

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: P1589831

Luminaire Tested: 24CZSP-SB-52-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-52-L950
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

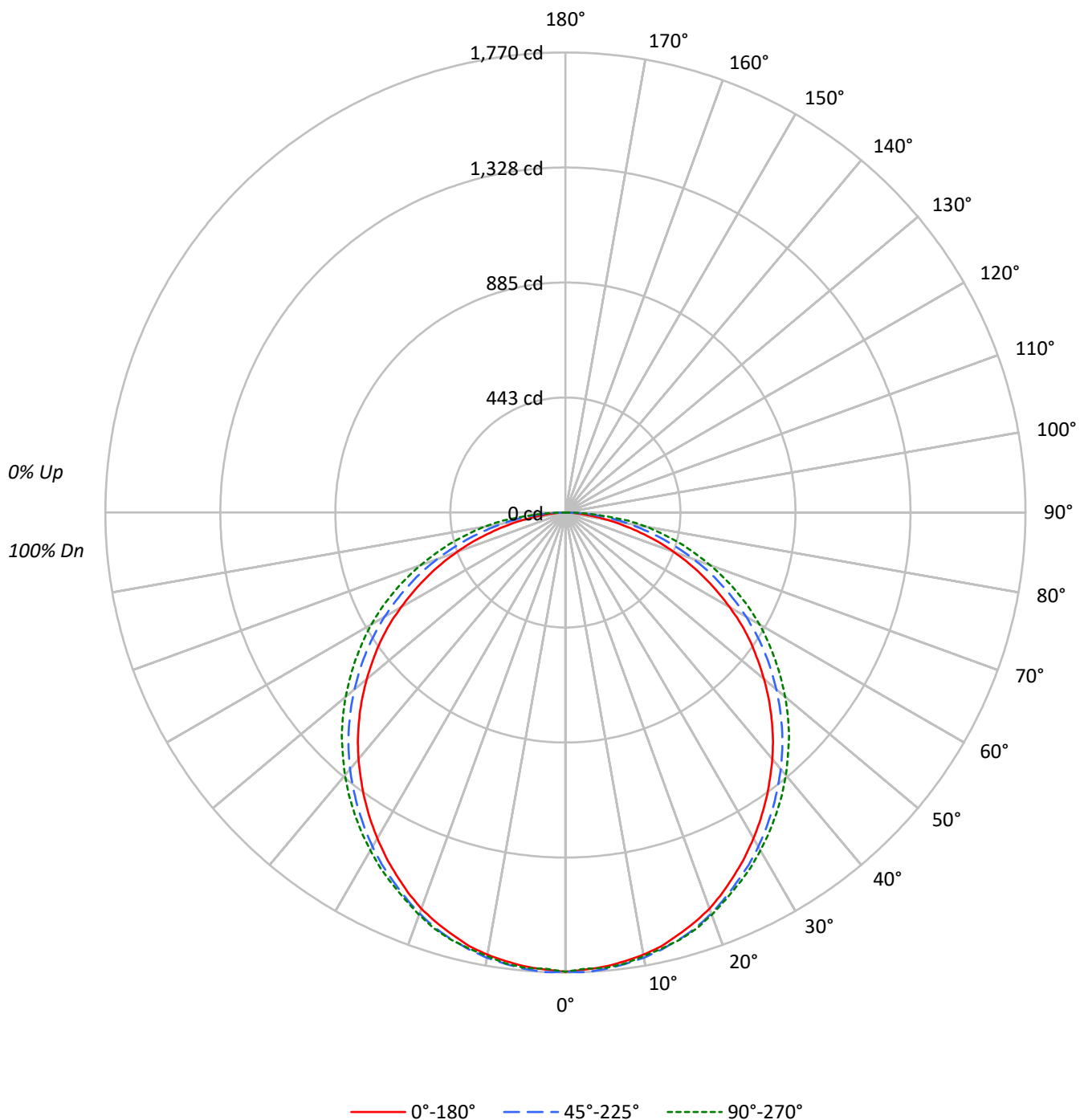
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5156.0 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.7
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: 28.75 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			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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2706	2706	2706
5°	2696	2711	2705
10°	2687	2705	2695
15°	2666	2694	2698
20°	2643	2675	2684
25°	2600	2646	2665
30°	2559	2625	2654
35°	2518	2600	2644
40°	2476	2577	2638
45°	2430	2553	2636
50°	2377	2525	2629
55°	2322	2497	2628
60°	2236	2460	2644
65°	2132	2413	2646
70°	1989	2346	2654
75°	1769	2260	2699
80°	1454	2165	2801
85°	960	2033	2531

