

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: P1585760

Luminaire Tested: 14CZSP-SB-52-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585760
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-52-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

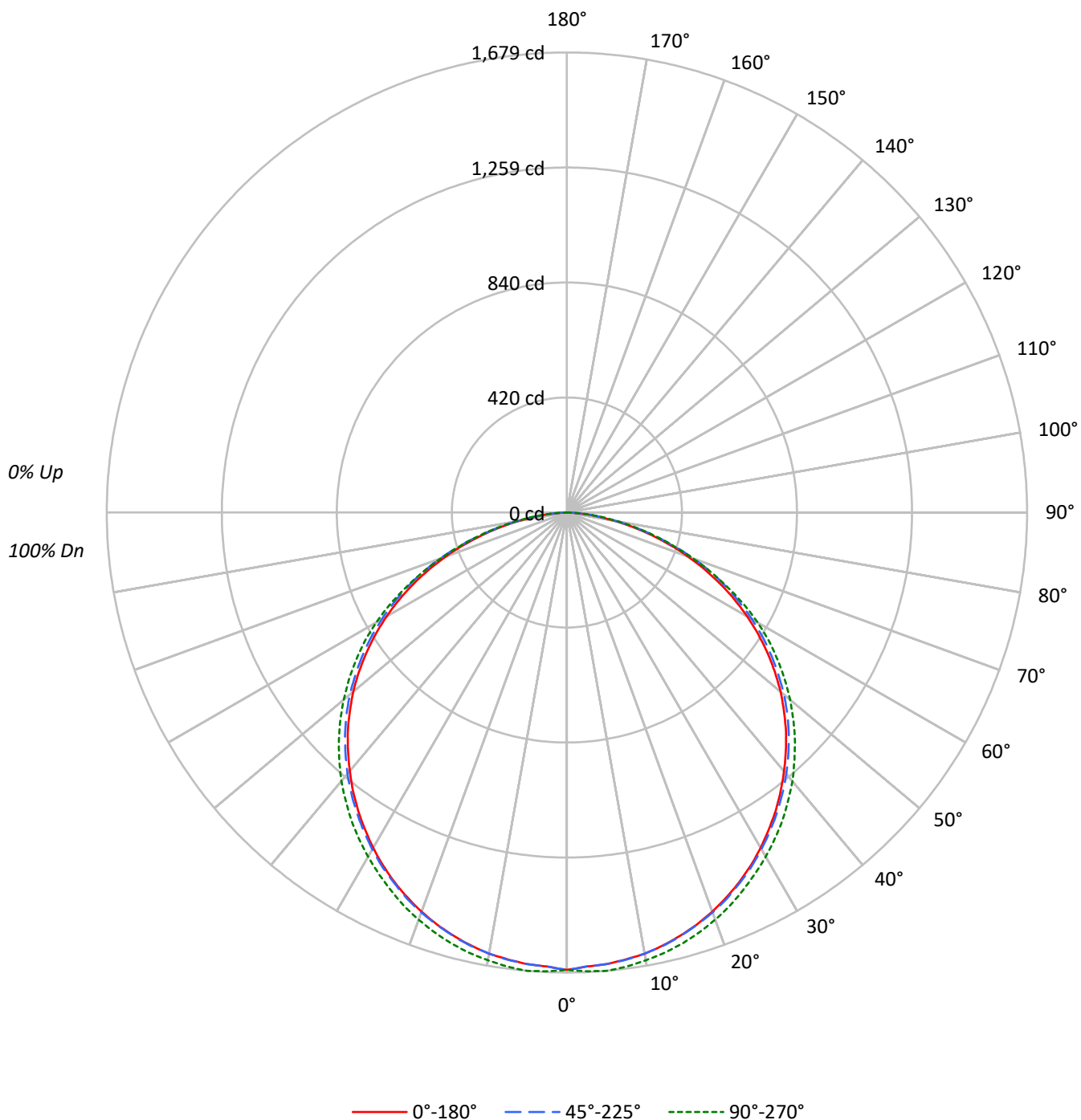
Lumens per Lamp: N/A
Luminaire Lumens: 4926.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.9
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: P1585760

CATALOG NUMBER: 14CZSP-SB-52-L850-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	99	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5624	5624	5624
5°	5598	5595	5679
10°	5595	5593	5678
15°	5578	5584	5681
20°	5561	5572	5672
25°	5533	5547	5653
30°	5500	5523	5644
35°	5464	5498	5641
40°	5421	5478	5630
45°	5388	5456	5607
50°	5334	5417	5571
55°	5251	5348	5517
60°	5124	5256	5419
65°	4931	5118	5172
70°	4637	4853	4823
75°	4163	4341	4370
80°	3440	3615	3805
85°	2304	2683	2830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5607 cd/sqm

