

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: P1585788

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585788
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-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

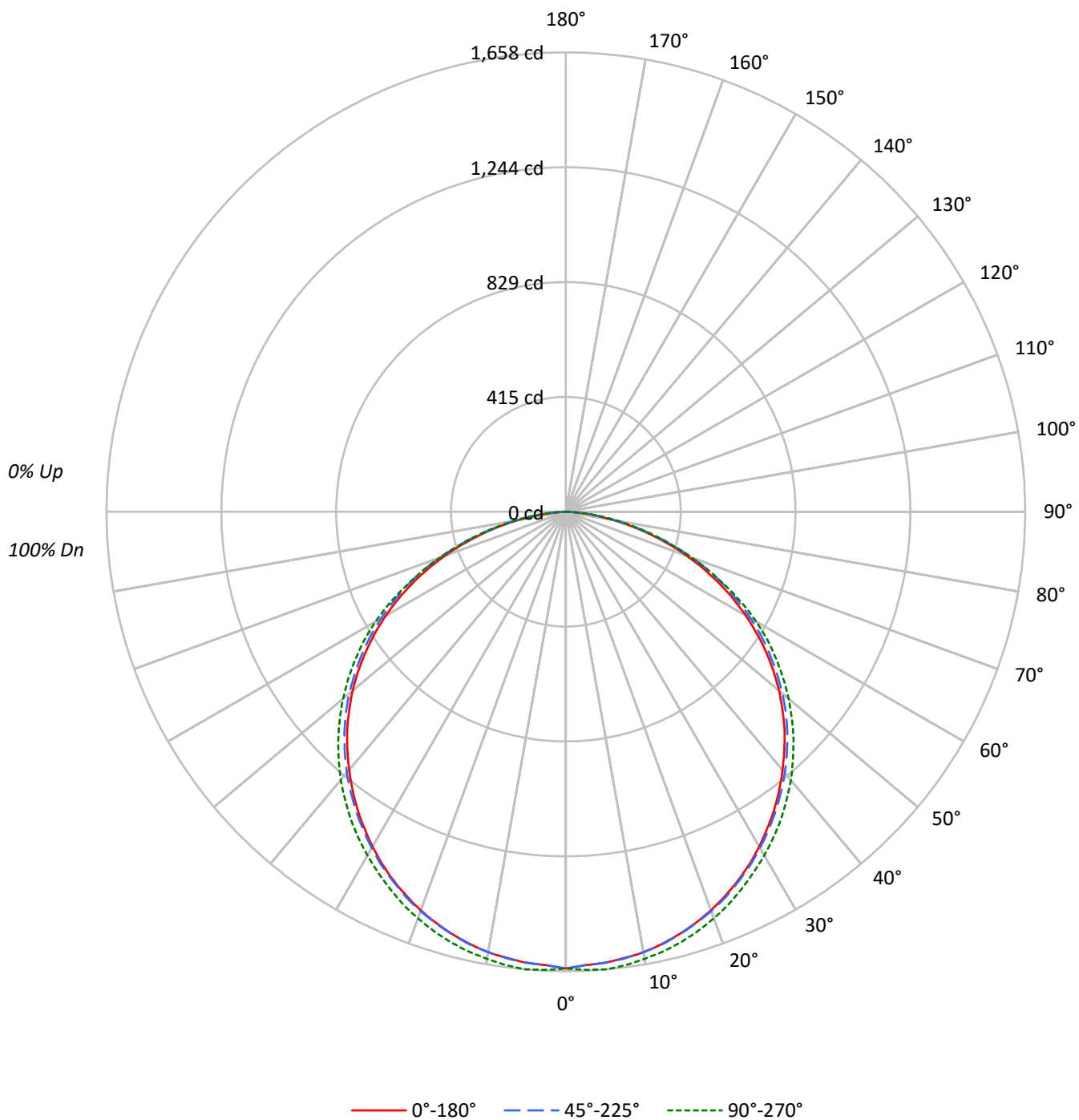
Lumens per Lamp: N/A
Luminaire Lumens: 4864.0 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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	99	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5554	5554	5554
5°	5527	5525	5608
10°	5525	5522	5606
15°	5508	5513	5609
20°	5491	5502	5600
25°	5463	5477	5582
30°	5430	5454	5572
35°	5395	5429	5570
40°	5353	5409	5559
45°	5320	5388	5537
50°	5267	5349	5501
55°	5185	5281	5448
60°	5060	5190	5351
65°	4869	5053	5107
70°	4579	4792	4762
75°	4111	4286	4315
80°	3396	3570	3757
85°	2273	2648	2791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5537 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	3.2
10°-20°	449.0	9.2
20°-30°	683.8	14.1
30°-40°	832.2	17.1
40°-50°	877.3	18.0
50°-60°	808.0	16.6
60°-70°	624.1	12.8
70°-80°	349.2	7.2
80°-90°	84.2	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°	1289.0	26.5
0°-40°	2121.2	43.6
0°-60°	3806.6	78.3
0°-90°	4864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4864.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1648	1648	1648	1648	1648	
5°	1634	1657	1633	1636	1658	155
15°	1579	1601	1580	1589	1608	446
25°	1470	1490	1473	1483	1502	677
35°	1312	1331	1320	1336	1354	820
45°	1116	1132	1131	1148	1162	860
55°	883	898	899	918	927	788
65°	611	629	634	640	640	603
75°	316	335	329	328	331	335
85°	59	65	68	77	72	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1648.2	1648.2	1648.2	1648.2	1648.2
2.5°	1637.8	1661.6	1637.8	1641.5	1654.9
5°	1634.1	1657.2	1633.3	1635.6	1657.9
7.5°	1624.4	1648.2	1625.9	1628.9	1650.5
10°	1614.7	1636.3	1614.0	1617.7	1638.5
12.5°	1598.3	1620.7	1599.8	1604.3	1625.1
15°	1579.0	1600.6	1580.5	1589.4	1608.0
17.5°	1556.6	1577.5	1558.1	1568.5	1586.4
20°	1531.3	1551.4	1534.3	1541.7	1561.8
22.5°	1501.5	1522.4	1506.0	1512.7	1534.3
25°	1469.5	1490.3	1473.2	1482.9	1501.5
27.5°	1434.5	1454.6	1439.7	1451.6	1468.0
