

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: P1585805

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585805
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-L935
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 5200 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

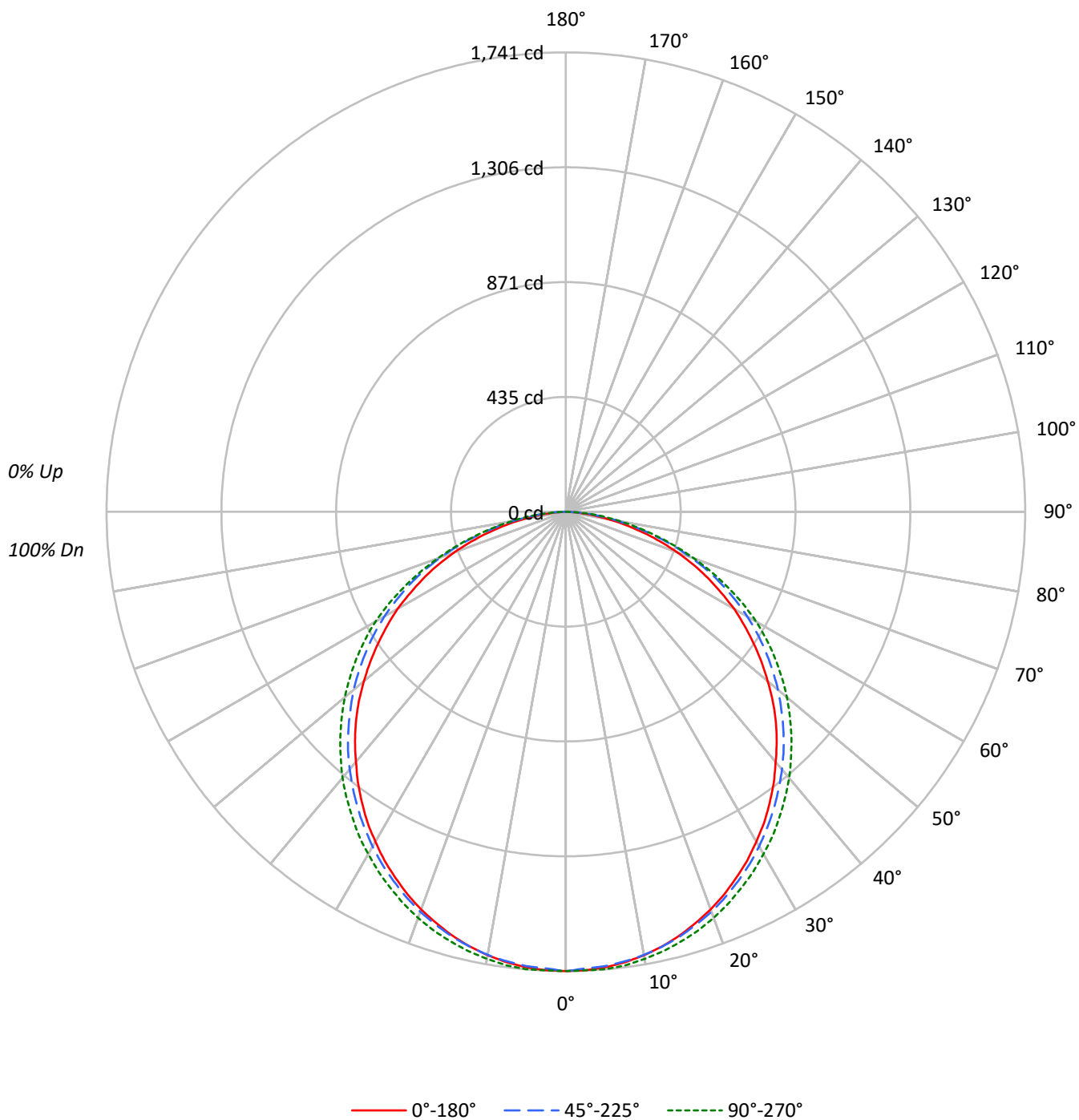
Lumens per Lamp: N/A
Luminaire Lumens: 5029.0 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1585805

CATALOG NUMBER: 14CZSP-SB-54VHE-L935

Luminous Intensity Polar Plot



TEST NUMBER: P1585805

CATALOG NUMBER: 14CZSP-SB-54VHE-L935

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°	5865	5865	5865
5°	5861	5846	5885
10°	5840	5835	5887
15°	5802	5815	5883
20°	5751	5785	5873
25°	5688	5742	5850
30°	5617	5699	5829
35°	5540	5653	5808
40°	5442	5605	5793
45°	5364	5554	5761
50°	5237	5503	5734
55°	5103	5430	5690
60°	4965	5350	5614
65°	4742	5210	5400
70°	4425	4974	5095
75°	3942	4508	4640
80°	3219	3908	4104
85°	2130	3108	3333

