

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: P1585785

Luminaire Tested: 14CZSP-SB-54HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585785
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-L935
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

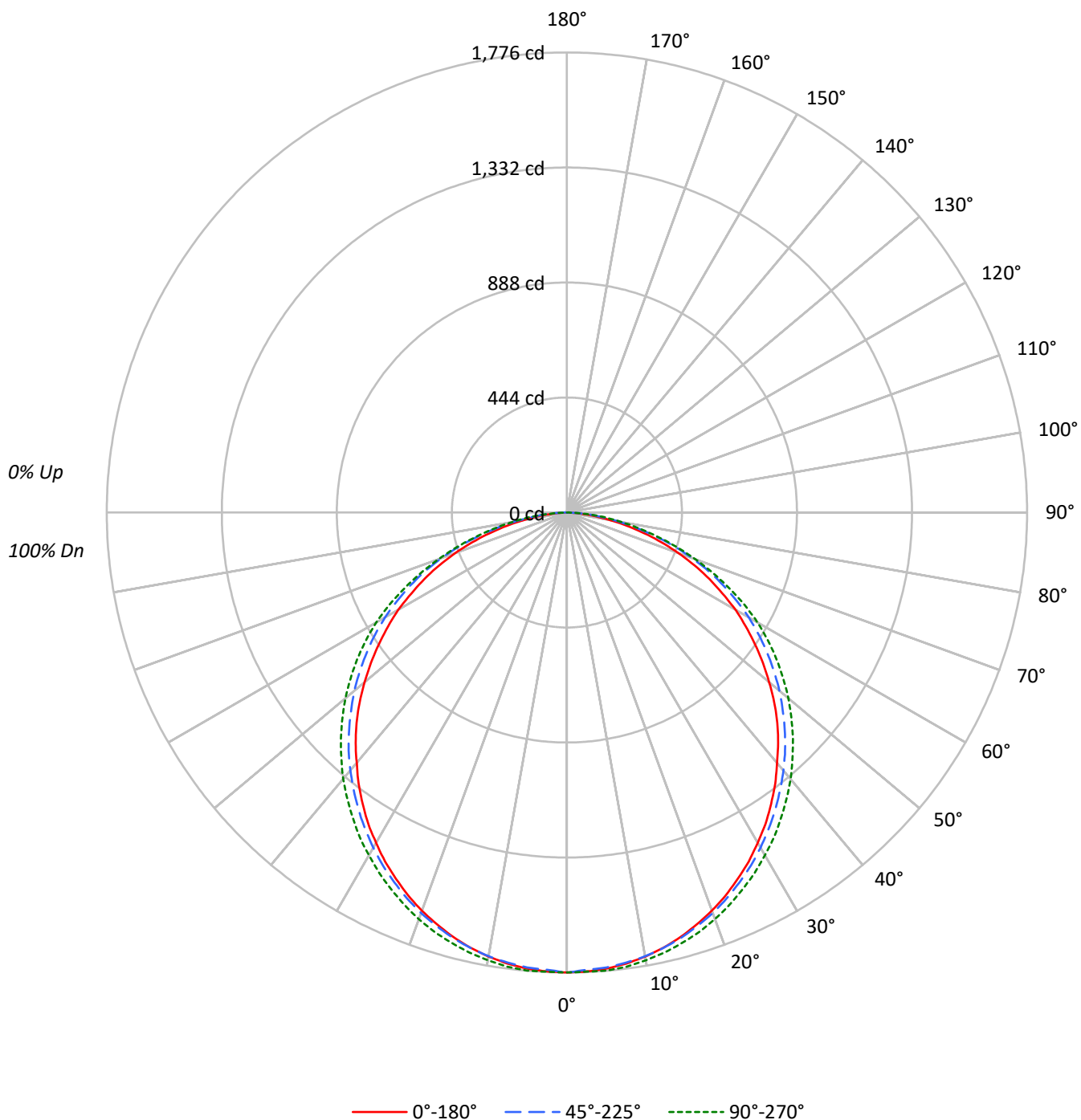
Lumens per Lamp: N/A
Luminaire Lumens: 5130.0 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	5983	5983	5983
5°	5979	5964	6004
10°	5957	5952	6005
15°	5918	5931	6001
20°	5866	5901	5991
25°	5803	5858	5967
30°	5730	5814	5946
35°	5651	5766	5924
40°	5552	5717	5909
45°	5472	5666	5877
50°	5342	5613	5849
55°	5205	5539	5804
60°	5064	5458	5727
65°	4837	5314	5509
70°	4514	5075	5198
75°	4022	4598	4734
80°	3283	3986	4188
85°	2173	3170	3398

