

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: P1585789

Luminaire Tested: 14CZSP-SB-54HE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585789
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-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

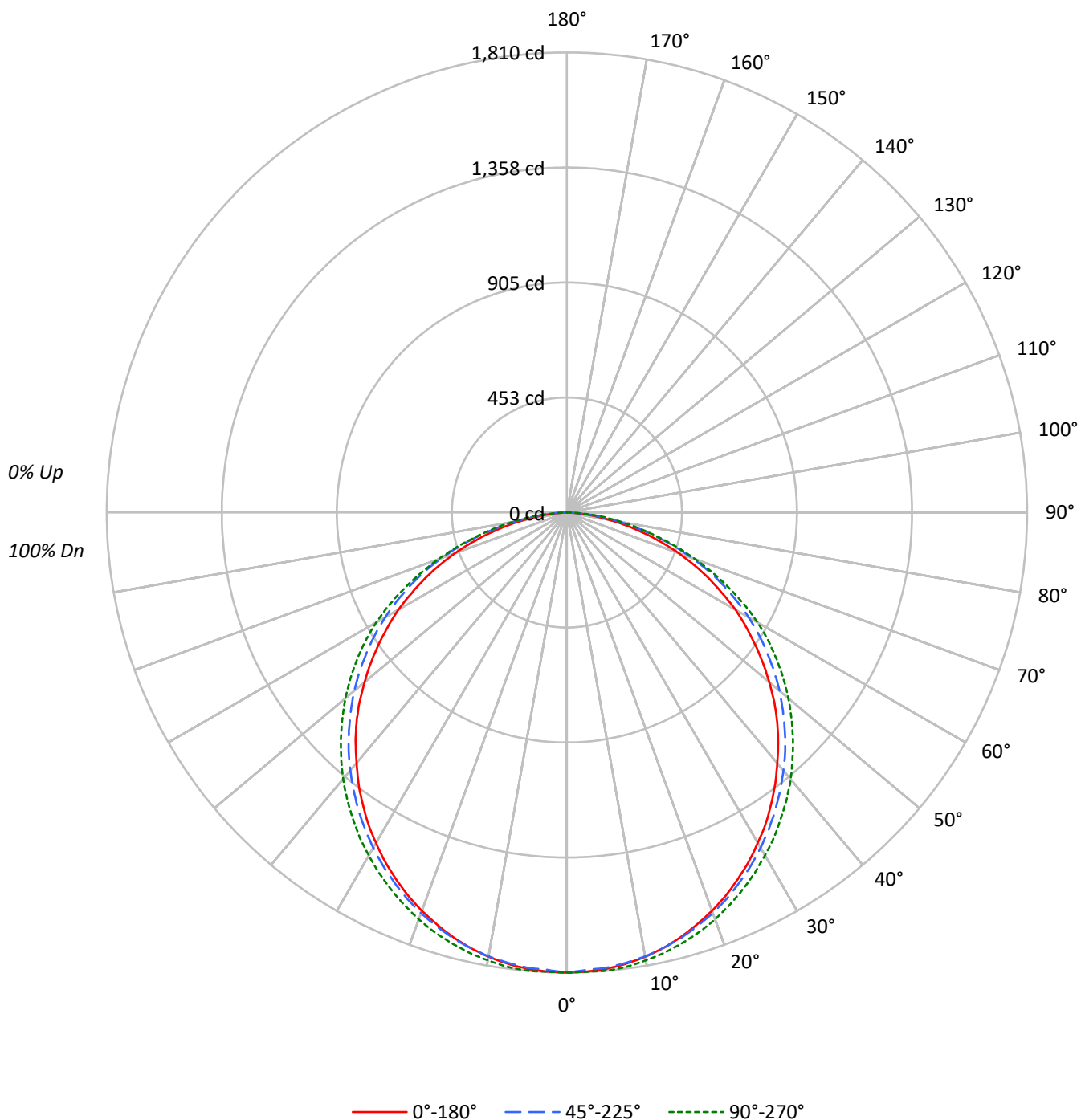
Lumens per Lamp: N/A
Luminaire Lumens: 5230.0 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	6100	6100	6100
5°	6095	6080	6121
10°	6073	6068	6122
15°	6034	6047	6118
20°	5981	6016	6108
25°	5916	5972	6084
30°	5842	5927	6062
35°	5761	5879	6040
40°	5660	5829	6024
45°	5579	5776	5992
50°	5446	5722	5963
55°	5307	5647	5917
60°	5164	5565	5839
65°	4931	5418	5616
70°	4602	5173	5299
75°	4100	4688	4826
80°	3347	4063	4269
85°	2215	3232	3464

