

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: P1585758

Luminaire Tested: 14CZSP-SB-52-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585758
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-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

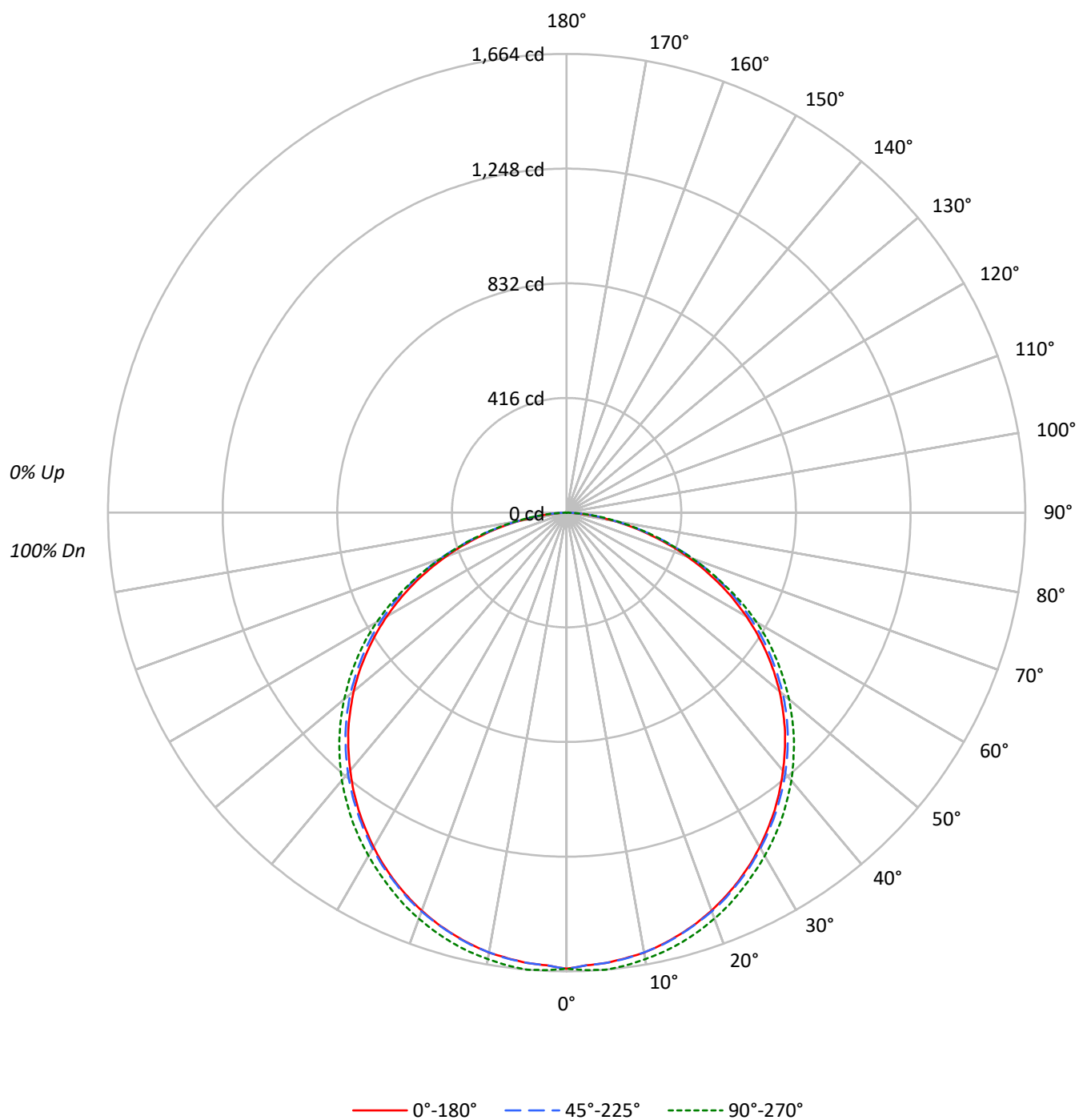
Lumens per Lamp: N/A
Luminaire Lumens: 4882.0 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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	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°	5574	5574	5574
5°	5548	5545	5628
10°	5545	5543	5627
15°	5528	5534	5630
20°	5511	5522	5621
25°	5484	5498	5603
30°	5451	5474	5593
35°	5415	5449	5590
40°	5373	5429	5580
45°	5340	5408	5557
50°	5286	5368	5522
55°	5204	5301	5468
60°	5078	5209	5370
65°	4888	5072	5126
70°	4596	4810	4780
75°	4127	4301	4331
80°	3409	3582	3772
85°	2285	2660	2803

