

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: P1589990

Luminaire Tested: 24CZSP-SB-70VHE-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589990
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-70VHE-L950-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 7500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

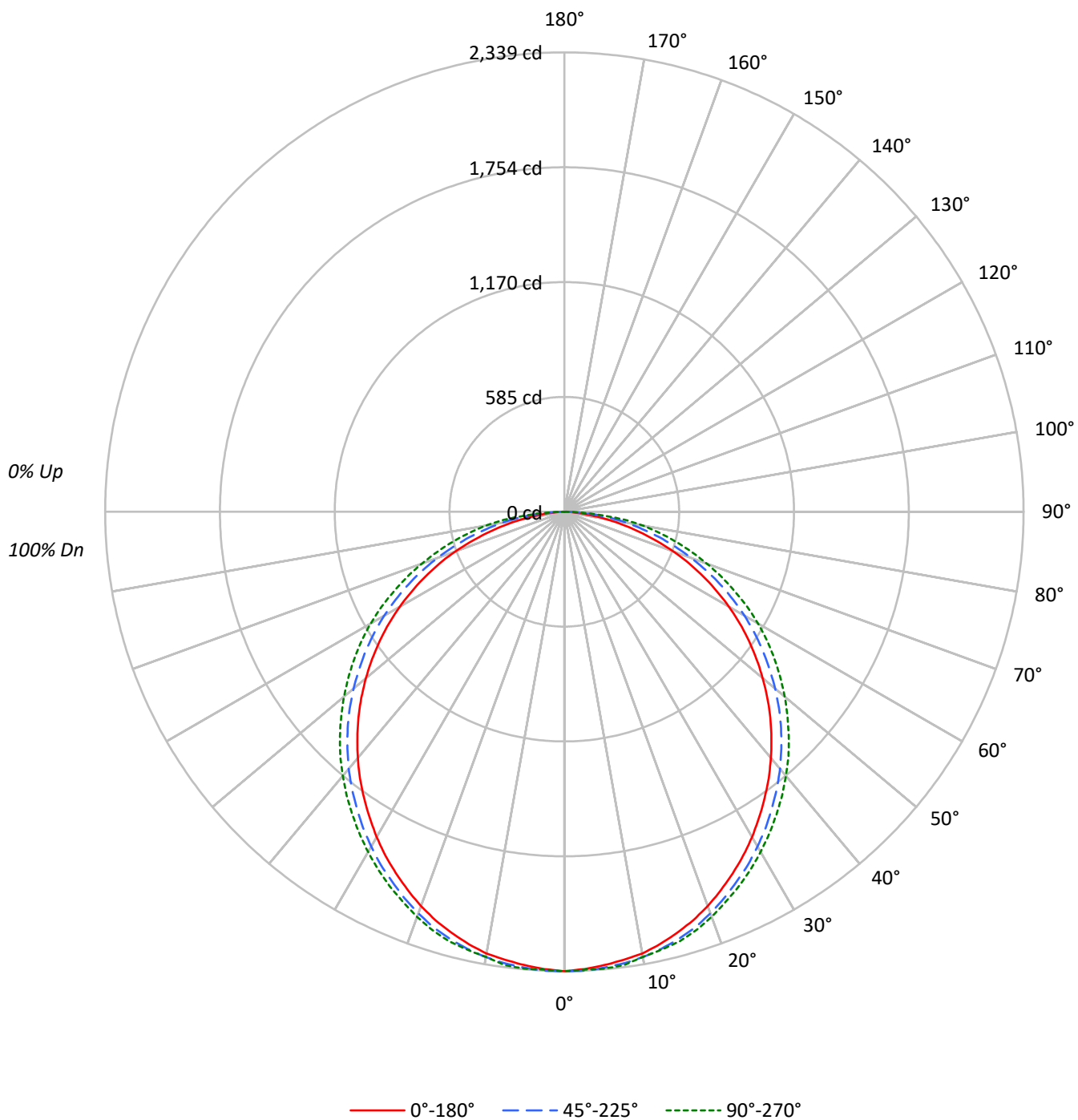
Lumens per Lamp: N/A
Luminaire Lumens: 6805.0 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 53.3
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°	3583	3583	3583
5°	3563	3583	3590
10°	3552	3581	3579
15°	3519	3570	3591
20°	3481	3546	3577
25°	3431	3511	3555
30°	3381	3480	3537
35°	3326	3446	3520
40°	3272	3416	3509
45°	3212	3380	3501
50°	3143	3338	3492
55°	3065	3295	3487
60°	2969	3247	3489
65°	2833	3178	3470
70°	2648	3081	3461
75°	2348	2963	3474
80°	1911	2815	3577
85°	1235	2599	3088

