

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: P1585807

Luminaire Tested: 14CZSP-SB-54VHE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585807
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-54VHE-L940
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 5200 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

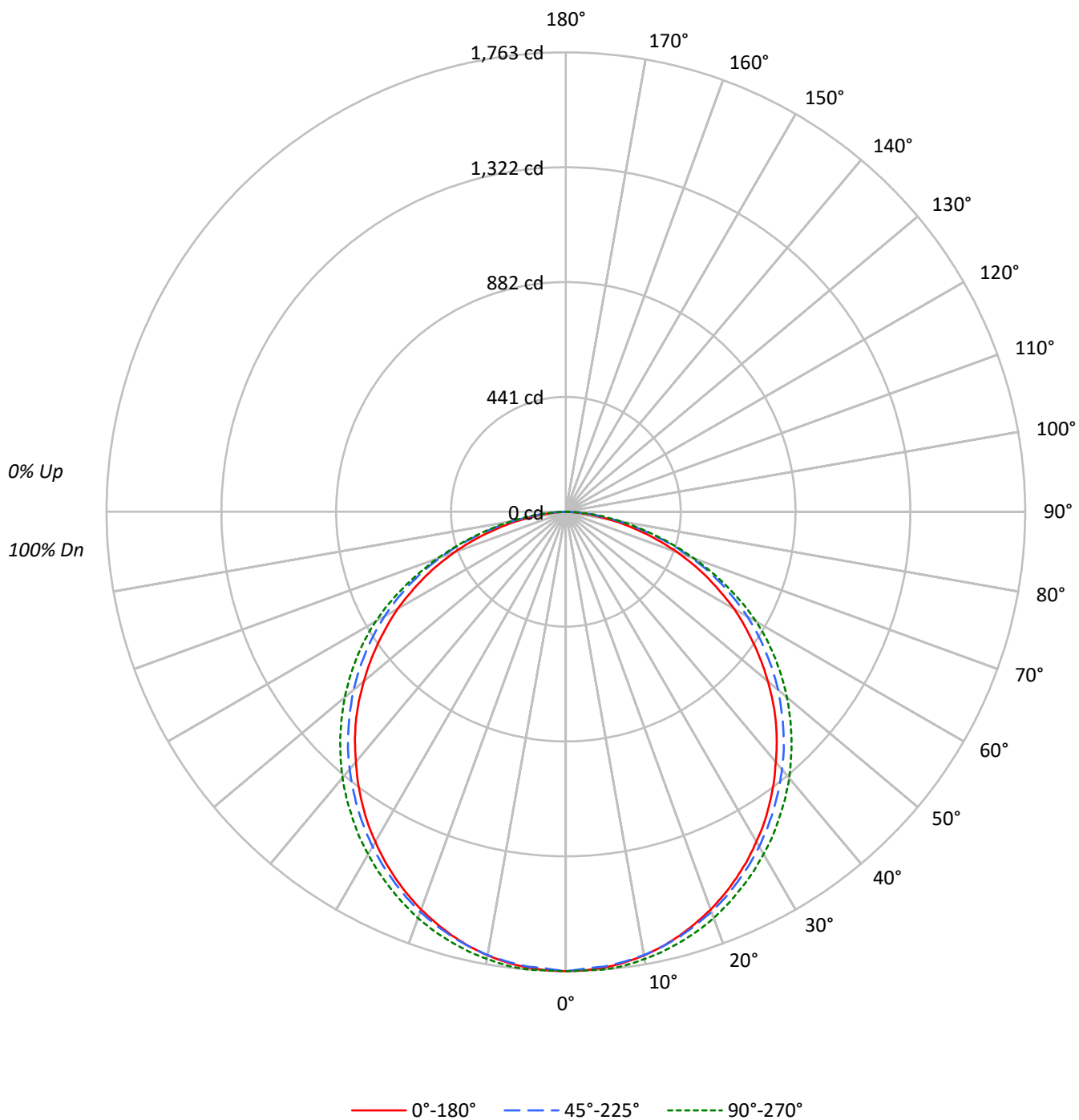
Lumens per Lamp: N/A
Luminaire Lumens: 5094.0 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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°	5941	5941	5941
5°	5937	5922	5962
10°	5915	5910	5963
15°	5877	5890	5959
20°	5826	5860	5949
25°	5762	5816	5925
30°	5690	5773	5904
35°	5611	5726	5883
40°	5513	5677	5868
45°	5434	5626	5836
50°	5305	5573	5808
55°	5169	5500	5764
60°	5029	5420	5686
65°	4803	5277	5470
70°	4482	5038	5161
75°	3993	4566	4700
80°	3260	3959	4158
85°	2157	3147	3375

