

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: P1584394

Luminaire Tested: 14CZSP-54VHE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-54VHE-L835-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 5200 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

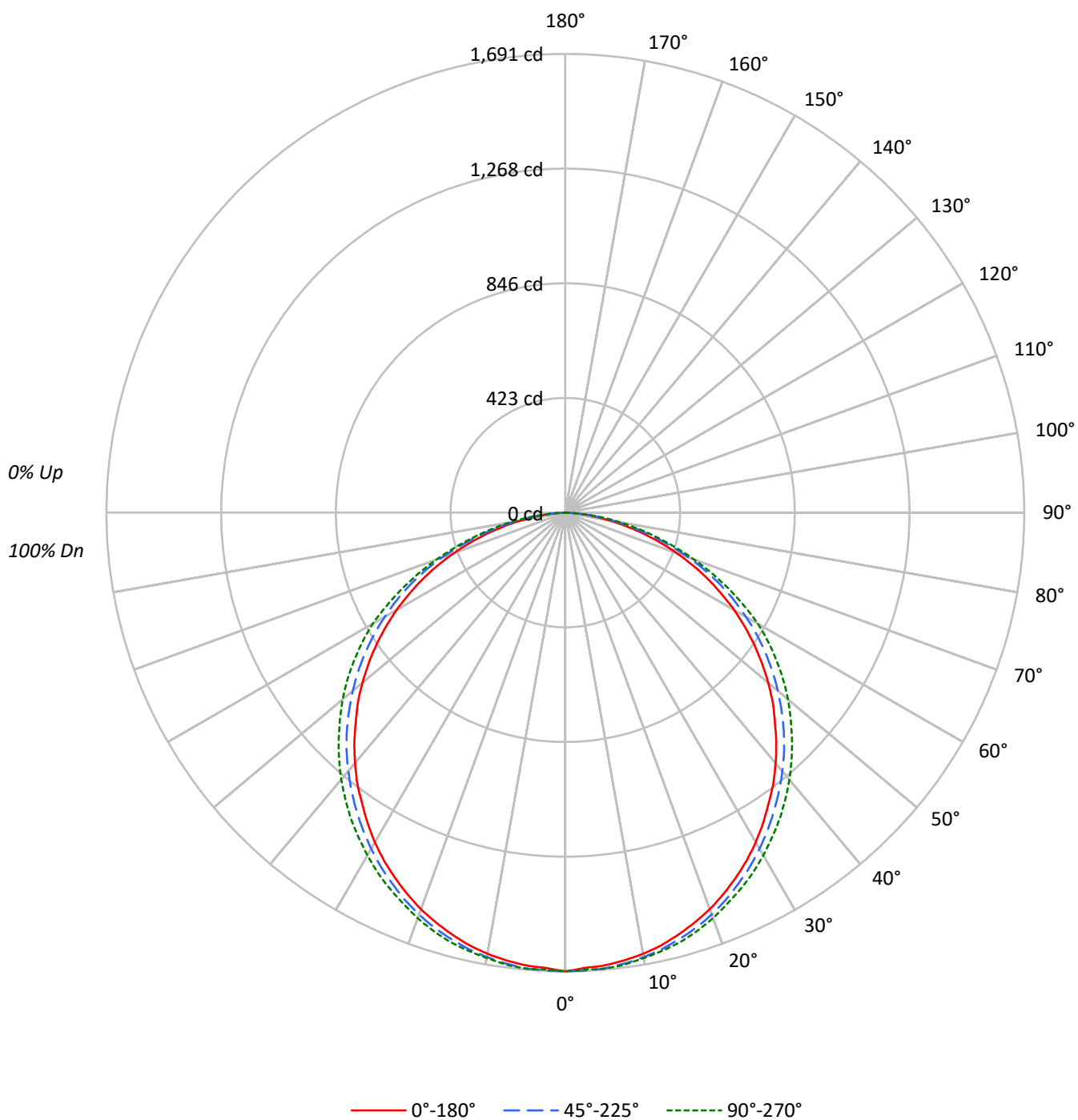
Lumens per Lamp: N/A
Luminaire Lumens: 4889.0 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1584394

CATALOG NUMBER: 14CZSP-54VHE-L835-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			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	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	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	59	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°	5698	5698	5698
5°	5667	5703	5708
10°	5651	5693	5705
15°	5618	5676	5716
20°	5579	5654	5705
25°	5522	5610	5688
30°	5460	5566	5676
35°	5373	5518	5666
40°	5302	5473	5650
45°	5202	5425	5627
50°	5115	5361	5617
55°	4993	5284	5580
60°	4840	5180	5523
65°	4624	5037	5296
70°	4310	4758	4970
75°	3851	4291	4535
80°	3155	3617	3966
85°	2115	2644	2950

