

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: P1589846

Luminaire Tested: 24CZSP-SB-52HE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589846
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-L940-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

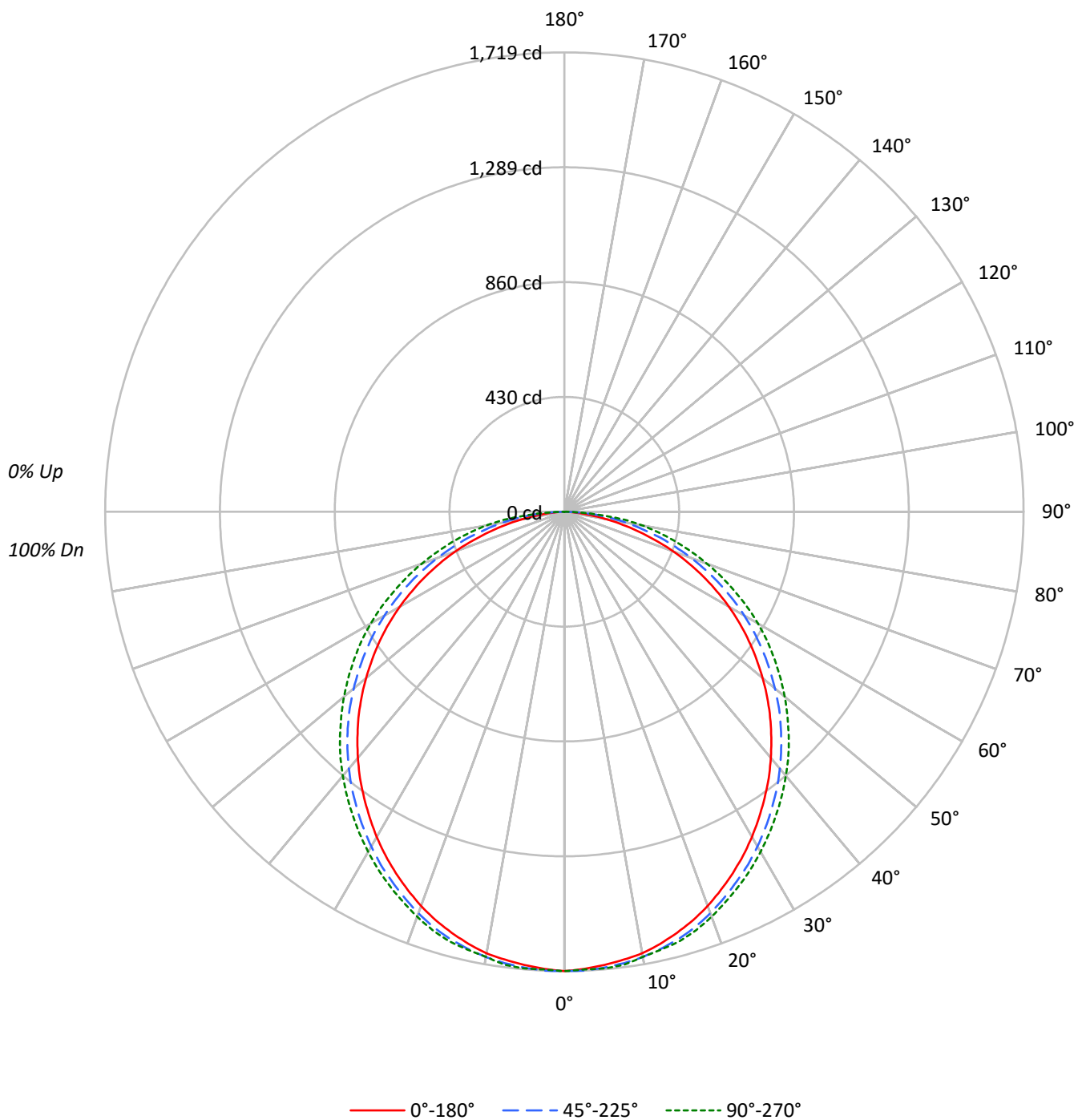
Lumens per Lamp: N/A
Luminaire Lumens: 5000.0 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2633	2633	2633
5°	2618	2633	2638
10°	2610	2631	2630
15°	2586	2623	2639
20°	2558	2605	2628
25°	2521	2579	2612
30°	2484	2557	2599
35°	2444	2532	2586
40°	2404	2510	2579
45°	2360	2484	2572
50°	2309	2453	2566
55°	2252	2421	2562
60°	2181	2385	2563
65°	2082	2335	2549
70°	1946	2264	2543
75°	1725	2177	2552
80°	1404	2068	2628
85°	907	1908	2269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2664 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.7	3.3
10°-20°	465.8	9.3
20°-30°	702.3	14.0
30°-40°	845.0	16.9
40°-50°	881.5	17.6
50°-60°	807.9	16.2
60°-70°	634.4	12.7
70°-80°	386.1	7.7
80°-90°	114.2	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°	1330.8	26.6
0°-40°	2175.8	43.5
0°-60°	3865.2	77.3
0°-90°	5000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5000.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1719	1719	1719	1719	1719	
5°	1703	1713	1712	1710	1716	162
15°	1631	1647	1654	1656	1664	460
25°	1492	1512	1526	1536	1546	688
35°	1307	1327	1354	1374	1383	818
45°	1090	1112	1147	1174	1188	840
55°	843	865	907	943	959	754
65°	574	596	644	687	703	568
75°	292	318	368	412	431	309
85°	52	73	109	122	129	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1718.8	1718.8	1718.8	1718.8	1718.8
2.5°	1712.4	1721.0	1718.8	1711.3	1714.5
5°	1702.7	1713.4	1712.4	1710.2	1715.6
7.5°	1690.9	1702.7	1703.8	1703.8	1710.2
10°	1678.0	1689.8	1691.9	1688.7	1690.9
12.5°	1656.4	1670.4	1674.7	1674.7	1678.0
15°	1630.6	1646.8	1654.3	1656.4	1664.0
17.5°	1602.7	1619.9	1629.6	1634.9	1641.4
20°	1569.3	1587.6	1598.4	1604.8	1612.3
22.5°	1531.7	1552.1	1563.9	1570.4	1579.0
