

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: P1585780

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585780
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-54HE-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

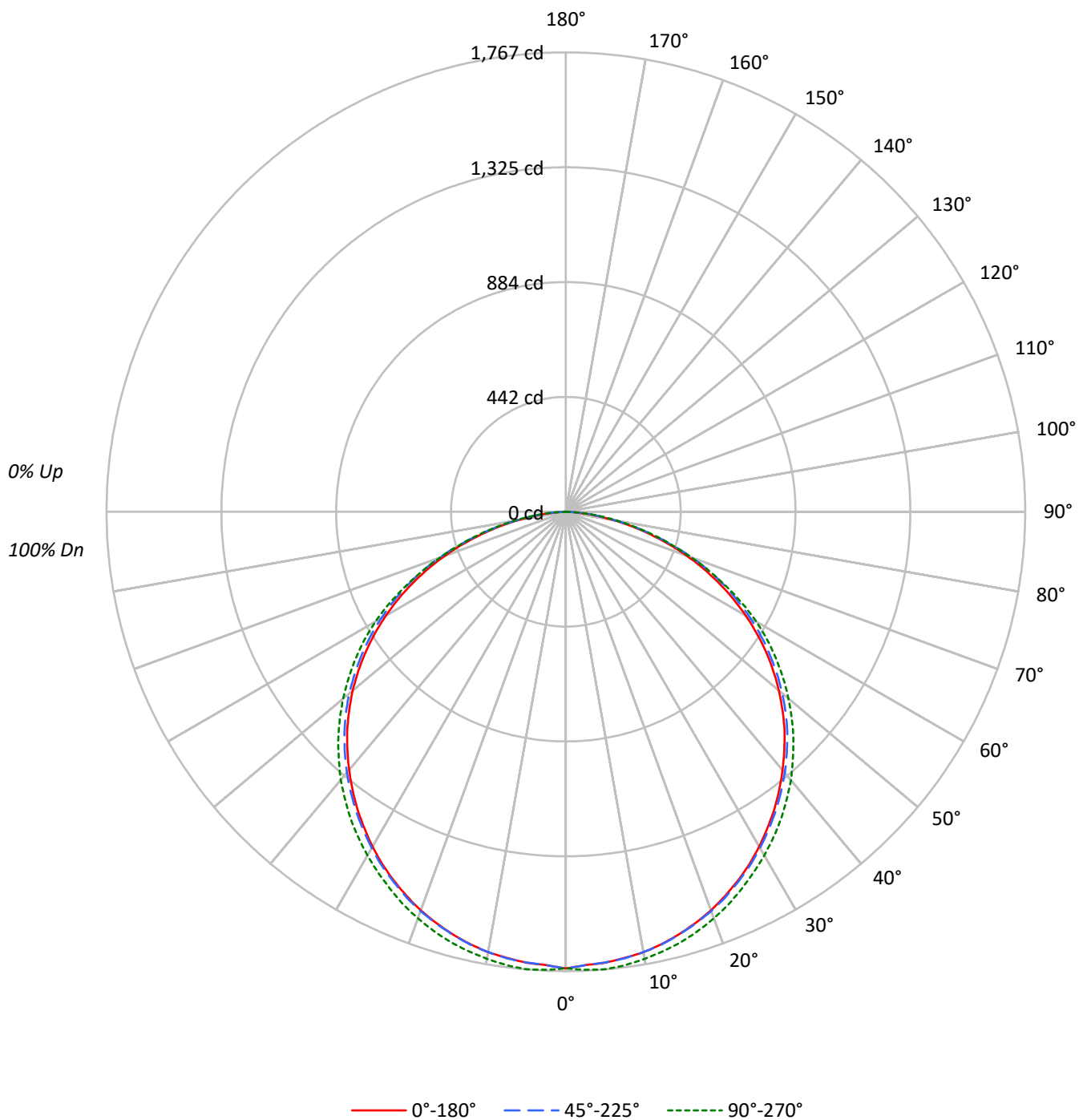
Lumens per Lamp: N/A
Luminaire Lumens: 5183.0 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.3
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
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°	5918	5918	5918
5°	5890	5887	5975
10°	5887	5884	5974
15°	5869	5875	5977
20°	5851	5862	5968
25°	5822	5836	5949
30°	5787	5811	5938
35°	5749	5785	5935
40°	5704	5764	5924
45°	5669	5741	5900
50°	5612	5700	5862
55°	5525	5627	5805
60°	5391	5530	5701
65°	5189	5385	5442
70°	4879	5105	5075
75°	4381	4567	4598
80°	3619	3803	4003
85°	2424	2822	2977

