

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: P1589844

Luminaire Tested: 24CZSP-SB-52HE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-52HE-L935-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

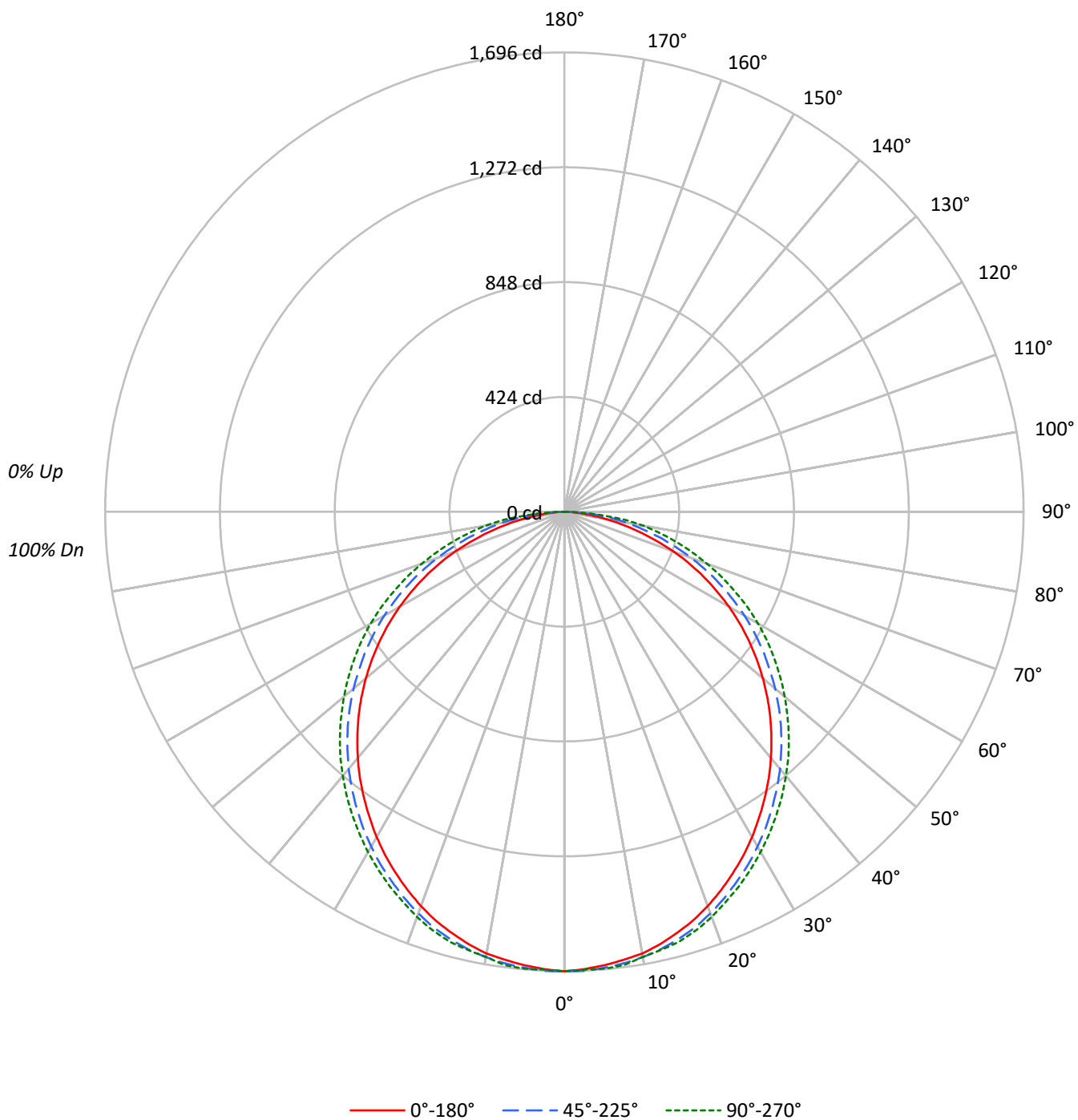
Lumens per Lamp: N/A
Luminaire Lumens: 4935.0 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	94	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	69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	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°	2598	2598	2598
5°	2584	2598	2603
10°	2576	2597	2596
15°	2552	2589	2604
20°	2525	2571	2594
25°	2488	2546	2578
30°	2452	2523	2565
35°	2412	2499	2553
40°	2373	2477	2545
45°	2329	2451	2539
50°	2279	2421	2532
55°	2222	2390	2529
60°	2153	2354	2530
65°	2055	2305	2516
70°	1921	2235	2510
75°	1703	2149	2519
80°	1386	2041	2594
85°	896	1884	2239