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5627 cd/sqm

TEST NUMBER: P1584394

CATALOG NUMBER: 14CZSP-54VHE-L835-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.2	3.3
10°-20°	459.2	9.4
20°-30°	695.3	14.2
30°-40°	839.6	17.2
40°-50°	877.5	17.9
50°-60°	804.0	16.4
60°-70°	620.7	12.7
70°-80°	349.1	7.1
80°-90°	83.5	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°	1314.6	26.9
0°-40°	2154.2	44.1
0°-60°	3835.7	78.5
0°-90°	4889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4889.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1691	1691	1691	1691	1691	
5°	1675	1688	1686	1688	1688	159
15°	1610	1624	1627	1634	1639	454
25°	1485	1498	1509	1517	1530	685
35°	1306	1323	1341	1359	1377	818
45°	1092	1113	1138	1162	1181	844
55°	850	872	900	928	950	759
65°	580	605	632	657	664	573
75°	296	323	330	343	348	314
85°	55	63	68	75	76	70
90°	0	0	0	0	0	

TEST NUMBER: P1584394

CATALOG NUMBER: 14CZSP-54VHE-L835-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1691.1	1691.1	1691.1	1691.1	1691.1
2.5°	1679.6	1692.5	1689.7	1694.0	1686.1
5°	1675.3	1687.5	1686.1	1687.5	1687.5
7.5°	1664.5	1677.4	1676.7	1678.9	1680.3
10°	1651.5	1663.8	1663.8	1665.9	1667.4
12.5°	1633.5	1646.5	1647.9	1651.5	1654.4
15°	1610.5	1623.5	1627.1	1633.5	1638.6
17.5°	1584.6	1598.3	1604.0	1610.5	1617.0
20°	1555.8	1568.1	1576.7	1581.7	1591.1
22.5°	1522.0	1535.7	1545.0	1550.1	1560.1
25°	1485.3	1498.3	1509.0	1517.0	1529.9
27.5°	1446.4	1459.4	1472.3	1481.7	1496.8
30°	1403.3	1416.9	1430.6	1445.0	1458.7
32.5°	1356.5	1372.3	1387.4	1403.3	1418.4
35°	1306.1	1322.7	1341.4	1359.4	1377.4
37.5°	1259.3	1274.4	1293.9	1313.3	1331.3
40°	1205.4	1221.9	1244.2	1265.8	1284.5
42.5°	1150.7	1168.7	1193.1	1214.0	1234.1
45°	1091.7	1113.3	1138.4	1161.5	1180.9
47.5°	1037.0	1055.7	1080.9	1106.1	1126.2
50°	975.8	996.7	1022.6	1049.2	1071.5
52.5°	913.9	935.5	962.1	988.8	1011.8
55°	849.9	872.2	899.5	927.6	949.9
57.5°	784.4	808.1	836.2	864.3	886.6
60°	718.2	741.9	768.6	799.5	819.6
62.5°	649.1	675.7	700.9	729.7	741.9
65°	580.0	605.2	631.8	657.0	664.2
67.5°	509.5	535.4	559.1	575.7	585.1
70°	437.5	465.6	482.9	498.7	504.5
72.5°	366.3	394.4	404.4	419.5	425.3
75°	295.8	323.1	329.6	343.3	348.3
77.5°	227.4	252.6	254.7	270.6	274.9
80°	162.6	182.8	186.4	201.5	204.4
82.5°	104.3	118.7	123.8	136.7	141.0
85°	54.7	62.6	68.4	74.8	76.3
87.5°	18.0	22.3	18.7	19.4	18.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584394

CATALOG NUMBER: 14CZSP-54VHE-L835-S

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	17.76	19.41	18.12	19.72	20.04	18.30	19.95	18.66	20.26	20.58
	3H	19.53	21.03	19.91	21.35	21.71	20.16	21.65	20.53	21.97	22.33
	4H	20.16	21.57	20.56	21.91	22.29	20.82	22.23	21.22	22.58	22.95
	6H	20.57	21.87	20.98	22.24	22.63	21.30	22.61	21.71	22.97	23.36
	8H	20.67	21.92	21.10	22.31	22.71	21.45	22.69	21.87	23.08	23.48
	12H	20.72	21.92	21.15	22.30	22.73	21.53	22.72	21.96	23.11	23.53
4H	2H	18.48	19.89	18.88	20.24	20.61	18.90	20.31	19.30	20.66	21.03
	3H	20.48	21.66	20.89	22.05	22.45	20.98	22.16	21.39	22.55	22.95
	4H	21.23	22.30	21.67	22.72	23.15	21.77	22.84	22.20	23.25	23.69
	6H	21.76	22.70	22.22	23.14	23.59	22.38	23.31	22.83	23.75	24.20
	8H	21.90	22.78	22.36	23.22	23.68	22.57	23.44	23.03	23.88	24.35
	12H	21.98	22.77	22.46	23.24	23.71	22.69	23.47	23.17	23.95	24.42
8H	4H	21.57	22.45	22.03	22.89	23.35	22.05	22.92	22.51	23.36	23.83
	6H	22.21	22.94	22.70	23.43	23.90	22.76	23.49	23.25	23.97	24.45
	8H	22.41	23.06	22.92	23.57	24.05	23.02	23.67	23.53	24.18	24.66
	12H	22.54	23.12	23.05	23.61	24.17	23.20	23.78	23.71	24.27	24.83
12H	4H	21.61	22.39	22.09	22.87	23.34	22.07	22.86	22.55	23.33	23.80
	6H	22.27	22.92	22.78	23.42	23.91	22.80	23.45	23.31	23.96	24.44
	8H	22.52	23.09	23.02	23.58	24.14	23.11	23.68	23.61	24.17	24.73