

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: P1589825

Luminaire Tested: 24CZSP-SB-52-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589825
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-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

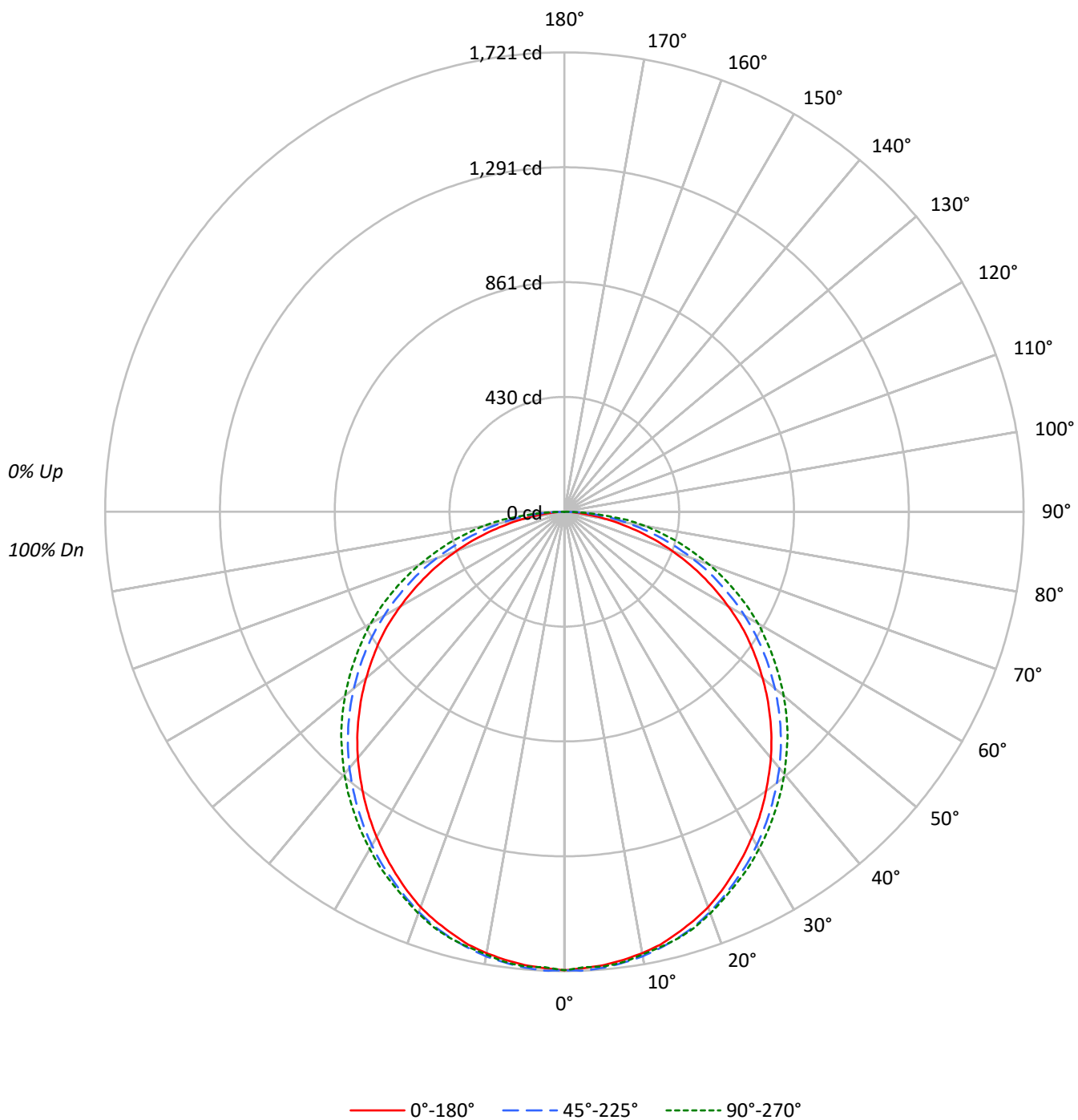
Lumens per Lamp: N/A
Luminaire Lumens: 5012.0 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2630	2630	2630
5°	2621	2636	2629
10°	2612	2630	2620
15°	2592	2619	2622
20°	2569	2600	2609
25°	2528	2572	2590
30°	2488	2552	2580
35°	2448	2527	2571
40°	2407	2505	2564
45°	2362	2481	2562
50°	2310	2454	2556
55°	2257	2428	2555
60°	2174	2391	2570
65°	2072	2345	2572
70°	1933	2280	2579
75°	1720	2197	2624
80°	1413	2105	2723
85°	931	1975	2460

