	24.17	24.03	24.68	25.16
	12H	22.97	23.55	23.48	24.04	24.60	23.73	24.30	24.23	24.79	25.35
12H	4H	22.06	22.85	22.54	23.32	23.79	22.54	23.32	23.02	23.80	24.27
	6H	22.72	23.37	23.22	23.88	24.36	23.29	23.94	23.80	24.45	24.93
	8H	22.97	23.54	23.47	24.03	24.59	23.62	24.19	24.12	24.68	25.24