

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: P1585803

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585803
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-L930
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 5200 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

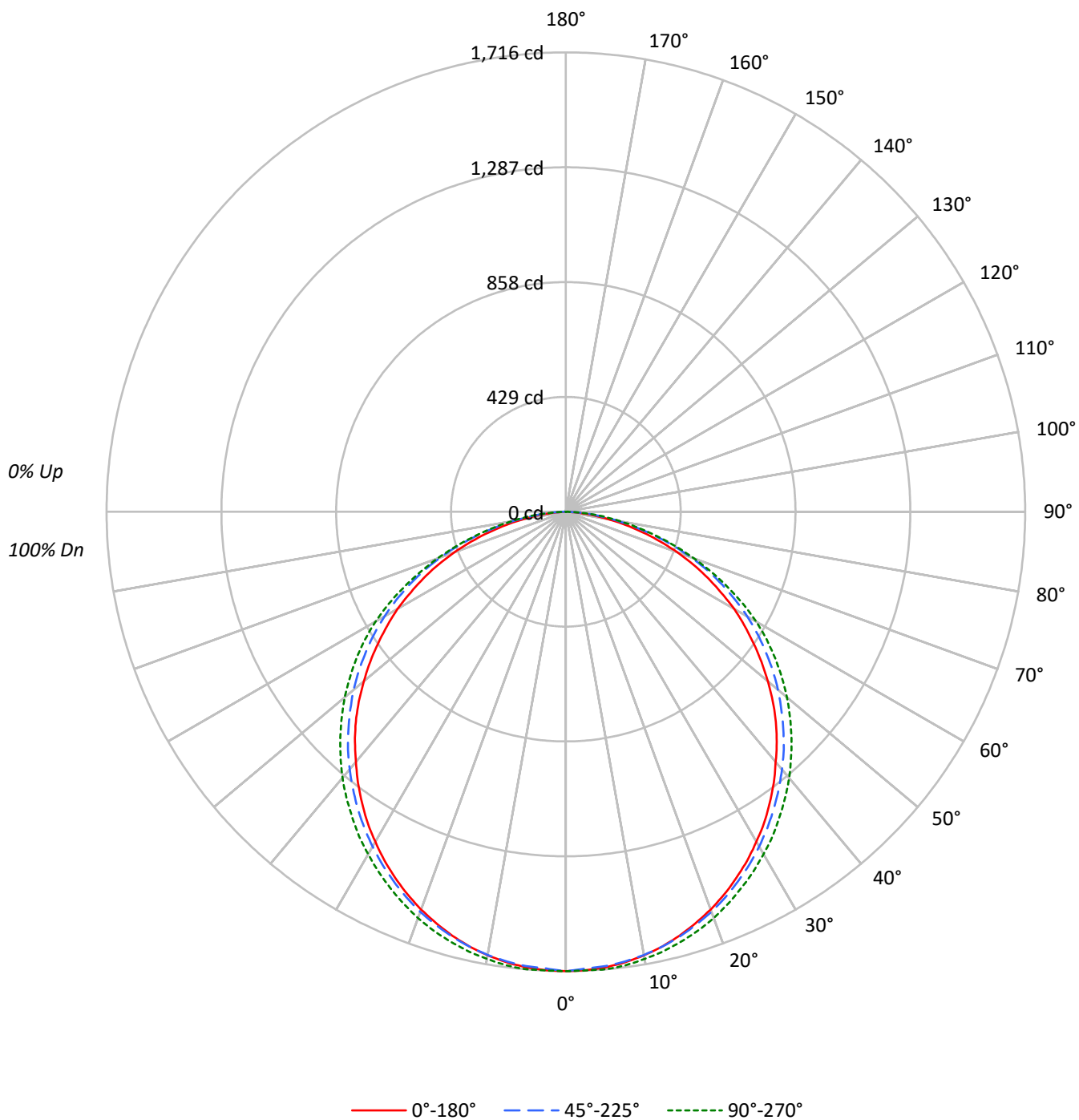
Lumens per Lamp: N/A
Luminaire Lumens: 4958.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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
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	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5783	5783	5783
5°	5778	5764	5803
10°	5757	5752	5804
15°	5720	5733	5800
20°	5670	5703	5790
25°	5608	5661	5767
30°	5538	5619	5746
35°	5461	5573	5726
40°	5365	5526	5711
45°	5289	5476	5680
50°	5163	5425	5653
55°	5030	5354	5610
60°	4895	5275	5535
65°	4675	5136	5324
70°	4362	4904	5024
75°	3886	4445	4575
80°	3173	3852	4046
85°	2099	3066	3286