TEST NUMBER: P1585760

CATALOG NUMBER: 14CZSP-SB-52-L850-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	3.2
10°-20°	454.8	9.2
20°-30°	692.5	14.1
30°-40°	842.8	17.1
40°-50°	888.5	18.0
50°-60°	818.3	16.6
60°-70°	632.0	12.8
70°-80°	353.7	7.2
80°-90°	85.2	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°	1305.5	26.5
0°-40°	2148.2	43.6
0°-60°	3855.1	78.3
0°-90°	4926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4926.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1669	1669	1669	1669	1669	
5°	1655	1678	1654	1656	1679	157
15°	1599	1621	1601	1610	1628	451
25°	1488	1509	1492	1502	1521	686
35°	1328	1348	1337	1353	1371	831
45°	1131	1146	1145	1162	1177	871
55°	894	909	910	929	939	798
65°	618	637	642	648	649	611
75°	320	339	333	333	336	339
85°	60	66	69	78	73	76
90°	0	0	0	0	0	

TEST NUMBER: P1585760

CATALOG NUMBER: 14CZSP-SB-52-L850-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1669.2	1669.2	1669.2	1669.2	1669.2
2.5°	1658.7	1682.8	1658.7	1662.5	1676.0
5°	1654.9	1678.3	1654.2	1656.4	1679.0
7.5°	1645.1	1669.2	1646.6	1649.6	1671.5
10°	1635.3	1657.2	1634.5	1638.3	1659.4
12.5°	1618.7	1641.3	1620.2	1624.7	1645.9
15°	1599.1	1621.0	1600.6	1609.7	1628.5
17.5°	1576.5	1597.6	1578.0	1588.5	1606.6
20°	1550.8	1571.2	1553.8	1561.4	1581.7
22.5°	1520.6	1541.8	1525.2	1532.0	1553.8
25°	1488.2	1509.3	1492.0	1501.8	1520.6
27.5°	1452.8	1473.1	1458.0	1470.1	1486.7
30°	1413.5	1433.1	1419.6	1433.9	1450.5
32.5°	1371.3	1392.4	1378.8	1395.4	1412.0
35°	1328.3	1347.9	1336.6	1353.2	1371.3
37.5°	1281.5	1300.4	1292.1	1309.4	1326.0
40°	1232.5	1253.6	1245.3	1263.4	1280.0
42.5°	1182.0	1202.3	1195.5	1214.4	1228.7
45°	1130.7	1146.5	1145.0	1162.4	1176.7
47.5°	1074.1	1093.7	1090.7	1108.0	1120.9
50°	1017.5	1033.4	1033.4	1050.0	1062.8
52.5°	956.4	972.3	972.3	991.9	1002.4
55°	893.8	908.9	910.4	929.3	939.1
57.5°	827.5	843.3	846.3	865.2	874.2
60°	760.3	775.4	779.9	798.8	804.1
62.5°	690.2	708.3	710.5	725.6	728.6
65°	618.5	636.6	641.9	647.9	648.7
67.5°	545.4	564.2	569.5	569.5	569.5
70°	470.7	488.0	492.6	489.5	489.5
72.5°	395.2	414.1	411.8	408.8	410.3
75°	319.8	339.4	333.4	332.6	335.7
77.5°	247.4	266.3	256.5	262.5	263.2
80°	177.3	191.6	186.3	195.4	196.1
82.5°	113.9	122.9	124.5	132.0	129.7
85°	59.6	65.6	69.4	77.7	73.2
87.5°	18.9	24.9	22.6	26.4	20.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1585760

CATALOG NUMBER: 14CZSP-SB-52-L850-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	19.69	18.40	20.01	20.32	18.25	19.91	18.62	20.22	20.54
	3H	19.86	21.36	20.23	21.68	22.04	20.05	21.55	20.43	21.88	22.24
	4H	20.50	21.92	20.90	22.26	22.64	20.69	22.10	21.09	22.45	22.82
	6H	20.93	22.24	21.34	22.60	23.00	21.14	22.45	21.55	22.82	23.21
	8H	21.04	22.29	21.46	22.68	23.08	21.27	22.53	21.70	22.91	23.31
	12H	21.09	22.29	21.52	22.67	23.10	21.35	22.55	21.78	22.93	23.36
4H	2H	18.71	20.13	19.11	20.47	20.85	18.88	20.30	19.28	20.64	21.02
	3H	20.76	21.94	21.16	22.34	22.74	20.90	22.08	21.31	22.48	22.88
	4H	21.54	22.61	21.97	23.02	23.46	21.66	22.73	22.09	23.14	23.58
	6H	22.09	23.02	22.54	23.46	23.92	22.23	23.17	22.68	23.61	24.06
	8H	22.23	23.11	22.69	23.55	24.01	22.41	23.28	22.86	23.72	24.19
	12H	22.31	23.10	22.79	23.58	24.05	22.52	23.31	23.00	23.78	24.25
8H	4H	21.84	22.72	22.30	23.16	23.63	21.95	22.83	22.41	23.27	23.73
	6H	22.50	23.23	22.99	23.72	24.19	22.63	23.36	23.13	23.85	24.32
	8H	22.71	23.36	23.22	23.87	24.35	22.87	23.52	23.38	24.03	24.52
	12H	22.84	23.42	23.35	23.91	24.47	23.05	23.63	23.55	24.12	24.68
12H	4H	21.87	22.66	22.35	23.14	23.61	21.98	22.77	22.46	23.24	23.71
	6H	22.55	23.20	23.06	23.71	24.19	22.67	23.33	23.18	23.83	24.32
	8H	22.80	23.38	23.31	23.87	24.43	22.96	23.54	23.47	24.03	24.59