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2628 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	3.3
10°-20°	459.7	9.3
20°-30°	693.2	14.0
30°-40°	834.1	16.9
40°-50°	870.0	17.6
50°-60°	797.4	16.2
60°-70°	626.2	12.7
70°-80°	381.1	7.7
80°-90°	112.7	2.3
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°	1313.5	26.6
0°-40°	2147.5	43.5
0°-60°	3814.9	77.3
0°-90°	4935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1696	1696	1696	1696	1696	
5°	1681	1691	1690	1688	1693	160
15°	1609	1625	1633	1635	1642	454
25°	1472	1493	1506	1516	1526	679
35°	1290	1310	1337	1356	1365	807
45°	1075	1098	1132	1158	1172	829
55°	832	854	895	931	947	744
65°	567	588	636	678	694	561
75°	288	314	363	407	426	305
85°	51	72	107	120	127	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1696.5	1696.5	1696.5	1696.5	1696.5
2.5°	1690.1	1698.6	1696.5	1689.1	1692.2
5°	1680.6	1691.2	1690.1	1688.0	1693.3
7.5°	1668.9	1680.6	1681.6	1681.6	1688.0
10°	1656.1	1667.8	1669.9	1666.8	1668.9
12.5°	1634.9	1648.7	1653.0	1653.0	1656.1
15°	1609.4	1625.4	1632.8	1634.9	1642.3
17.5°	1581.8	1598.8	1608.4	1613.7	1620.0
20°	1548.9	1567.0	1577.6	1583.9	1591.4
22.5°	1511.8	1531.9	1543.6	1550.0	1558.5
25°	1472.5	1492.6	1506.5	1516.0	1525.6
27.5°	1431.1	1450.2	1469.3	1481.0	1489.5
30°	1386.5	1406.7	1426.8	1441.7	1450.2
32.5°	1338.7	1359.9	1383.3	1399.2	1408.8
35°	1289.9	1310.0	1336.6	1355.7	1365.3
37.5°	1240.0	1261.2	1288.8	1309.0	1320.7
40°	1186.9	1209.2	1238.9	1261.2	1272.9
42.5°	1131.7	1152.9	1185.8	1211.3	1225.1
45°	1075.4	1097.7	1131.7	1158.2	1172.0
47.5°	1017.0	1038.3	1075.4	1106.2	1117.9
50°	956.5	976.7	1016.0	1048.9	1062.7
52.5°	895.0	916.2	955.5	990.5	1005.4
55°	832.3	853.5	895.0	931.0	947.0
57.5°	768.6	789.9	832.3	869.5	888.6
60°	702.8	724.0	768.6	806.8	825.9
62.5°	634.9	657.1	702.8	742.1	762.2
65°	566.9	588.1	635.9	678.4	694.3
67.5°	499.0	520.2	566.9	609.4	628.5
70°	428.9	453.3	499.0	543.6	560.5
72.5°	355.6	383.2	428.9	475.6	492.6
75°	287.7	314.2	363.1	406.6	425.7
77.5°	220.8	249.5	295.1	339.7	358.8
80°	157.1	184.7	231.4	273.9	294.1
82.5°	99.8	124.2	170.9	209.1	224.0
85°	51.0	72.2	107.2	120.0	127.4
87.5°	14.9	25.5	38.2	47.8	53.1
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	14.8	16.5	15.2	16.8	17.1	15.6	17.2	15.9	17.5	17.8
	3H	16.6	18.1	17.0	18.4	18.8	17.6	19.1	18.0	19.5	19.8
	4H	17.2	18.6	17.6	19.0	19.3	18.5	19.9	18.9	20.3	20.6
	6H	17.6	18.9	18.0	19.3	19.7	19.2	20.6	19.7	20.9	21.3
	8H	17.7	19.0	18.1	19.4	19.8	19.5	20.8	20.0	21.2	21.6
	12H	17.8	19.0	18.2	19.4	19.8	19.7	20.9	20.2	21.3	21.7
4H	2H	15.6	17.0	16.0	17.4	17.7	16.2	17.6	16.6	17.9	18.3
	3H	17.6	18.8	18.0	19.2	19.6	18.5	19.7	18.9	20.1	20.5
	4H	18.3	19.4	18.7	19.8	20.3	19.5	20.6	19.9	21.0	21.4
	6H	18.8	19.8	19.3	20.2	20.7	20.4	21.3	20.8	21.8	22.2
	8H	19.0	19.9	19.4	20.3	20.8	20.8	21.7	21.2	22.1	22.6
	12H	19.1	19.9	19.5	20.3	20.8	21.0	21.8	21.5	22.3	22.8
8H	4H	18.8	19.7	19.2	20.1	20.6	19.8	20.7	20.2	21.1	21.6
	6H	19.4	20.2	19.9	20.7	21.1	20.8	21.6	21.3	22.1	22.5
	8H	19.6	20.3	20.1	20.8	21.3	21.3	22.0	21.8	22.5	23.0
	12H	19.8	20.4	20.3	20.9	21.4	21.7	22.3	22.2	22.7	23.3
12H	4H	18.8	19.6	19.3	20.1	20.6	19.8	20.6	20.3	21.1	21.6
	6H	19.6	20.2	20.1	20.7	21.2	20.9	21.6	21.4	22.0	22.6
	8H	19.8	20.4	20.3	20.9	21.5	21.4	22.0	21.9	22.5	23.1

(END OF REPORT)