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5761 cd/sqm

TEST NUMBER: P1585805

CATALOG NUMBER: 14CZSP-SB-54VHE-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	3.3
10°-20°	472.3	9.4
20°-30°	715.0	14.2
30°-40°	863.1	17.2
40°-50°	901.3	17.9
50°-60°	824.5	16.4
60°-70°	637.4	12.7
70°-80°	360.9	7.2
80°-90°	89.6	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°	1352.2	26.9
0°-40°	2215.2	44.0
0°-60°	3941.1	78.4
0°-90°	5029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5029.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1741	1741	1741	1741	1741	
5°	1733	1745	1728	1730	1740	165
15°	1663	1678	1667	1675	1686	469
25°	1530	1550	1544	1559	1573	705
35°	1347	1366	1374	1397	1412	842
45°	1126	1148	1166	1195	1209	867
55°	869	895	924	953	968	777
65°	595	619	653	673	677	587
75°	303	329	346	355	356	321
85°	55	64	80	84	86	71
90°	0	0	0	0	0	

TEST NUMBER: P1585805

CATALOG NUMBER: 14CZSP-SB-54VHE-L935

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1740.7	1740.7	1740.7	1740.7	1740.7
2.5°	1738.6	1750.9	1732.1	1735.7	1739.3
5°	1732.8	1745.1	1728.4	1729.9	1740.0
7.5°	1721.9	1735.7	1718.3	1721.2	1733.5
10°	1706.7	1720.5	1705.3	1708.2	1720.5
12.5°	1687.1	1700.9	1687.9	1692.2	1706.0
15°	1663.2	1677.7	1666.9	1674.8	1686.4
17.5°	1634.3	1652.4	1640.8	1653.1	1664.7
20°	1603.8	1621.9	1613.3	1624.1	1637.9
22.5°	1569.1	1587.2	1580.7	1592.2	1607.5
25°	1529.9	1549.5	1544.4	1558.9	1573.4
27.5°	1489.4	1508.2	1506.8	1522.7	1537.9
30°	1443.7	1464.0	1464.8	1483.6	1498.1
32.5°	1398.1	1416.2	1420.6	1441.6	1458.2
35°	1346.7	1365.5	1374.2	1397.4	1411.9
37.5°	1294.5	1315.5	1324.9	1350.3	1365.5
40°	1237.3	1261.2	1274.2	1301.0	1317.0
42.5°	1183.0	1204.7	1222.1	1248.9	1263.4
45°	1125.7	1147.5	1165.6	1195.3	1209.0
47.5°	1064.2	1088.1	1107.6	1136.6	1151.8
50°	999.0	1025.0	1049.7	1077.9	1093.9
52.5°	934.5	959.8	988.1	1015.6	1031.6
55°	868.6	894.6	924.3	953.3	968.5
57.5°	801.9	828.0	860.6	886.7	902.6
60°	736.7	760.6	793.9	820.0	833.1
62.5°	662.8	690.4	724.4	750.5	757.7
65°	594.7	619.4	653.4	673.0	677.3
67.5°	522.3	546.9	581.0	591.8	598.4
70°	449.1	475.2	504.9	512.2	517.2
72.5°	375.2	402.0	425.2	432.5	436.8
75°	302.8	328.9	346.3	355.0	356.4
77.5°	232.5	256.4	272.4	282.5	282.5
80°	165.9	184.0	201.4	212.3	211.5
82.5°	105.8	119.5	137.6	145.6	150.7
85°	55.1	63.7	80.4	84.0	86.2
87.5°	17.4	22.5	29.0	23.9	23.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1585805

CATALOG NUMBER: 14CZSP-SB-54VHE-L935

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	17.83	19.48	18.19	19.79	20.11	18.37	20.02	18.73	20.33	20.65
	3H	19.60	21.09	19.98	21.42	21.78	20.23	21.72	20.60	22.05	22.41
	4H	20.22	21.63	20.62	21.98	22.35	20.90	22.31	21.30	22.66	23.03
	6H	20.63	21.93	21.04	22.30	22.69	21.39	22.69	21.80	23.05	23.45
	8H	20.73	21.98	21.15	22.36	22.76	21.54	22.79	21.97	23.18	23.58
	12H	20.78	21.97	21.21	22.35	22.78	21.64	22.83	22.07	23.22	23.64
4H	2H	18.57	19.97	18.96	20.32	20.70	18.99	20.39	19.38	20.74	21.12
	3H	20.56	21.74	20.97	22.14	22.54	21.07	22.25	21.47	22.64	23.04
	4H	21.31	22.38	21.74	22.79	23.22	21.87	22.94	22.30	23.35	23.78
	6H	21.83	22.76	22.28	23.20	23.66	22.48	23.42	22.93	23.86	24.31
	8H	21.96	22.84	22.42	23.28	23.74	22.68	23.56	23.14	24.00	24.47
	12H	22.04	22.82	22.52	23.30	23.77	22.82	23.61	23.30	24.09	24.55
8H	4H	21.66	22.54	22.12	22.98	23.44	22.16	23.03	22.62	23.47	23.94
	6H	22.29	23.02	22.79	23.51	23.98	22.89	23.62	23.38	24.10	24.58
	8H	22.49	23.14	23.00	23.65	24.13	23.16	23.81	23.67	24.32	24.81
	12H	22.61	23.19	23.12	23.68	24.24	23.37	23.94	23.87	24.43	24.99
12H	4H	21.70	22.49	22.18	22.96	23.43	22.18	22.97	22.66	23.44	23.91
	6H	22.36	23.01	22.87	23.52	24.00	22.93	23.58	23.44	24.09	24.58
	8H	22.61	23.18	23.11	23.67	24.23	23.26	23.83	23.76	24.32	24.88