

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: P1585794

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585794
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-L835-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 5200 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

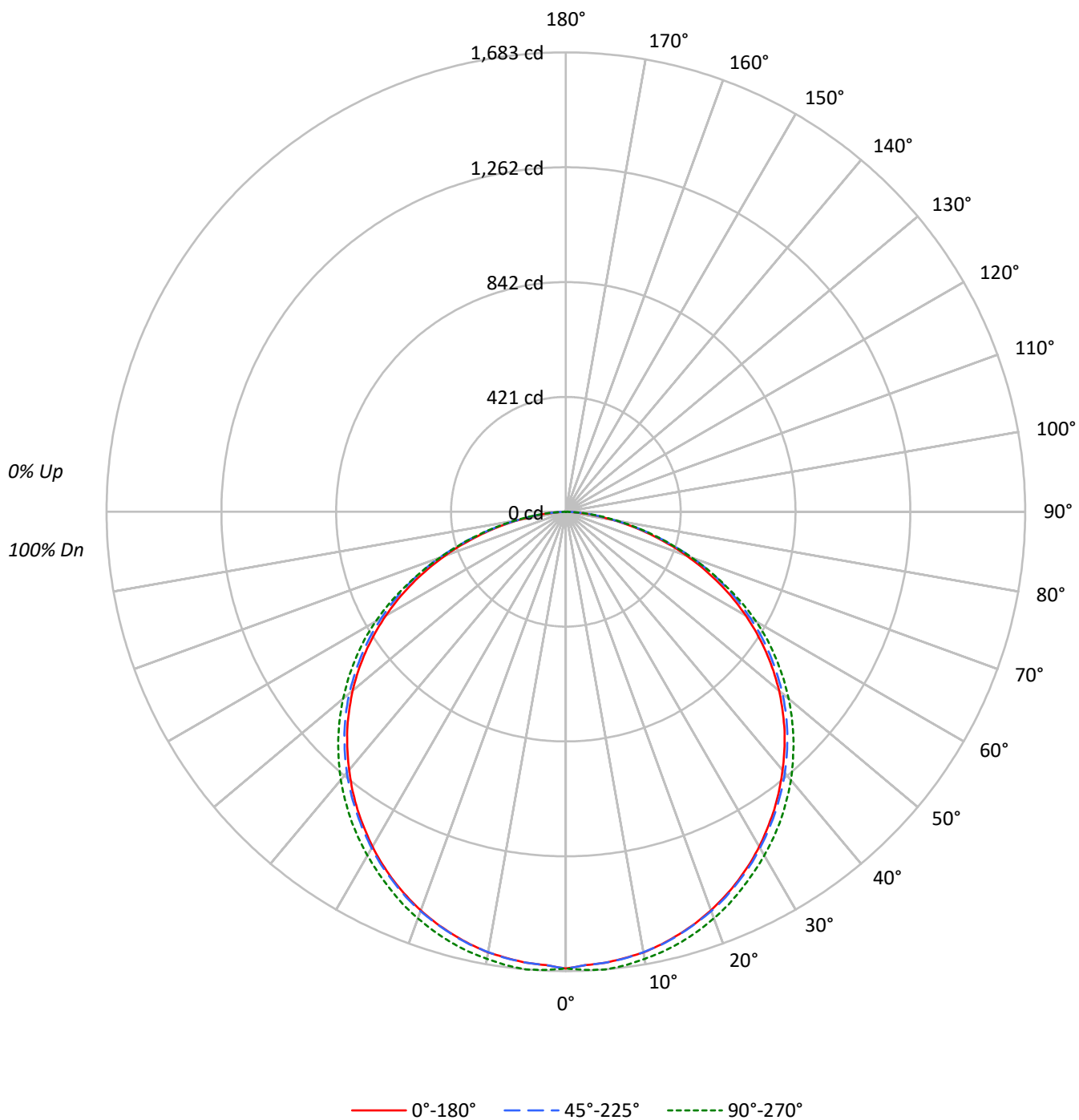
Lumens per Lamp: N/A
Luminaire Lumens: 4938.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1585794

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

Luminous Intensity Polar Plot



TEST NUMBER: P1585794

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

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°	5638	5638	5638
5°	5611	5609	5693
10°	5609	5606	5692
15°	5592	5597	5695
20°	5575	5585	5686
25°	5546	5561	5667
30°	5513	5537	5657
35°	5477	5512	5654
40°	5435	5491	5644
45°	5401	5470	5621
50°	5347	5430	5585
55°	5264	5361	5530
60°	5137	5269	5432
65°	4943	5131	5185
70°	4648	4865	4834
75°	4174	4351	4381
80°	3448	3625	3815
85°	2308	2691	2834