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5992 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.5	3.3
10°-20°	491.1	9.4
20°-30°	743.6	14.2
30°-40°	897.6	17.2
40°-50°	937.3	17.9
50°-60°	857.5	16.4
60°-70°	662.9	12.7
70°-80°	375.3	7.2
80°-90°	93.2	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°	1406.2	26.9
0°-40°	2303.8	44.0
0°-60°	4098.6	78.4
0°-90°	5230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5230.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1810	1810	1810	1810	1810	
5°	1802	1815	1798	1799	1810	171
15°	1730	1745	1734	1742	1754	488
25°	1591	1611	1606	1621	1636	733
35°	1400	1420	1429	1453	1468	876
45°	1171	1193	1212	1243	1257	902
55°	903	930	961	991	1007	808
65°	618	644	680	700	704	610
75°	315	342	360	369	371	334
85°	57	66	84	87	90	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1810.3	1810.3	1810.3	1810.3	1810.3
2.5°	1808.1	1820.9	1801.3	1805.1	1808.8
5°	1802.0	1814.8	1797.5	1799.0	1809.6
7.5°	1790.7	1805.1	1787.0	1790.0	1802.8
10°	1774.9	1789.2	1773.4	1776.4	1789.2
12.5°	1754.6	1768.9	1755.3	1759.8	1774.2
15°	1729.7	1744.8	1733.5	1741.8	1753.8
17.5°	1699.6	1718.4	1706.4	1719.2	1731.2
20°	1667.9	1686.8	1677.7	1689.0	1703.3
22.5°	1631.8	1650.6	1643.8	1655.9	1671.7
25°	1591.1	1611.4	1606.2	1621.2	1636.3
27.5°	1548.9	1568.5	1567.0	1583.6	1599.4
30°	1501.4	1522.5	1523.3	1542.9	1557.9
32.5°	1454.0	1472.8	1477.3	1499.2	1516.5
35°	1400.5	1420.1	1429.1	1453.2	1468.3
37.5°	1346.3	1368.1	1377.9	1404.3	1420.1
40°	1286.7	1311.6	1325.2	1353.0	1369.6
42.5°	1230.2	1252.8	1270.9	1298.8	1313.9
45°	1170.7	1193.3	1212.2	1243.0	1257.4
47.5°	1106.7	1131.5	1151.9	1182.0	1197.8
50°	1038.9	1066.0	1091.6	1121.0	1137.6
52.5°	971.8	998.2	1027.6	1056.2	1072.8
55°	903.3	930.4	961.3	991.4	1007.2
57.5°	834.0	861.1	895.0	922.1	938.7
60°	766.2	791.0	825.7	852.8	866.4
62.5°	689.3	718.0	753.4	780.5	788.0
65°	618.5	644.1	679.5	699.9	704.4
67.5°	543.2	568.8	604.2	615.5	622.3
70°	467.1	494.2	525.1	532.6	537.9
72.5°	390.2	418.1	442.2	449.8	454.3
75°	314.9	342.0	360.1	369.1	370.7
77.5°	241.8	266.7	283.3	293.8	293.8
80°	172.5	191.4	209.4	220.7	220.0
82.5°	110.0	124.3	143.1	151.4	156.7
85°	57.3	66.3	83.6	87.4	89.6
87.5°	18.1	23.4	30.1	24.9	24.1
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	17.96	19.61	18.33	19.93	20.24	18.50	20.15	18.87	20.47	20.78
	3H	19.74	21.23	20.11	21.56	21.92	20.36	21.86	20.74	22.18	22.54
	4H	20.36	21.77	20.76	22.11	22.49	21.04	22.44	21.43	22.79	23.17
	6H	20.76	22.07	21.17	22.43	22.82	21.52	22.83	21.93	23.19	23.58
	8H	20.87	22.11	21.29	22.50	22.90	21.68	22.93	22.10	23.31	23.71
	12H	20.91	22.11	21.34	22.49	22.92	21.78	22.97	22.20	23.35	23.78
4H	2H	18.70	20.11	19.10	20.46	20.83	19.12	20.53	19.52	20.88	21.25
	3H	20.69	21.88	21.10	22.27	22.67	21.20	22.38	21.61	22.78	23.18
	4H	21.44	22.51	21.87	22.93	23.36	22.00	23.07	22.43	23.48	23.92
	6H	21.96	22.90	22.42	23.34	23.79	22.62	23.55	23.07	23.99	24.45
	8H	22.10	22.97	22.56	23.41	23.88	22.82	23.70	23.28	24.14	24.60
	12H	22.17	22.96	22.65	23.44	23.90	22.96	23.75	23.44	24.22	24.69
8H	4H	21.80	22.67	22.26	23.11	23.58	22.29	23.17	22.75	23.61	24.07
	6H	22.43	23.16	22.92	23.65	24.12	23.02	23.75	23.52	24.24	24.71
	8H	22.62	23.28	23.13	23.78	24.27	23.30	23.95	23.81	24.46	24.94
	12H	22.75	23.33	23.26	23.82	24.38	23.50	24.08	24.01	24.57	25.13
12H	4H	21.84	22.63	22.32	23.10	23.57	22.32	23.10	22.80	23.58	24.05
	6H	22.50	23.15	23.00	23.65	24.14	23.07	23.72	23.57	24.23	24.71
	8H	22.74	23.32	23.25	23.81	24.37	23.39	23.97	23.90	24.46	25.02