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3625 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.4	3.3
10°-20°	633.9	9.3
20°-30°	955.8	14.0
30°-40°	1150.1	16.9
40°-50°	1199.7	17.6
50°-60°	1099.6	16.2
60°-70°	863.5	12.7
70°-80°	525.5	7.7
80°-90°	155.5	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°	1811.1	26.6
0°-40°	2961.3	43.5
0°-60°	5260.5	77.3
0°-90°	6805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6805.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2339	2339	2339	2339	2339	
5°	2317	2332	2330	2328	2335	220
15°	2219	2241	2252	2254	2265	626
25°	2030	2058	2077	2090	2104	936
35°	1779	1806	1843	1869	1883	1113
45°	1483	1514	1560	1597	1616	1144
55°	1148	1177	1234	1284	1306	1026
65°	782	811	877	935	957	773
75°	397	433	501	561	587	421
85°	70	100	148	165	176	92
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2339.3	2339.3	2339.3	2339.3	2339.3
2.5°	2330.5	2342.3	2339.3	2329.1	2333.5
5°	2317.4	2332.0	2330.5	2327.6	2334.9
7.5°	2301.3	2317.4	2318.8	2318.8	2327.6
10°	2283.7	2299.8	2302.7	2298.3	2301.3
12.5°	2254.4	2273.4	2279.3	2279.3	2283.7
15°	2219.3	2241.2	2251.5	2254.4	2264.7
17.5°	2181.2	2204.6	2217.8	2225.1	2233.9
20°	2135.8	2160.7	2175.4	2184.1	2194.4
22.5°	2084.6	2112.4	2128.5	2137.3	2149.0
25°	2030.4	2058.3	2077.3	2090.5	2103.6
27.5°	1973.3	1999.7	2026.0	2042.2	2053.9
30°	1911.9	1939.7	1967.5	1988.0	1999.7
32.5°	1846.0	1875.3	1907.5	1929.4	1942.6
35°	1778.6	1806.5	1843.1	1869.4	1882.6
37.5°	1709.8	1739.1	1777.2	1805.0	1821.1
40°	1636.6	1667.4	1708.4	1739.1	1755.2
42.5°	1560.5	1589.8	1635.2	1670.3	1689.3
45°	1482.9	1513.7	1560.5	1597.1	1616.2
47.5°	1402.4	1431.7	1482.9	1525.4	1541.5
50°	1319.0	1346.8	1401.0	1446.3	1465.4
52.5°	1234.1	1263.4	1317.5	1365.8	1386.3
55°	1147.7	1177.0	1234.1	1283.8	1305.8
57.5°	1059.9	1089.1	1147.7	1198.9	1225.3
60°	969.1	998.4	1059.9	1112.6	1138.9
62.5°	875.4	906.2	969.1	1023.3	1051.1
65°	781.7	811.0	876.9	935.4	957.4
67.5°	688.0	717.3	781.7	840.3	866.6
70°	591.4	625.1	688.0	749.5	772.9
72.5°	490.4	528.5	591.4	655.8	679.3
75°	396.7	433.3	500.7	560.7	587.0
77.5°	304.5	344.0	407.0	468.5	494.8
80°	216.7	254.7	319.1	377.7	405.5
82.5°	137.6	171.3	235.7	288.4	308.9
85°	70.3	99.5	147.9	165.4	175.7
87.5°	20.5	35.1	52.7	65.9	73.2
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	15.9	17.6	16.3	17.9	18.2	16.7	18.3	17.0	18.6	19.0
	3H	17.7	19.2	18.1	19.5	19.9	18.7	20.3	19.1	20.6	20.9
	4H	18.3	19.7	18.7	20.1	20.5	19.6	21.0	20.0	21.4	21.8
	6H	18.7	20.0	19.1	20.4	20.8	20.4	21.7	20.8	22.0	22.4
	8H	18.8	20.1	19.3	20.5	20.9	20.7	21.9	21.1	22.3	22.7
	12H	18.9	20.1	19.3	20.5	20.9	20.8	22.1	21.3	22.4	22.9
4H	2H	16.7	18.1	17.1	18.5	18.8	17.3	18.7	17.7	19.0	19.4
	3H	18.7	19.9	19.1	20.3	20.7	19.6	20.8	20.0	21.2	21.6
	4H	19.4	20.5	19.9	20.9	21.4	20.6	21.7	21.0	22.1	22.5
	6H	20.0	20.9	20.4	21.4	21.8	21.5	22.5	22.0	22.9	23.4
	8H	20.1	21.0	20.6	21.4	21.9	21.9	22.8	22.3	23.2	23.7
	12H	20.2	21.0	20.7	21.5	21.9	22.1	22.9	22.6	23.4	23.9
8H	4H	19.9	20.8	20.3	21.2	21.7	20.9	21.8	21.4	22.2	22.7
	6H	20.5	21.3	21.0	21.8	22.2	22.0	22.7	22.5	23.2	23.7
	8H	20.8	21.4	21.3	21.9	22.4	22.4	23.1	22.9	23.6	24.1
	12H	20.9	21.5	21.4	22.0	22.5	22.8	23.4	23.3	23.9	24.4
12H	4H	20.0	20.8	20.4	21.2	21.7	20.9	21.7	21.4	22.2	22.7
	6H	20.7	21.4	21.2	21.8	22.3	22.0	22.7	22.5	23.2	23.7
	8H	20.9	21.5	21.5	22.0	22.6	22.5	23.1	23.1	23.6	24.2

(END OF REPORT)