

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: P1585808

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585808
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-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 5200 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

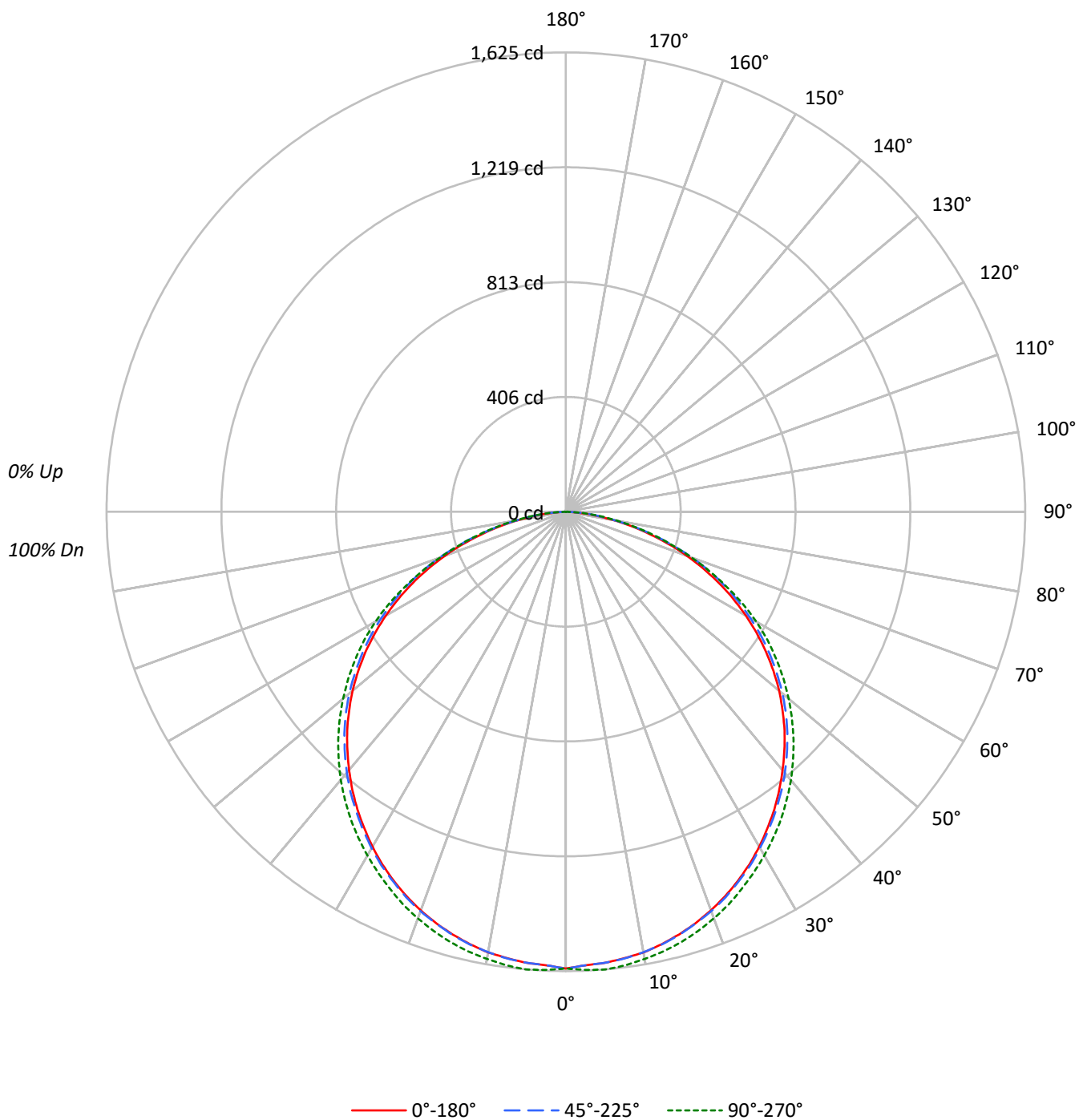
Lumens per Lamp: N/A
Luminaire Lumens: 4768.0 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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	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°	5444	5444	5444
5°	5418	5416	5497
10°	5416	5413	5496
15°	5399	5405	5499
20°	5383	5393	5490
25°	5356	5369	5472
30°	5323	5346	5463
35°	5289	5322	5460
40°	5248	5302	5450
45°	5215	5281	5427
50°	5163	5243	5393
55°	5083	5177	5340
60°	4959	5087	5245
65°	4773	4954	5006
70°	4489	4697	4668
75°	4031	4201	4230
80°	3330	3499	3683
85°	2231	2598	2737

