

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: P1585804

Luminaire Tested: 14CZSP-SB-54VHE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585804
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-L935-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 5200 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

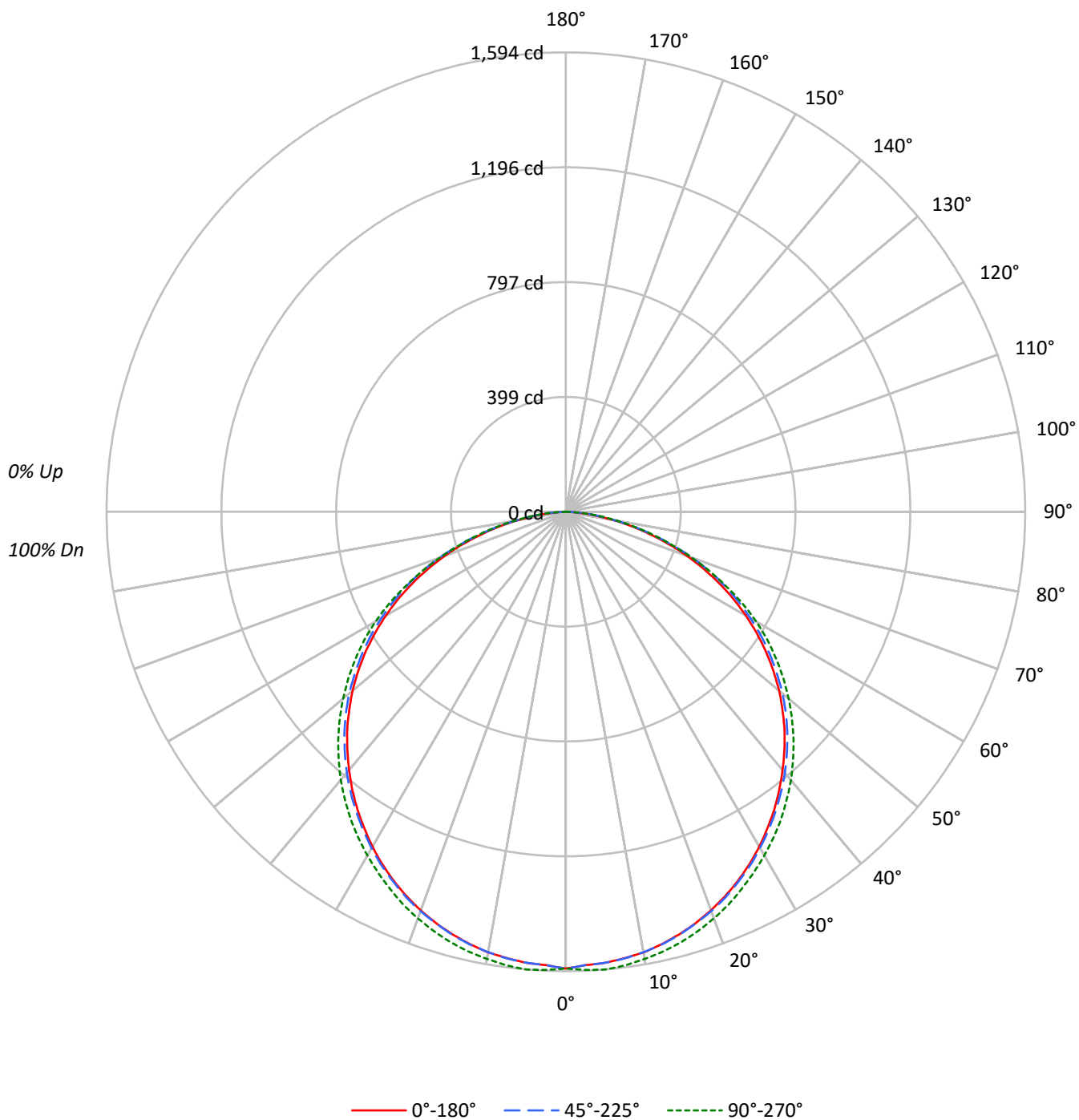
Lumens per Lamp: N/A
Luminaire Lumens: 4677.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	5340	5340	5340
5°	5315	5312	5392
10°	5312	5310	5391
15°	5297	5301	5394
20°	5280	5290	5385
25°	5253	5267	5368
30°	5222	5244	5358
35°	5188	5220	5356
40°	5147	5201	5346
45°	5116	5180	5324
50°	5064	5143	5290
55°	4986	5078	5238
60°	4865	4990	5145
65°	4683	4860	4911
70°	4403	4608	4579
75°	3954	4121	4149
80°	3266	3433	3613
85°	2188	2548	2687