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5680 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.5	3.3
10°-20°	465.6	9.4
20°-30°	704.9	14.2
30°-40°	850.9	17.2
40°-50°	888.6	17.9
50°-60°	812.9	16.4
60°-70°	628.4	12.7
70°-80°	355.8	7.2
80°-90°	88.4	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°	1333.1	26.9
0°-40°	2183.9	44.0
0°-60°	3885.4	78.4
0°-90°	4958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4958.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1716	1716	1716	1716	1716	
5°	1708	1720	1704	1706	1716	162
15°	1640	1654	1643	1651	1663	462
25°	1508	1528	1523	1537	1551	695
35°	1328	1346	1355	1378	1392	830
45°	1110	1131	1149	1178	1192	855
55°	856	882	911	940	955	766
65°	586	611	644	664	668	579
75°	298	324	341	350	351	317
85°	54	63	79	83	85	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1716.2	1716.2	1716.2	1716.2	1716.2
2.5°	1714.0	1726.2	1707.6	1711.2	1714.7
5°	1708.3	1720.5	1704.0	1705.5	1715.5
7.5°	1697.6	1711.2	1694.0	1696.9	1709.0
10°	1682.6	1696.2	1681.2	1684.0	1696.2
12.5°	1663.3	1676.9	1664.0	1668.3	1681.9
15°	1639.8	1654.0	1643.3	1651.2	1662.6
17.5°	1611.2	1629.0	1617.6	1629.8	1641.2
20°	1581.2	1599.0	1590.5	1601.2	1614.8
22.5°	1546.9	1564.8	1558.3	1569.8	1584.8
25°	1508.3	1527.6	1522.6	1536.9	1551.2
27.5°	1468.4	1486.9	1485.5	1501.2	1516.2
30°	1423.4	1443.4	1444.1	1462.6	1476.9
32.5°	1378.4	1396.2	1400.5	1421.2	1437.6
35°	1327.7	1346.2	1354.8	1377.7	1391.9
37.5°	1276.2	1297.0	1306.2	1331.2	1346.2
40°	1219.8	1243.4	1256.2	1282.7	1298.4
42.5°	1166.3	1187.7	1204.8	1231.2	1245.5
45°	1109.8	1131.3	1149.1	1178.4	1192.0
47.5°	1049.1	1072.7	1092.0	1120.5	1135.5
50°	984.9	1010.6	1034.8	1062.7	1078.4
52.5°	921.3	946.3	974.1	1001.3	1017.0
55°	856.3	882.0	911.3	939.9	954.9
57.5°	790.6	816.3	848.4	874.2	889.9
60°	726.3	749.9	782.7	808.5	821.3
62.5°	653.5	680.6	714.2	739.9	747.0
65°	586.3	610.6	644.2	663.5	667.8
67.5°	514.9	539.2	572.8	583.5	589.9
70°	442.8	468.5	497.8	504.9	509.9
72.5°	369.9	396.4	419.2	426.4	430.7
75°	298.5	324.2	341.4	349.9	351.4
77.5°	229.3	252.8	268.5	278.5	278.5
80°	163.5	181.4	198.5	209.3	208.5
82.5°	104.3	117.8	135.7	143.6	148.5
85°	54.3	62.8	79.3	82.8	85.0
87.5°	17.1	22.1	28.6	23.6	22.9
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	17.78	19.43	18.14	19.74	20.06	18.32	19.97	18.68	20.28	20.60
	3H	19.55	21.04	19.93	21.37	21.73	20.18	21.67	20.55	22.00	22.36
	4H	20.17	21.58	20.57	21.93	22.30	20.85	22.26	21.25	22.61	22.98
	6H	20.58	21.88	20.99	22.25	22.64	21.34	22.64	21.75	23.01	23.40
	8H	20.68	21.93	21.10	22.32	22.71	21.49	22.74	21.92	23.13	23.53
	12H	20.73	21.92	21.16	22.30	22.73	21.59	22.79	22.02	23.17	23.60
4H	2H	18.52	19.92	18.91	20.27	20.65	18.94	20.35	19.34	20.69	21.07
	3H	20.51	21.69	20.92	22.09	22.49	21.02	22.20	21.43	22.59	22.99
	4H	21.26	22.33	21.69	22.74	23.17	21.82	22.89	22.25	23.30	23.73
	6H	21.78	22.71	22.23	23.15	23.61	22.43	23.37	22.89	23.81	24.26
	8H	21.91	22.79	22.37	23.23	23.69	22.64	23.51	23.09	23.95	24.42
	12H	21.99	22.77	22.47	23.25	23.72	22.77	23.56	23.25	24.04	24.50
8H	4H	21.61	22.49	22.07	22.93	23.39	22.11	22.98	22.57	23.42	23.89
	6H	22.24	22.97	22.74	23.46	23.93	22.84	23.57	23.33	24.05	24.53
	8H	22.44	23.09	22.95	23.60	24.08	23.11	23.76	23.62	24.27	24.76
	12H	22.56	23.14	23.07	23.63	24.19	23.32	23.90	23.82	24.39	24.95
12H	4H	21.65	22.44	22.13	22.92	23.38	22.13	22.92	22.61	23.39	23.86
	6H	22.31	22.96	22.82	23.47	23.95	22.88	23.53	23.39	24.04	24.53
	8H	22.56	23.13	23.06	23.62	24.18	23.21	23.79	23.71	24.28	24.84