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2868 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	3.2
10°-20°	478.4	9.3
20°-30°	721.0	14.0
30°-40°	868.3	16.8
40°-50°	907.1	17.6
50°-60°	833.4	16.2
60°-70°	656.3	12.7
70°-80°	402.4	7.8
80°-90°	122.0	2.4
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°	1366.5	26.5
0°-40°	2234.8	43.3
0°-60°	3975.3	77.1
0°-90°	5156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5156.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1767	1767	1767	1767	1767	
5°	1754	1757	1764	1761	1759	167
15°	1682	1688	1699	1706	1701	475
25°	1539	1548	1566	1582	1577	709
35°	1347	1364	1390	1415	1414	842
45°	1122	1146	1179	1211	1217	865
55°	870	895	935	976	984	776
65°	588	619	666	710	730	582
75°	299	334	382	428	456	318
85°	55	81	116	129	144	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1766.8	1766.8	1766.8	1766.8	1766.8
2.5°	1760.2	1764.6	1770.0	1761.3	1756.9
5°	1753.7	1756.9	1763.5	1761.3	1759.1
7.5°	1741.7	1743.8	1752.6	1752.6	1750.4
10°	1727.5	1731.8	1739.5	1738.4	1732.9
12.5°	1708.9	1712.2	1720.9	1720.9	1717.6
15°	1681.6	1688.2	1699.1	1705.6	1701.3
17.5°	1653.3	1659.8	1674.0	1680.5	1678.4
20°	1621.6	1627.1	1641.3	1651.1	1646.7
22.5°	1582.3	1588.9	1605.2	1616.2	1611.8
25°	1538.7	1548.5	1566.0	1582.3	1576.9
27.5°	1495.0	1505.9	1527.8	1544.1	1542.0
30°	1447.0	1461.2	1484.1	1504.9	1500.5
32.5°	1397.9	1414.3	1438.3	1460.1	1459.0
35°	1346.6	1364.1	1390.3	1415.4	1414.3
37.5°	1292.1	1312.8	1340.1	1367.4	1368.4
40°	1238.6	1258.2	1288.8	1318.2	1319.3
42.5°	1181.8	1202.6	1235.3	1265.9	1267.0
45°	1121.8	1145.8	1178.6	1211.3	1216.8
47.5°	1060.7	1085.8	1119.6	1154.6	1161.1
50°	997.4	1023.6	1059.6	1096.7	1103.3
52.5°	933.0	960.3	997.4	1034.5	1044.3
55°	869.7	894.8	935.2	975.6	984.3
57.5°	803.2	826.1	869.7	912.3	923.2
60°	730.1	758.4	803.2	845.7	863.2
62.5°	659.1	689.7	735.5	778.1	797.7
65°	588.2	618.7	665.7	710.4	730.1
67.5°	516.2	547.8	598.0	640.6	662.4
70°	444.1	475.8	523.8	569.6	592.6
72.5°	372.1	405.9	452.9	499.8	522.7
75°	299.0	333.9	381.9	427.8	456.1
77.5°	230.3	264.1	312.1	359.0	383.0
80°	164.8	198.6	245.5	292.5	317.6
82.5°	104.8	136.4	182.2	221.5	244.4
85°	54.6	80.8	115.7	128.8	144.0
87.5°	16.4	31.6	44.7	50.2	62.2
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	15.0	16.6	15.3	16.9	17.3	15.7	17.4	16.1	17.7	18.0
	3H	16.7	18.2	17.1	18.6	18.9	17.8	19.3	18.2	19.6	20.0
	4H	17.4	18.8	17.8	19.1	19.5	18.7	20.1	19.1	20.5	20.8
	6H	17.8	19.1	18.2	19.5	19.8	19.5	20.8	19.9	21.1	21.5
	8H	17.9	19.1	18.3	19.5	19.9	19.8	21.0	20.2	21.4	21.8
	12H	17.9	19.1	18.4	19.5	20.0	20.0	21.2	20.4	21.6	22.0
4H	2H	15.7	17.2	16.1	17.5	17.9	16.3	17.7	16.7	18.1	18.5
	3H	17.7	18.9	18.1	19.3	19.7	18.7	19.8	19.1	20.2	20.6
	4H	18.5	19.6	18.9	20.0	20.4	19.7	20.8	20.1	21.2	21.6
	6H	19.0	20.0	19.5	20.4	20.9	20.6	21.6	21.1	22.0	22.5
	8H	19.2	20.1	19.6	20.5	21.0	21.0	21.9	21.5	22.3	22.8
	12H	19.3	20.1	19.7	20.5	21.0	21.3	22.1	21.8	22.6	23.0
8H	4H	18.9	19.8	19.4	20.3	20.7	20.0	20.9	20.4	21.3	21.8
	6H	19.6	20.4	20.1	20.9	21.3	21.1	21.8	21.6	22.3	22.8
	8H	19.8	20.5	20.3	21.0	21.5	21.6	22.2	22.1	22.7	23.2
	12H	20.0	20.6	20.5	21.1	21.6	21.9	22.5	22.4	23.0	23.6
12H	4H	19.0	19.8	19.5	20.3	20.8	20.0	20.8	20.5	21.3	21.8
	6H	19.8	20.4	20.3	20.9	21.4	21.1	21.8	21.7	22.3	22.8
	8H	20.0	20.6	20.5	21.1	21.7	21.7	22.3	22.2	22.8	23.3

(END OF REPORT)