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5324 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	3.2
10°-20°	431.8	9.2
20°-30°	657.5	14.1
30°-40°	800.2	17.1
40°-50°	843.6	18.0
50°-60°	777.0	16.6
60°-70°	600.1	12.8
70°-80°	335.8	7.2
80°-90°	80.9	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°	1239.5	26.5
0°-40°	2039.7	43.6
0°-60°	3660.2	78.3
0°-90°	4677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1571	1594	1570	1573	1594	149
15°	1518	1539	1520	1528	1546	429
25°	1413	1433	1417	1426	1444	651
35°	1261	1280	1269	1285	1302	789
45°	1074	1089	1087	1104	1117	827
55°	849	863	864	882	892	757
65°	587	604	610	615	616	580
75°	304	322	316	316	319	322
85°	57	62	66	74	70	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.9	1584.9	1584.9	1584.9	1584.9
2.5°	1574.8	1597.8	1574.8	1578.4	1591.3
5°	1571.3	1593.5	1570.5	1572.7	1594.2
7.5°	1561.9	1584.9	1563.4	1566.2	1587.0
10°	1552.6	1573.4	1551.9	1555.5	1575.6
12.5°	1536.9	1558.4	1538.3	1542.6	1562.7
15°	1518.3	1539.0	1519.7	1528.3	1546.2
17.5°	1496.8	1516.8	1498.2	1508.2	1525.4
20°	1472.4	1491.8	1475.3	1482.5	1501.8
22.5°	1443.8	1463.8	1448.1	1454.5	1475.3
25°	1413.0	1433.0	1416.6	1425.9	1443.8
27.5°	1379.3	1398.7	1384.3	1395.8	1411.6
30°	1342.1	1360.7	1347.8	1361.4	1377.2
32.5°	1302.0	1322.0	1309.1	1324.9	1340.7
35°	1261.2	1279.8	1269.0	1284.8	1302.0
37.5°	1216.8	1234.7	1226.8	1243.3	1259.0
40°	1170.2	1190.3	1182.4	1199.6	1215.3
42.5°	1122.2	1141.6	1135.1	1153.0	1166.6
45°	1073.5	1088.6	1087.1	1103.6	1117.2
47.5°	1019.8	1038.4	1035.6	1052.0	1064.2
50°	966.1	981.1	981.1	996.9	1009.1
52.5°	908.1	923.1	923.1	941.8	951.8
55°	848.7	863.0	864.4	882.3	891.6
57.5°	785.6	800.7	803.5	821.4	830.0
60°	721.9	736.2	740.5	758.4	763.4
62.5°	655.3	672.5	674.6	688.9	691.8
65°	587.3	604.4	609.5	615.2	615.9
67.5°	517.8	535.7	540.7	540.7	540.7
70°	446.9	463.4	467.7	464.8	464.8
72.5°	375.3	393.2	391.0	388.2	389.6
75°	303.7	322.3	316.5	315.8	318.7
77.5°	234.9	252.8	243.5	249.2	249.9
80°	168.3	181.9	176.9	185.5	186.2
82.5°	108.1	116.7	118.2	125.3	123.2
85°	56.6	62.3	65.9	73.8	69.5
87.5°	17.9	23.6	21.5	25.1	19.3
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	17.86	19.51	18.22	19.83	20.14	18.07	19.73	18.44	20.04	20.36
	3H	19.68	21.18	20.05	21.50	21.86	19.87	21.37	20.25	21.70	22.06
	4H	20.32	21.74	20.72	22.08	22.46	20.51	21.92	20.91	22.27	22.64
	6H	20.75	22.06	21.16	22.42	22.82	20.96	22.27	21.37	22.64	23.03
	8H	20.86	22.11	21.28	22.50	22.90	21.09	22.35	21.52	22.73	23.13
	12H	20.91	22.11	21.34	22.49	22.92	21.17	22.37	21.60	22.75	23.18
4H	2H	18.53	19.95	18.93	20.29	20.67	18.70	20.12	19.10	20.46	20.84
	3H	20.58	21.76	20.98	22.16	22.56	20.72	21.90	21.13	22.30	22.70
	4H	21.36	22.43	21.79	22.84	23.28	21.48	22.55	21.91	22.96	23.40
	6H	21.91	22.84	22.36	23.28	23.74	22.05	22.99	22.50	23.43	23.88
	8H	22.05	22.93	22.51	23.37	23.83	22.22	23.10	22.68	23.54	24.01
	12H	22.13	22.92	22.61	23.40	23.87	22.34	23.13	22.82	23.60	24.07
8H	4H	21.66	22.54	22.12	22.98	23.45	21.77	22.65	22.23	23.09	23.55
	6H	22.32	23.05	22.81	23.54	24.01	22.45	23.18	22.94	23.67	24.14
	8H	22.53	23.18	23.04	23.69	24.17	22.69	23.34	23.20	23.85	24.34
	12H	22.66	23.24	23.17	23.73	24.29	22.87	23.45	23.37	23.94	24.50
12H	4H	21.69	22.48	22.17	22.96	23.43	21.80	22.59	22.28	23.06	23.53
	6H	22.37	23.02	22.88	23.53	24.01	22.49	23.15	23.00	23.65	24.14
	8H	22.62	23.20	23.13	23.69	24.25	22.78	23.36	23.29	23.85	24.41