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5877 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	3.3
10°-20°	481.8	9.4
20°-30°	729.4	14.2
30°-40°	880.4	17.2
40°-50°	919.4	17.9
50°-60°	841.1	16.4
60°-70°	650.2	12.7
70°-80°	368.1	7.2
80°-90°	91.4	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°	1379.3	26.9
0°-40°	2259.7	44.0
0°-60°	4020.2	78.4
0°-90°	5130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5130.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1776	1776	1776	1776	1776	
5°	1768	1780	1763	1765	1775	168
15°	1697	1711	1700	1708	1720	478
25°	1561	1581	1576	1590	1605	719
35°	1374	1393	1402	1425	1440	859
45°	1148	1170	1189	1219	1233	884
55°	886	913	943	972	988	792
65°	607	632	666	686	691	599
75°	309	336	353	362	364	328
85°	56	65	82	86	88	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1775.7	1775.7	1775.7	1775.7	1775.7
2.5°	1773.5	1786.1	1766.8	1770.5	1774.2
5°	1767.6	1780.1	1763.1	1764.6	1775.0
7.5°	1756.5	1770.5	1752.8	1755.8	1768.3
10°	1741.0	1755.0	1739.5	1742.5	1755.0
12.5°	1721.0	1735.1	1721.8	1726.2	1740.2
15°	1696.6	1711.4	1700.3	1708.5	1720.3
17.5°	1667.1	1685.6	1673.7	1686.3	1698.1
20°	1636.0	1654.5	1645.7	1656.7	1670.8
22.5°	1600.6	1619.1	1612.4	1624.2	1639.7
25°	1560.7	1580.6	1575.5	1590.2	1605.0
27.5°	1519.3	1538.5	1537.0	1553.3	1568.8
30°	1472.7	1493.4	1494.2	1513.4	1528.2
32.5°	1426.2	1444.7	1449.1	1470.5	1487.5
35°	1373.7	1392.9	1401.8	1425.4	1440.2
37.5°	1320.5	1341.9	1351.5	1377.4	1392.9
40°	1262.1	1286.5	1299.8	1327.2	1343.4
42.5°	1206.7	1228.9	1246.6	1274.0	1288.7
45°	1148.3	1170.5	1189.0	1219.3	1233.3
47.5°	1085.5	1109.9	1129.9	1159.4	1174.9
50°	1019.0	1045.6	1070.7	1099.6	1115.8
52.5°	953.3	979.1	1007.9	1036.0	1052.3
55°	886.0	912.6	942.9	972.5	988.0
57.5°	818.0	844.6	877.9	904.5	920.7
60°	751.5	775.9	809.9	836.5	849.8
62.5°	676.1	704.2	739.0	765.6	772.9
65°	606.7	631.8	666.5	686.5	690.9
67.5°	532.8	557.9	592.6	603.7	610.4
70°	458.2	484.8	515.1	522.4	527.6
72.5°	382.8	410.1	433.8	441.2	445.6
75°	308.9	335.5	353.2	362.1	363.6
77.5°	237.2	261.6	277.8	288.2	288.2
80°	169.2	187.7	205.4	216.5	215.8
82.5°	107.9	121.9	140.4	148.5	153.7
85°	56.2	65.0	82.0	85.7	87.9
87.5°	17.7	22.9	29.6	24.4	23.6
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	17.90	19.55	18.26	19.86	20.17	18.44	20.09	18.80	20.40	20.72
	3H	19.67	21.16	20.04	21.49	21.85	20.30	21.79	20.67	22.12	22.48
	4H	20.29	21.70	20.69	22.05	22.42	20.97	22.38	21.37	22.72	23.10
	6H	20.70	22.00	21.11	22.37	22.76	21.45	22.76	21.86	23.12	23.51
	8H	20.80	22.05	21.22	22.43	22.83	21.61	22.86	22.03	23.25	23.65
	12H	20.85	22.04	21.28	22.42	22.85	21.71	22.90	22.14	23.29	23.71
4H	2H	18.63	20.04	19.03	20.39	20.76	19.06	20.46	19.45	20.81	21.19
	3H	20.63	21.81	21.04	22.21	22.60	21.13	22.32	21.54	22.71	23.11
	4H	21.38	22.45	21.81	22.86	23.29	21.94	23.01	22.37	23.42	23.85
	6H	21.90	22.83	22.35	23.27	23.72	22.55	23.49	23.00	23.93	24.38
	8H	22.03	22.91	22.49	23.35	23.81	22.75	23.63	23.21	24.07	24.54
	12H	22.11	22.89	22.59	23.37	23.84	22.89	23.68	23.37	24.15	24.62
8H	4H	21.73	22.61	22.19	23.05	23.51	22.23	23.10	22.68	23.54	24.01
	6H	22.36	23.09	22.86	23.58	24.05	22.96	23.69	23.45	24.17	24.65
	8H	22.56	23.21	23.07	23.72	24.20	23.23	23.88	23.74	24.39	24.87
	12H	22.68	23.26	23.19	23.75	24.31	23.44	24.01	23.94	24.50	25.06
12H	4H	21.77	22.56	22.25	23.03	23.50	22.25	23.04	22.73	23.51	23.98
	6H	22.43	23.08	22.94	23.59	24.07	23.00	23.65	23.51	24.16	24.64
	8H	22.68	23.25	23.18	23.74	24.30	23.33	23.90	23.83	24.39	24.95