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5621 cd/sqm

TEST NUMBER: P1585794

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	3.2
10°-20°	455.9	9.2
20°-30°	694.2	14.1
30°-40°	844.8	17.1
40°-50°	890.7	18.0
50°-60°	820.3	16.6
60°-70°	633.6	12.8
70°-80°	354.5	7.2
80°-90°	85.5	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°	1308.6	26.5
0°-40°	2153.5	43.6
0°-60°	3864.4	78.3
0°-90°	4938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4938.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1673	1673	1673	1673	1673	
5°	1659	1682	1658	1660	1683	158
15°	1603	1625	1604	1614	1632	453
25°	1492	1513	1496	1505	1524	688
35°	1332	1351	1340	1356	1375	833
45°	1133	1149	1148	1165	1180	873
55°	896	911	913	932	941	800
65°	620	638	644	650	650	612
75°	321	340	334	334	336	340
85°	60	66	70	78	73	77
90°	0	0	0	0	0	



TEST NUMBER: P1585794

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1673.3	1673.3	1673.3	1673.3	1673.3
2.5°	1662.7	1686.9	1662.7	1666.5	1680.1
5°	1658.9	1682.4	1658.2	1660.5	1683.1
7.5°	1649.1	1673.3	1650.6	1653.6	1675.6
10°	1639.3	1661.2	1638.5	1642.3	1663.5
12.5°	1622.6	1645.3	1624.2	1628.7	1649.9
15°	1603.0	1624.9	1604.5	1613.6	1632.5
17.5°	1580.3	1601.5	1581.8	1592.4	1610.5
20°	1554.6	1575.0	1557.6	1565.2	1585.6
22.5°	1524.3	1545.5	1528.9	1535.7	1557.6
25°	1491.8	1513.0	1495.6	1505.4	1524.3
27.5°	1456.3	1476.7	1461.6	1473.7	1490.3
30°	1417.0	1436.6	1423.0	1437.4	1454.0
32.5°	1374.6	1395.8	1382.2	1398.8	1415.5
35°	1331.5	1351.2	1339.9	1356.5	1374.6
37.5°	1284.7	1303.6	1295.2	1312.6	1329.3
40°	1235.5	1256.7	1248.4	1266.5	1283.1
42.5°	1184.8	1205.3	1198.5	1217.4	1231.7
45°	1133.4	1149.3	1147.8	1165.2	1179.6
47.5°	1076.7	1096.4	1093.4	1110.7	1123.6
50°	1020.0	1035.9	1035.9	1052.5	1065.4
52.5°	958.8	974.6	974.6	994.3	1004.9
55°	896.0	911.1	912.6	931.5	941.4
57.5°	829.5	845.3	848.4	867.3	876.4
60°	762.2	777.3	781.8	800.7	806.0
62.5°	691.9	710.0	712.3	727.4	730.4
65°	620.0	638.2	643.5	649.5	650.3
67.5°	546.7	565.6	570.9	570.9	570.9
70°	471.8	489.2	493.8	490.7	490.7
72.5°	396.2	415.1	412.8	409.8	411.3
75°	320.6	340.3	334.2	333.5	336.5
77.5°	248.0	266.9	257.1	263.1	263.9
80°	177.7	192.1	186.8	195.8	196.6
82.5°	114.2	123.2	124.8	132.3	130.1
85°	59.7	65.8	69.6	77.9	73.3
87.5°	18.9	25.0	22.7	26.5	20.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1585794

CATALOG NUMBER: 14CZSP-SB-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	18.04	19.70	18.41	20.01	20.33	18.26	19.92	18.63	20.23	20.54
	3H	19.86	21.36	20.24	21.69	22.05	20.06	21.56	20.44	21.89	22.24
	4H	20.51	21.92	20.91	22.27	22.65	20.70	22.11	21.10	22.46	22.83
	6H	20.94	22.25	21.35	22.61	23.00	21.15	22.46	21.56	22.83	23.22
	8H	21.05	22.30	21.47	22.69	23.09	21.28	22.53	21.71	22.92	23.32
	12H	21.10	22.30	21.53	22.68	23.11	21.36	22.56	21.79	22.94	23.37
4H	2H	18.72	20.14	19.12	20.48	20.86	18.89	20.31	19.29	20.65	21.03
	3H	20.76	21.95	21.17	22.35	22.75	20.91	22.09	21.32	22.49	22.89
	4H	21.54	22.62	21.97	23.03	23.46	21.66	22.74	22.10	23.15	23.59
	6H	22.09	23.03	22.55	23.47	23.93	22.24	23.18	22.69	23.62	24.07
	8H	22.24	23.12	22.70	23.56	24.02	22.41	23.29	22.87	23.73	24.20
	12H	22.32	23.11	22.80	23.59	24.06	22.53	23.32	23.01	23.79	24.26
8H	4H	21.85	22.73	22.31	23.17	23.64	21.96	22.84	22.42	23.28	23.74
	6H	22.51	23.24	23.00	23.73	24.20	22.64	23.37	23.13	23.86	24.33
	8H	22.72	23.37	23.22	23.88	24.36	22.88	23.53	23.39	24.04	24.52
	12H	22.85	23.43	23.36	23.92	24.48	23.06	23.63	23.56	24.12	24.68
12H	4H	21.88	22.67	22.36	23.15	23.61	21.99	22.78	22.47	23.25	23.72
	6H	22.56	23.21	23.06	23.72	24.20	22.68	23.34	23.19	23.84	24.33
	8H	22.81	23.39	23.32	23.88	24.44	22.97	23.55	23.48	24.04	24.60