

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: P1585802

Luminaire Tested: 14CZSP-SB-54VHE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585802
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-54VHE-L930-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 5200 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

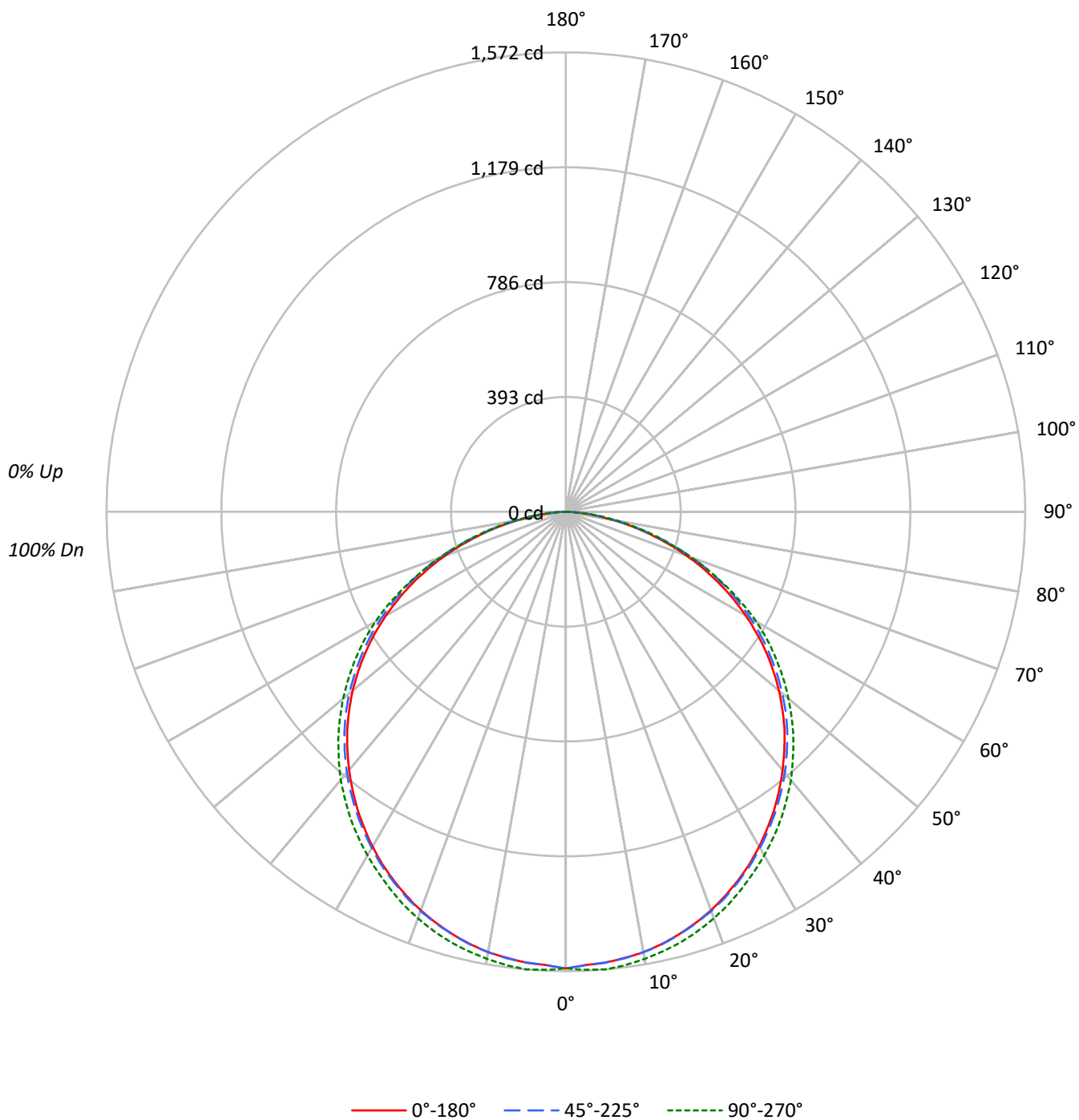
Lumens per Lamp: N/A
Luminaire Lumens: 4611.0 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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

TEST NUMBER: P1585802

CATALOG NUMBER: 14CZSP-SB-54VHE-L930-S

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°	5265	5265	5265
5°	5240	5237	5316
10°	5237	5235	5315
15°	5222	5226	5318
20°	5205	5216	5309
25°	5179	5192	5292
30°	5148	5170	5283
35°	5115	5146	5280
40°	5075	5128	5270
45°	5044	5107	5249
50°	4993	5071	5215
55°	4915	5006	5164
60°	4796	4920	5073
65°	4616	4791	4841
70°	4341	4543	4514
75°	3898	4063	4091
80°	3219	3384	3563
85°	2157	2513	2648