25°	1491.9	1512.3	1526.3	1536.0	1545.7
27.5°	1449.9	1469.3	1488.6	1500.5	1509.1
30°	1404.7	1425.2	1445.6	1460.7	1469.3
32.5°	1356.3	1377.9	1401.5	1417.7	1427.3
35°	1306.9	1327.3	1354.2	1373.6	1383.2
37.5°	1256.3	1277.8	1305.8	1326.2	1338.1
40°	1202.5	1225.1	1255.2	1277.8	1289.7
42.5°	1146.6	1168.1	1201.5	1227.3	1241.3
45°	1089.6	1112.2	1146.6	1173.5	1187.5
47.5°	1030.4	1051.9	1089.6	1120.8	1132.6
50°	969.1	989.6	1029.4	1062.7	1076.7
52.5°	906.7	928.3	968.1	1003.5	1018.6
55°	843.3	864.8	906.7	943.3	959.4
57.5°	778.7	800.3	843.3	880.9	900.3
60°	712.1	733.6	778.7	817.5	836.8
62.5°	643.2	665.8	712.1	751.9	772.3
65°	574.4	595.9	644.3	687.3	703.4
67.5°	505.5	527.0	574.4	617.4	636.8
70°	434.5	459.3	505.5	550.7	567.9
72.5°	360.3	388.3	434.5	481.9	499.1
75°	291.5	318.4	367.9	412.0	431.3
77.5°	223.7	252.8	299.0	344.2	363.6
80°	159.2	187.2	234.5	277.5	297.9
82.5°	101.1	125.8	173.2	211.9	227.0
85°	51.6	73.1	108.6	121.5	129.1
87.5°	15.1	25.8	38.7	48.4	53.8
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	16.8	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	17.6	19.0	19.4	18.5	20.0	18.9	20.3	20.7
	6H	17.7	19.0	18.1	19.3	19.7	19.3	20.6	19.7	21.0	21.4
	8H	17.8	19.0	18.2	19.4	19.8	19.6	20.8	20.0	21.2	21.6
	12H	17.8	19.0	18.2	19.4	19.8	19.8	21.0	20.2	21.4	21.8
4H	2H	15.6	17.1	16.0	17.4	17.8	16.2	17.6	16.6	18.0	18.3
	3H	17.6	18.8	18.0	19.2	19.6	18.5	19.7	18.9	20.1	20.5
	4H	18.4	19.4	18.8	19.9	20.3	19.5	20.6	20.0	21.0	21.5
	6H	18.9	19.8	19.3	20.3	20.7	20.4	21.4	20.9	21.8	22.3
	8H	19.0	19.9	19.5	20.4	20.8	20.8	21.7	21.3	22.1	22.6
	12H	19.1	19.9	19.6	20.4	20.9	21.1	21.9	21.5	22.3	22.8
8H	4H	18.8	19.7	19.3	20.1	20.6	19.8	20.7	20.3	21.2	21.6
	6H	19.5	20.2	20.0	20.7	21.2	20.9	21.6	21.4	22.1	22.6
	8H	19.7	20.3	20.2	20.9	21.3	21.4	22.0	21.9	22.5	23.0
	12H	19.8	20.4	20.3	20.9	21.5	21.7	22.3	22.2	22.8	23.4
12H	4H	18.9	19.7	19.4	20.2	20.6	19.9	20.7	20.3	21.1	21.6
	6H	19.6	20.3	20.1	20.7	21.3	21.0	21.6	21.5	22.1	22.6
	8H	19.9	20.5	20.4	21.0	21.5	21.5	22.1	22.0	22.6	23.1

(END OF REPORT)