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5557 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.8	3.2
10°-20°	450.7	9.2
20°-30°	686.3	14.1
30°-40°	835.3	17.1
40°-50°	880.6	18.0
50°-60°	811.0	16.6
60°-70°	626.4	12.8
70°-80°	350.5	7.2
80°-90°	84.5	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°	1293.8	26.5
0°-40°	2129.1	43.6
0°-60°	3820.6	78.3
0°-90°	4882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4882.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1640	1663	1639	1642	1664	156
15°	1585	1606	1586	1595	1614	447
25°	1475	1496	1479	1488	1507	680
35°	1316	1336	1325	1341	1359	823
45°	1121	1136	1135	1152	1166	863
55°	886	901	902	921	931	791
65°	613	631	636	642	643	606
75°	317	336	330	330	333	336
85°	59	65	69	77	72	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1654.3	1654.3	1654.3	1654.3	1654.3
2.5°	1643.9	1667.8	1643.9	1647.6	1661.1
5°	1640.1	1663.3	1639.4	1641.6	1664.0
7.5°	1630.4	1654.3	1631.9	1634.9	1656.6
10°	1620.7	1642.4	1619.9	1623.7	1644.6
12.5°	1604.2	1626.7	1605.7	1610.2	1631.2
15°	1584.8	1606.5	1586.3	1595.3	1614.0
17.5°	1562.4	1583.3	1563.9	1574.3	1592.3
20°	1537.0	1557.1	1540.0	1547.4	1567.6
22.5°	1507.1	1528.0	1511.5	1518.3	1540.0
25°	1474.9	1495.8	1478.7	1488.4	1507.1
27.5°	1439.8	1460.0	1445.0	1457.0	1473.4
30°	1400.9	1420.3	1406.9	1421.1	1437.5
32.5°	1359.0	1380.0	1366.5	1383.0	1399.4
35°	1316.4	1335.9	1324.7	1341.1	1359.0
37.5°	1270.1	1288.8	1280.6	1297.7	1314.2
40°	1221.5	1242.4	1234.2	1252.1	1268.6
42.5°	1171.4	1191.6	1184.9	1203.6	1217.8
45°	1120.6	1136.3	1134.8	1152.0	1166.2
47.5°	1064.5	1083.9	1081.0	1098.2	1110.9
50°	1008.4	1024.1	1024.1	1040.6	1053.3
52.5°	947.9	963.6	963.6	983.0	993.5
55°	885.8	900.8	902.3	921.0	930.7
57.5°	820.1	835.8	838.8	857.4	866.4
60°	753.5	768.5	773.0	791.7	796.9
62.5°	684.0	702.0	704.2	719.1	722.1
65°	613.0	630.9	636.2	642.1	642.9
67.5°	540.5	559.2	564.4	564.4	564.4
70°	466.5	483.7	488.2	485.2	485.2
72.5°	391.7	410.4	408.2	405.2	406.7
75°	317.0	336.4	330.4	329.7	332.7
77.5°	245.2	263.9	254.2	260.1	260.9
80°	175.7	189.9	184.6	193.6	194.4
82.5°	112.9	121.9	123.3	130.8	128.6
85°	59.1	65.0	68.8	77.0	72.5
87.5°	18.7	24.7	22.4	26.2	20.2
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	18.00	19.66	18.37	19.97	20.29	18.22	19.88	18.59	20.19	20.50
	3H	19.83	21.32	20.20	21.65	22.01	20.02	21.52	20.40	21.85	22.21
	4H	20.47	21.88	20.87	22.23	22.61	20.66	22.07	21.06	22.42	22.79
	6H	20.90	22.21	21.31	22.57	22.96	21.11	22.42	21.52	22.79	23.18
	8H	21.01	22.26	21.43	22.65	23.05	21.24	22.49	21.67	22.88	23.28
	12H	21.06	22.26	21.49	22.64	23.07	21.32	22.52	21.75	22.90	23.33
4H	2H	18.68	20.10	19.08	20.44	20.82	18.85	20.27	19.25	20.61	20.99
	3H	20.72	21.91	21.13	22.31	22.71	20.87	22.05	21.28	22.45	22.85
	4H	21.50	22.58	21.94	22.99	23.43	21.63	22.70	22.06	23.11	23.55
	6H	22.05	22.99	22.51	23.43	23.89	22.20	23.14	22.65	23.58	24.03
	8H	22.20	23.08	22.66	23.52	23.98	22.37	23.25	22.83	23.69	24.16
	12H	22.28	23.07	22.76	23.55	24.02	22.49	23.28	22.97	23.75	24.22
8H	4H	21.81	22.69	22.27	23.13	23.60	21.92	22.80	22.38	23.24	23.70
	6H	22.47	23.20	22.96	23.69	24.16	22.60	23.33	23.09	23.82	24.29
	8H	22.68	23.33	23.19	23.84	24.32	22.84	23.49	23.35	24.00	24.48
	12H	22.81	23.39	23.32	23.88	24.44	23.02	23.59	23.52	24.08	24.64
12H	4H	21.84	22.63	22.32	23.11	23.58	21.95	22.74	22.43	23.21	23.68
	6H	22.52	23.17	23.02	23.68	24.16	22.64	23.30	23.15	23.80	24.29
	8H	22.77	23.35	23.28	23.84	24.40	22.93	23.51	23.44	24.00	24.56