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5836 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.0	3.3
10°-20°	478.4	9.4
20°-30°	724.3	14.2
30°-40°	874.2	17.2
40°-50°	913.0	17.9
50°-60°	835.2	16.4
60°-70°	645.7	12.7
70°-80°	365.5	7.2
80°-90°	90.8	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°	1369.6	26.9
0°-40°	2243.9	44.0
0°-60°	3992.0	78.4
0°-90°	5094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1763	1763	1763	1763	1763	
5°	1755	1768	1751	1752	1762	167
15°	1685	1699	1688	1696	1708	475
25°	1550	1570	1564	1579	1594	714
35°	1364	1383	1392	1415	1430	853
45°	1140	1162	1181	1211	1225	878
55°	880	906	936	966	981	787
65°	602	627	662	682	686	595
75°	307	333	351	360	361	325
85°	56	65	81	85	87	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1763.2	1763.2	1763.2	1763.2	1763.2
2.5°	1761.0	1773.5	1754.4	1758.1	1761.8
5°	1755.2	1767.7	1750.8	1752.2	1762.5
7.5°	1744.2	1758.1	1740.5	1743.4	1755.9
10°	1728.8	1742.7	1727.3	1730.2	1742.7
12.5°	1709.0	1722.9	1709.7	1714.1	1728.0
15°	1684.7	1699.4	1688.4	1696.5	1708.2
17.5°	1655.4	1673.7	1662.0	1674.5	1686.2
20°	1624.6	1642.9	1634.1	1645.1	1659.1
22.5°	1589.3	1607.7	1601.1	1612.8	1628.2
25°	1549.7	1569.5	1564.4	1579.1	1593.7
27.5°	1508.6	1527.7	1526.2	1542.4	1557.8
30°	1462.4	1482.9	1483.7	1502.8	1517.4
32.5°	1416.2	1434.5	1438.9	1460.2	1477.1
35°	1364.1	1383.2	1392.0	1415.4	1430.1
37.5°	1311.2	1332.5	1342.1	1367.7	1383.2
40°	1253.3	1277.5	1290.7	1317.9	1334.0
42.5°	1198.2	1220.3	1237.9	1265.0	1279.7
45°	1140.3	1162.3	1180.6	1210.7	1224.7
47.5°	1077.9	1102.1	1121.9	1151.3	1166.7
50°	1011.9	1038.3	1063.2	1091.8	1108.0
52.5°	946.6	972.2	1000.9	1028.7	1044.9
55°	879.8	906.2	936.3	965.6	981.1
57.5°	812.3	838.7	871.7	898.1	914.3
60°	746.2	770.5	804.2	830.6	843.8
62.5°	671.4	699.3	733.8	760.2	767.5
65°	602.4	627.4	661.9	681.7	686.1
67.5°	529.0	554.0	588.5	599.5	606.1
70°	454.9	481.4	511.4	518.8	523.9
72.5°	380.1	407.2	430.7	438.1	442.5
75°	306.7	333.1	350.7	359.5	361.0
77.5°	235.5	259.8	275.9	286.2	286.2
80°	168.0	186.4	204.0	215.0	214.3
82.5°	107.1	121.1	139.4	147.5	152.6
85°	55.8	64.6	81.4	85.1	87.3
87.5°	17.6	22.7	29.4	24.2	23.5
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	17.87	19.52	18.24	19.84	20.15	18.41	20.06	18.78	20.38	20.69
	3H	19.64	21.14	20.02	21.46	21.82	20.27	21.77	20.65	22.09	22.45
	4H	20.27	21.68	20.67	22.02	22.40	20.94	22.35	21.34	22.70	23.07
	6H	20.67	21.98	21.08	22.34	22.73	21.43	22.74	21.84	23.10	23.49
	8H	20.77	22.02	21.20	22.41	22.81	21.59	22.83	22.01	23.22	23.62
	12H	20.82	22.02	21.25	22.40	22.83	21.68	22.88	22.11	23.26	23.69
4H	2H	18.61	20.02	19.01	20.37	20.74	19.03	20.44	19.43	20.79	21.16
	3H	20.60	21.78	21.01	22.18	22.58	21.11	22.29	21.52	22.69	23.09
	4H	21.35	22.42	21.78	22.83	23.27	21.91	22.98	22.34	23.39	23.83
	6H	21.87	22.81	22.32	23.25	23.70	22.53	23.46	22.98	23.90	24.36
	8H	22.01	22.88	22.47	23.32	23.79	22.73	23.60	23.19	24.05	24.51
	12H	22.08	22.87	22.56	23.34	23.81	22.87	23.66	23.35	24.13	24.60
8H	4H	21.71	22.58	22.17	23.02	23.49	22.20	23.08	22.66	23.52	23.98
	6H	22.34	23.07	22.83	23.55	24.03	22.93	23.66	23.43	24.15	24.62
	8H	22.53	23.19	23.04	23.69	24.18	23.21	23.86	23.72	24.36	24.85
	12H	22.66	23.23	23.16	23.72	24.28	23.41	23.99	23.92	24.48	25.04
12H	4H	21.75	22.53	22.23	23.01	23.48	22.23	23.01	22.70	23.49	23.96
	6H	22.40	23.06	22.91	23.56	24.05	22.98	23.63	23.48	24.13	24.62
	8H	22.65	23.23	23.16	23.72	24.28	23.30	23.88	23.81	24.37	24.93