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5427 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	3.2
10°-20°	440.2	9.2
20°-30°	670.3	14.1
30°-40°	815.8	17.1
40°-50°	860.0	18.0
50°-60°	792.1	16.6
60°-70°	611.8	12.8
70°-80°	342.3	7.2
80°-90°	82.5	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°	1263.6	26.5
0°-40°	2079.3	43.6
0°-60°	3731.4	78.3
0°-90°	4768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4768.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1616	1616	1616	1616	1616	
5°	1602	1624	1601	1603	1625	152
15°	1548	1569	1549	1558	1576	437
25°	1440	1461	1444	1454	1472	664
35°	1286	1305	1294	1310	1327	804
45°	1094	1110	1108	1125	1139	843
55°	865	880	881	900	909	772
65°	599	616	621	627	628	591
75°	310	328	323	322	325	328
85°	58	64	67	75	71	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1605.5	1628.8	1605.5	1609.1	1622.3
5°	1601.8	1624.5	1601.1	1603.3	1625.2
7.5°	1592.3	1615.7	1593.8	1596.7	1617.9
10°	1582.8	1604.0	1582.1	1585.8	1606.2
12.5°	1566.8	1588.7	1568.2	1572.6	1593.1
15°	1547.8	1569.0	1549.3	1558.0	1576.3
17.5°	1525.9	1546.3	1527.4	1537.6	1555.1
20°	1501.1	1520.8	1504.0	1511.3	1531.0
22.5°	1471.9	1492.3	1476.3	1482.8	1504.0
25°	1440.5	1460.9	1444.1	1453.6	1471.9
27.5°	1406.2	1425.9	1411.3	1423.0	1439.0
30°	1368.2	1387.2	1374.0	1387.9	1404.0
32.5°	1327.3	1347.8	1334.6	1350.7	1366.7
35°	1285.7	1304.7	1293.7	1309.8	1327.3
37.5°	1240.4	1258.7	1250.7	1267.4	1283.5
40°	1193.0	1213.4	1205.4	1222.9	1239.0
42.5°	1144.1	1163.8	1157.2	1175.5	1189.3
45°	1094.4	1109.7	1108.3	1125.1	1138.9
47.5°	1039.7	1058.6	1055.7	1072.5	1084.9
50°	984.9	1000.2	1000.2	1016.3	1028.7
52.5°	925.8	941.1	941.1	960.1	970.3
55°	865.2	879.8	881.2	899.5	909.0
57.5°	800.9	816.2	819.2	837.4	846.2
60°	735.9	750.5	754.9	773.2	778.3
62.5°	668.0	685.6	687.7	702.4	705.3
65°	598.7	616.2	621.3	627.2	627.9
67.5°	527.9	546.1	551.2	551.2	551.2
70°	455.6	472.4	476.8	473.8	473.8
72.5°	382.6	400.8	398.6	395.7	397.2
75°	309.6	328.5	322.7	322.0	324.9
77.5°	239.5	257.7	248.2	254.1	254.8
80°	171.6	185.4	180.3	189.1	189.8
82.5°	110.2	119.0	120.5	127.8	125.6
85°	57.7	63.5	67.2	75.2	70.8
87.5°	18.3	24.1	21.9	25.6	19.7
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	17.92	19.58	18.29	19.89	20.21	18.14	19.79	18.50	20.11	20.42
	3H	19.74	21.24	20.12	21.57	21.93	19.94	21.44	20.32	21.76	22.12
	4H	20.39	21.80	20.79	22.15	22.52	20.58	21.99	20.97	22.34	22.71
	6H	20.82	22.13	21.23	22.49	22.88	21.03	22.34	21.44	22.70	23.09
	8H	20.93	22.18	21.35	22.57	22.97	21.16	22.41	21.59	22.80	23.20
	12H	20.98	22.18	21.41	22.56	22.99	21.24	22.44	21.67	22.82	23.25
4H	2H	18.60	20.01	19.00	20.36	20.74	18.77	20.18	19.17	20.53	20.91
	3H	20.64	21.83	21.05	22.22	22.62	20.78	21.97	21.19	22.37	22.77
	4H	21.42	22.49	21.85	22.91	23.34	21.54	22.62	21.97	23.03	23.46
	6H	21.97	22.91	22.42	23.35	23.80	22.12	23.05	22.57	23.49	23.95
	8H	22.12	23.00	22.58	23.44	23.90	22.29	23.17	22.75	23.61	24.08
	12H	22.20	22.99	22.68	23.46	23.93	22.41	23.19	22.89	23.67	24.14
8H	4H	21.73	22.61	22.19	23.05	23.51	21.84	22.71	22.30	23.16	23.62
	6H	22.39	23.12	22.88	23.61	24.08	22.52	23.25	23.01	23.74	24.21
	8H	22.59	23.25	23.10	23.75	24.24	22.76	23.41	23.27	23.92	24.40
	12H	22.73	23.31	23.23	23.80	24.36	22.94	23.51	23.44	24.00	24.56
12H	4H	21.76	22.55	22.24	23.02	23.49	21.87	22.65	22.35	23.13	23.60
	6H	22.43	23.09	22.94	23.59	24.08	22.56	23.22	23.07	23.72	24.21
	8H	22.69	23.27	23.20	23.76	24.32	22.85	23.43	23.36	23.92	24.48