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5249 cd/sqm

TEST NUMBER: P1585802

CATALOG NUMBER: 14CZSP-SB-54VHE-L930-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	3.2
10°-20°	425.7	9.2
20°-30°	648.2	14.1
30°-40°	788.9	17.1
40°-50°	831.7	18.0
50°-60°	766.0	16.6
60°-70°	591.6	12.8
70°-80°	331.1	7.2
80°-90°	79.8	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°	1222.0	26.5
0°-40°	2010.9	43.6
0°-60°	3608.6	78.3
0°-90°	4611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4611.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1562	1562	1562	1562	1562	
5°	1549	1571	1548	1550	1572	147
15°	1497	1517	1498	1507	1524	423
25°	1393	1413	1397	1406	1423	642
35°	1243	1262	1251	1267	1284	778
45°	1058	1073	1072	1088	1101	816
55°	837	851	852	870	879	747
65°	579	596	601	606	607	572
75°	299	318	312	311	314	317
85°	56	61	65	73	68	72
90°	0	0	0	0	0	

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CATALOG NUMBER: 14CZSP-SB-54VHE-L930-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1562.5	1562.5	1562.5	1562.5	1562.5
2.5°	1552.6	1575.2	1552.6	1556.1	1568.9
5°	1549.1	1571.0	1548.4	1550.5	1571.7
7.5°	1539.9	1562.5	1541.3	1544.1	1564.6
10°	1530.7	1551.2	1530.0	1533.6	1553.3
12.5°	1515.2	1536.4	1516.6	1520.8	1540.6
15°	1496.8	1517.3	1498.2	1506.7	1524.4
17.5°	1475.7	1495.4	1477.1	1487.0	1503.9
20°	1451.6	1470.7	1454.5	1461.5	1480.6
22.5°	1423.4	1443.2	1427.6	1434.0	1454.5
25°	1393.0	1412.8	1396.6	1405.8	1423.4
27.5°	1359.9	1378.9	1364.8	1376.1	1391.6
30°	1323.1	1341.5	1328.8	1342.2	1357.7
32.5°	1283.6	1303.4	1290.7	1306.2	1321.7
35°	1243.4	1261.7	1251.1	1266.7	1283.6
37.5°	1199.6	1217.2	1209.5	1225.7	1241.2
40°	1153.7	1173.5	1165.7	1182.6	1198.2
42.5°	1106.4	1125.5	1119.1	1136.7	1150.2
45°	1058.4	1073.2	1071.8	1088.0	1101.4
47.5°	1005.4	1023.8	1021.0	1037.2	1049.2
50°	952.5	967.3	967.3	982.8	994.8
52.5°	895.3	910.1	910.1	928.5	938.3
55°	836.7	850.8	852.2	869.9	879.0
57.5°	774.5	789.4	792.2	809.8	818.3
60°	711.7	725.8	730.1	747.7	752.7
62.5°	646.0	663.0	665.1	679.2	682.0
65°	579.0	595.9	600.9	606.5	607.2
67.5°	510.5	528.1	533.1	533.1	533.1
70°	440.6	456.8	461.1	458.2	458.2
72.5°	370.0	387.6	385.5	382.7	384.1
75°	299.4	317.7	312.1	311.4	314.2
77.5°	231.6	249.2	240.1	245.7	246.4
80°	165.9	179.3	174.4	182.9	183.6
82.5°	106.6	115.1	116.5	123.6	121.4
85°	55.8	61.4	65.0	72.7	68.5
87.5°	17.7	23.3	21.2	24.7	19.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1585802

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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	17.81	19.46	18.17	19.78	20.09	18.02	19.68	18.39	19.99	20.31
	3H	19.63	21.13	20.00	21.45	21.81	19.82	21.32	20.20	21.65	22.01
	4H	20.27	21.69	20.67	22.03	22.41	20.46	21.87	20.86	22.22	22.59
	6H	20.70	22.01	21.11	22.38	22.77	20.91	22.22	21.32	22.59	22.98
	8H	20.81	22.06	21.23	22.45	22.85	21.05	22.30	21.47	22.69	23.08
	12H	20.86	22.06	21.29	22.44	22.87	21.12	22.32	21.55	22.70	23.13
4H	2H	18.49	19.90	18.88	20.24	20.62	18.65	20.07	19.05	20.41	20.79
	3H	20.53	21.71	20.94	22.11	22.51	20.67	21.85	21.08	22.25	22.65
	4H	21.31	22.38	21.74	22.79	23.23	21.43	22.50	21.86	22.91	23.35
	6H	21.86	22.79	22.31	23.23	23.69	22.00	22.94	22.45	23.38	23.83
	8H	22.00	22.88	22.46	23.32	23.79	22.18	23.05	22.64	23.49	23.96
	12H	22.09	22.87	22.56	23.35	23.82	22.29	23.08	22.77	23.55	24.02
8H	4H	21.61	22.49	22.07	22.93	23.40	21.72	22.60	22.18	23.04	23.51
	6H	22.27	23.00	22.77	23.49	23.96	22.40	23.13	22.90	23.62	24.09
	8H	22.48	23.13	22.99	23.64	24.12	22.64	23.30	23.15	23.80	24.29
	12H	22.61	23.19	23.12	23.68	24.24	22.82	23.40	23.32	23.89	24.45
12H	4H	21.64	22.43	22.12	22.91	23.38	21.75	22.54	22.23	23.01	23.48
	6H	22.32	22.97	22.83	23.48	23.96	22.44	23.10	22.95	23.61	24.09
	8H	22.57	23.15	23.08	23.64	24.20	22.73	23.31	23.24	23.80	24.36