30°	1395.7	1415.1	1401.7	1415.9	1432.2
32.5°	1354.0	1374.9	1361.5	1377.9	1394.3
35°	1311.6	1330.9	1319.8	1336.2	1354.0
37.5°	1265.4	1284.0	1275.8	1293.0	1309.3
40°	1217.0	1237.8	1229.7	1247.5	1263.9
42.5°	1167.1	1187.2	1180.5	1199.1	1213.3
45°	1116.4	1132.1	1130.6	1147.7	1161.9
47.5°	1060.6	1080.0	1077.0	1094.1	1106.8
50°	1004.7	1020.4	1020.4	1036.8	1049.4
52.5°	944.4	960.0	960.0	979.4	989.8
55°	882.6	897.5	899.0	917.6	927.3
57.5°	817.0	832.7	835.7	854.3	863.2
60°	750.8	765.6	770.1	788.7	794.0
62.5°	681.5	699.4	701.6	716.5	719.5
65°	610.7	628.6	633.8	639.8	640.5
67.5°	538.5	557.1	562.3	562.3	562.3
70°	464.8	481.9	486.4	483.4	483.4
72.5°	390.3	408.9	406.7	403.7	405.2
75°	315.8	335.2	329.2	328.5	331.4
77.5°	244.3	262.9	253.2	259.2	259.9
80°	175.0	189.2	184.0	192.9	193.6
82.5°	112.5	121.4	122.9	130.3	128.1
85°	58.8	64.8	68.5	76.7	72.2
87.5°	18.6	24.6	22.3	26.1	20.1
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	17.99	19.65	18.36	19.96	20.28	18.21	19.86	18.57	20.18	20.49
	3H	19.81	21.31	20.19	21.64	22.00	20.01	21.51	20.38	21.83	22.19
	4H	20.46	21.87	20.86	22.22	22.59	20.65	22.06	21.04	22.41	22.78
	6H	20.89	22.20	21.30	22.56	22.95	21.10	22.41	21.51	22.77	23.16
	8H	21.00	22.25	21.42	22.64	23.03	21.23	22.48	21.65	22.87	23.27
	12H	21.05	22.25	21.48	22.63	23.06	21.31	22.51	21.74	22.89	23.32
4H	2H	18.67	20.08	19.07	20.43	20.81	18.84	20.25	19.24	20.60	20.97
	3H	20.71	21.90	21.12	22.29	22.69	20.85	22.04	21.26	22.44	22.84
	4H	21.49	22.56	21.92	22.98	23.41	21.61	22.68	22.04	23.10	23.53
	6H	22.04	22.98	22.49	23.42	23.87	22.19	23.12	22.64	23.56	24.02
	8H	22.19	23.06	22.65	23.51	23.97	22.36	23.24	22.82	23.68	24.14
	12H	22.27	23.06	22.75	23.53	24.00	22.47	23.26	22.95	23.74	24.21
8H	4H	21.80	22.68	22.26	23.12	23.58	21.91	22.78	22.37	23.23	23.69
	6H	22.46	23.19	22.95	23.67	24.15	22.59	23.32	23.08	23.80	24.28
	8H	22.66	23.32	23.17	23.82	24.31	22.83	23.48	23.34	23.99	24.47
	12H	22.80	23.38	23.30	23.87	24.43	23.00	23.58	23.51	24.07	24.63
12H	4H	21.83	22.62	22.31	23.09	23.56	21.94	22.72	22.41	23.20	23.67
	6H	22.50	23.16	23.01	23.66	24.15	22.63	23.29	23.14	23.79	24.28
	8H	22.76	23.34	23.27	23.83	24.39	22.92	23.50	23.43	23.99	24.55