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2788 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.5	3.2
10°-20°	465.0	9.3
20°-30°	700.9	14.0
30°-40°	844.0	16.8
40°-50°	881.8	17.6
50°-60°	810.1	16.2
60°-70°	638.0	12.7
70°-80°	391.1	7.8
80°-90°	118.6	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°	1328.3	26.5
0°-40°	2172.4	43.3
0°-60°	3864.3	77.1
0°-90°	5012.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1717	1717	1717	1717	1717	
5°	1705	1708	1714	1712	1710	162
15°	1635	1641	1652	1658	1654	461
25°	1496	1505	1522	1538	1533	690
35°	1309	1326	1351	1376	1375	819
45°	1090	1114	1146	1178	1183	841
55°	845	870	909	948	957	754
65°	572	602	647	691	710	565
75°	291	325	371	416	443	309
85°	53	78	112	125	140	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1717.4	1717.4	1717.4	1717.4	1717.4
2.5°	1711.0	1715.3	1720.6	1712.1	1707.9
5°	1704.7	1707.9	1714.2	1712.1	1710.0
7.5°	1693.0	1695.1	1703.6	1703.6	1701.5
10°	1679.2	1683.5	1690.9	1689.8	1684.5
12.5°	1661.2	1664.4	1672.9	1672.9	1669.7
15°	1634.7	1641.0	1651.6	1658.0	1653.8
17.5°	1607.1	1613.5	1627.2	1633.6	1631.5
20°	1576.3	1581.6	1595.4	1605.0	1600.7
22.5°	1538.1	1544.5	1560.4	1571.0	1566.8
25°	1495.7	1505.3	1522.2	1538.1	1532.8
27.5°	1453.3	1463.9	1485.1	1501.0	1498.9
30°	1406.6	1420.4	1442.7	1462.8	1458.6
32.5°	1358.9	1374.8	1398.1	1419.3	1418.3
35°	1309.0	1326.0	1351.4	1375.8	1374.8
37.5°	1256.0	1276.1	1302.6	1329.2	1330.2
40°	1204.0	1223.1	1252.8	1281.4	1282.5
42.5°	1148.8	1169.0	1200.8	1230.5	1231.6
45°	1090.5	1113.8	1145.6	1177.5	1182.8
47.5°	1031.1	1055.5	1088.4	1122.3	1128.7
50°	969.6	995.0	1030.0	1066.1	1072.5
52.5°	907.0	933.5	969.6	1005.6	1015.2
55°	845.4	869.8	909.1	948.3	956.8
57.5°	780.7	803.0	845.4	886.8	897.4
60°	709.7	737.2	780.7	822.1	839.1
62.5°	640.7	670.4	715.0	756.3	775.4
65°	571.8	601.5	647.1	690.6	709.7
67.5°	501.8	532.5	581.3	622.7	643.9
70°	431.7	462.5	509.2	553.7	576.0
72.5°	361.7	394.6	440.2	485.8	508.1
75°	290.7	324.6	371.3	415.8	443.4
77.5°	223.8	256.7	303.4	349.0	372.3
80°	160.2	193.1	238.7	284.3	308.7
82.5°	101.8	132.6	177.2	215.3	237.6
85°	53.0	78.5	112.4	125.2	140.0
87.5°	15.9	30.8	43.5	48.8	60.5
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	14.9	16.5	15.2	16.9	17.2	15.6	17.3	16.0	17.6	17.9
	3H	16.6	18.1	17.0	18.5	18.8	17.7	19.2	18.1	19.5	19.9
	4H	17.3	18.7	17.7	19.0	19.4	18.6	20.0	19.0	20.4	20.7
	6H	17.7	19.0	18.1	19.4	19.7	19.4	20.7	19.8	21.1	21.4
	8H	17.8	19.0	18.2	19.4	19.8	19.7	20.9	20.1	21.3	21.7
	12H	17.8	19.0	18.3	19.4	19.9	19.9	21.1	20.3	21.5	21.9
4H	2H	15.6	17.1	16.0	17.4	17.8	16.2	17.6	16.6	18.0	18.4
	3H	17.6	18.8	18.0	19.2	19.6	18.6	19.8	19.0	20.1	20.5
	4H	18.4	19.5	18.8	19.9	20.3	19.6	20.7	20.0	21.1	21.5
	6H	18.9	19.9	19.4	20.3	20.8	20.5	21.5	21.0	21.9	22.4
	8H	19.1	20.0	19.5	20.4	20.9	20.9	21.8	21.4	22.2	22.7
	12H	19.2	20.0	19.6	20.4	20.9	21.2	22.0	21.7	22.5	22.9
8H	4H	18.8	19.7	19.3	20.2	20.6	19.9	20.8	20.3	21.2	21.7
	6H	19.5	20.3	20.0	20.8	21.2	21.0	21.7	21.5	22.2	22.7
	8H	19.7	20.4	20.2	20.9	21.4	21.5	22.1	22.0	22.6	23.1
	12H	19.9	20.5	20.4	21.0	21.5	21.8	22.4	22.3	22.9	23.5
12H	4H	18.9	19.7	19.4	20.2	20.7	19.9	20.7	20.4	21.2	21.7
	6H	19.7	20.3	20.2	20.8	21.3	21.0	21.7	21.6	22.2	22.7
	8H	19.9	20.5	20.4	21.0	21.6	21.6	22.2	22.1	22.7	23.2

(END OF REPORT)