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5900 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	3.2
10°-20°	478.5	9.2
20°-30°	728.6	14.1
30°-40°	886.8	17.1
40°-50°	934.8	18.0
50°-60°	861.0	16.6
60°-70°	665.0	12.8
70°-80°	372.1	7.2
80°-90°	89.7	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°	1373.6	26.5
0°-40°	2260.3	43.6
0°-60°	4056.2	78.3
0°-90°	5183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1756	1756	1756	1756	1756	
5°	1741	1766	1740	1743	1767	166
15°	1682	1706	1684	1694	1714	475
25°	1566	1588	1570	1580	1600	722
35°	1398	1418	1406	1424	1443	874
45°	1190	1206	1205	1223	1238	917
55°	940	956	958	978	988	839
65°	651	670	675	682	682	643
75°	336	357	351	350	353	357
85°	63	69	73	82	77	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1756.3	1756.3	1756.3	1756.3	1756.3
2.5°	1745.2	1770.6	1745.2	1749.2	1763.5
5°	1741.2	1765.9	1740.5	1742.8	1766.6
7.5°	1730.9	1756.3	1732.5	1735.7	1758.7
10°	1720.6	1743.6	1719.8	1723.8	1746.0
12.5°	1703.2	1727.0	1704.7	1709.5	1731.7
15°	1682.5	1705.5	1684.1	1693.6	1713.5
17.5°	1658.7	1680.9	1660.3	1671.4	1690.5
20°	1631.7	1653.2	1634.9	1642.8	1664.3
22.5°	1600.0	1622.2	1604.7	1611.9	1634.9
25°	1565.9	1588.1	1569.8	1580.1	1600.0
27.5°	1528.6	1550.0	1534.1	1546.8	1564.3
30°	1487.3	1507.9	1493.6	1508.7	1526.2
32.5°	1442.8	1465.1	1450.8	1468.2	1485.7
35°	1397.6	1418.2	1406.3	1423.8	1442.8
37.5°	1348.4	1368.2	1359.5	1377.8	1395.2
40°	1296.8	1319.0	1310.3	1329.3	1346.8
42.5°	1243.6	1265.1	1257.9	1277.8	1292.8
45°	1189.7	1206.3	1204.7	1223.0	1238.1
47.5°	1130.1	1150.8	1147.6	1165.9	1179.4
50°	1070.6	1087.3	1087.3	1104.7	1118.2
52.5°	1006.3	1023.0	1023.0	1043.6	1054.7
55°	940.5	956.3	957.9	977.8	988.1
57.5°	870.6	887.3	890.5	910.3	919.8
60°	800.0	815.9	820.6	840.5	846.0
62.5°	726.2	745.2	747.6	763.5	766.7
65°	650.8	669.8	675.4	681.7	682.5
67.5°	573.8	593.6	599.2	599.2	599.2
70°	495.2	513.5	518.2	515.1	515.1
72.5°	415.9	435.7	433.3	430.2	431.7
75°	336.5	357.1	350.8	350.0	353.2
77.5°	260.3	280.2	269.8	276.2	277.0
80°	186.5	201.6	196.0	205.6	206.3
82.5°	119.8	129.4	131.0	138.9	136.5
85°	62.7	69.0	73.0	81.7	77.0
87.5°	19.8	26.2	23.8	27.8	21.4
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	18.21	19.87	18.58	20.18	20.50	18.43	20.08	18.79	20.40	20.71
	3H	20.03	21.53	20.41	21.86	22.22	20.23	21.73	20.61	22.05	22.41
	4H	20.68	22.09	21.08	22.44	22.81	20.87	22.28	21.26	22.63	23.00
	6H	21.11	22.42	21.52	22.78	23.17	21.32	22.63	21.73	22.99	23.38
	8H	21.22	22.47	21.64	22.86	23.26	21.45	22.70	21.88	23.09	23.49
	12H	21.27	22.47	21.70	22.85	23.28	21.53	22.73	21.96	23.11	23.54
4H	2H	18.89	20.30	19.29	20.65	21.03	19.06	20.47	19.46	20.82	21.20
	3H	20.93	22.12	21.34	22.51	22.91	21.07	22.26	21.48	22.66	23.06
	4H	21.71	22.78	22.14	23.20	23.63	21.83	22.91	22.26	23.32	23.75
	6H	22.26	23.20	22.72	23.64	24.09	22.41	23.35	22.86	23.79	24.24
	8H	22.41	23.29	22.87	23.73	24.19	22.58	23.46	23.04	23.90	24.37
	12H	22.49	23.28	22.97	23.75	24.22	22.70	23.48	23.18	23.96	24.43
8H	4H	22.02	22.90	22.48	23.34	23.80	22.13	23.01	22.59	23.45	23.91
	6H	22.68	23.41	23.17	23.90	24.37	22.81	23.54	23.30	24.03	24.50
	8H	22.88	23.54	23.39	24.04	24.53	23.05	23.70	23.56	24.21	24.69
	12H	23.02	23.60	23.52	24.09	24.65	23.23	23.80	23.73	24.29	24.85
12H	4H	22.05	22.84	22.53	23.31	23.78	22.16	22.94	22.64	23.42	23.89
	6H	22.72	23.38	23.23	23.88	24.37	22.85	23.51	23.36	24.01	24.50
	8H	22.98	23.56	23.49	24.05	24.61	23.14	23.72	23.65	24.21	24.77