

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: P1589991

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589991
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-70VHE-L950
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 7500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

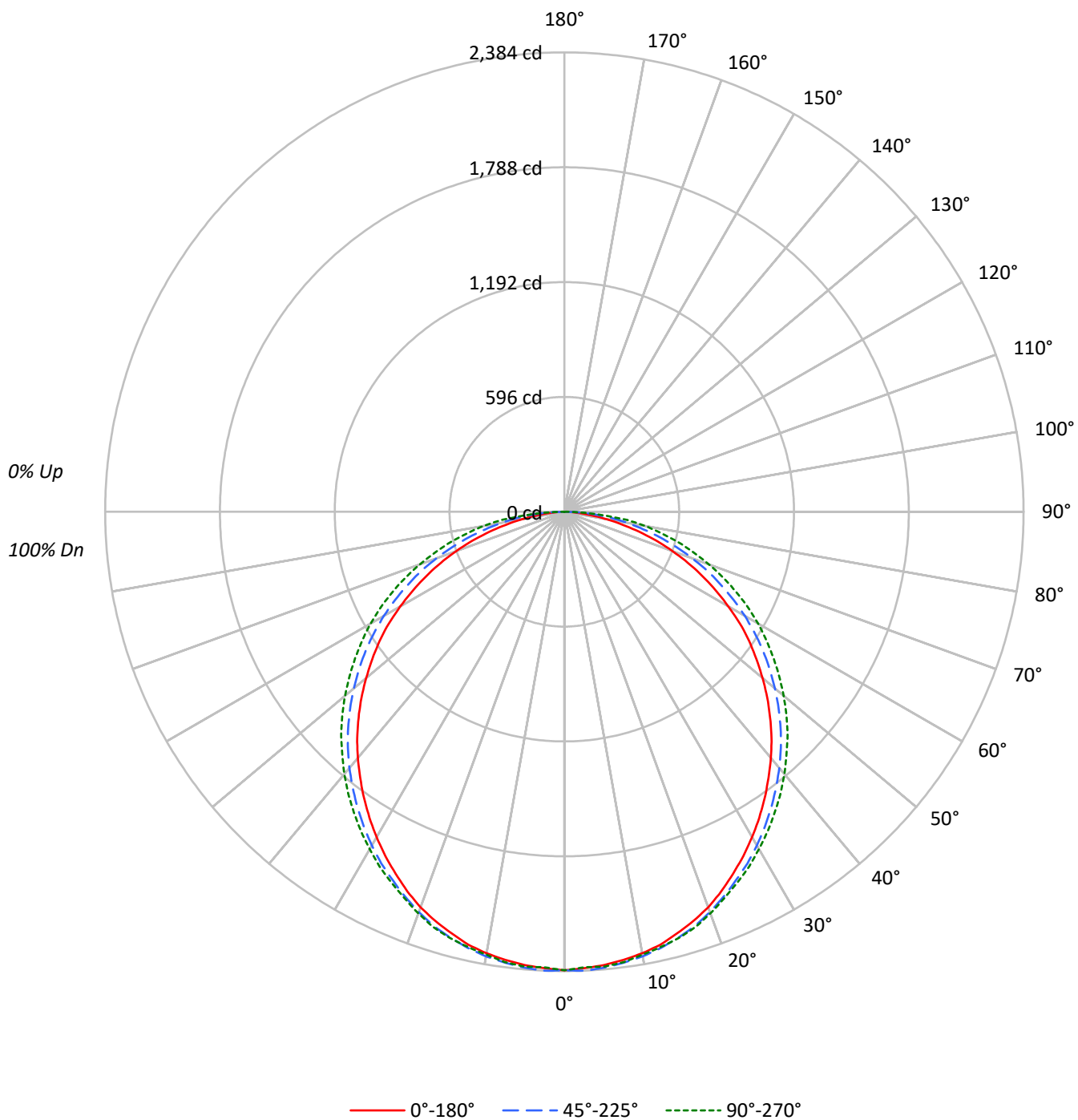
Lumens per Lamp: N/A
Luminaire Lumens: 6944.0 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3644	3644	3644
5°	3631	3652	3642
10°	3618	3643	3630
15°	3591	3628	3633
20°	3560	3603	3615
25°	3502	3564	3589
30°	3447	3535	3574
35°	3391	3501	3561
40°	3335	3470	3553
45°	3272	3438	3549
50°	3201	3400	3541
55°	3128	3363	3540
60°	3012	3314	3561
65°	2871	3249	3563
70°	2679	3159	3574
75°	2383	3044	3635
80°	1957	2917	3772
85°	1292	2738	3409

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3863 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.1	3.2
10°-20°	644.3	9.3
20°-30°	971.1	14.0
30°-40°	1169.4	16.8
40°-50°	1221.7	17.6
50°-60°	1122.4	16.2
60°-70°	883.9	12.7
70°-80°	541.9	7.8
80°-90°	164.3	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°	1840.4	26.5
0°-40°	3009.8	43.3
0°-60°	5353.9	77.1
0°-90°	6944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6944.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2379	2379	2379	2379	2379	
5°	2362	2366	2375	2372	2369	224
15°	2265	2274	2288	2297	2291	639
25°	2072	2086	2109	2131	2124	955
35°	1814	1837	1872	1906	1905	1134
45°	1511	1543	1587	1631	1639	1165
55°	1171	1205	1260	1314	1326	1045
65°	792	833	896	957	983	783
75°	403	450	514	576	614	428
85°	74	109	156	173	194	94
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2379.4	2379.4	2379.4	2379.4	2379.4
2.5°	2370.6	2376.5	2383.8	2372.1	2366.2
5°	2361.8	2366.2	2375.0	2372.1	2369.1
7.5°	2345.6	2348.6	2360.3	2360.3	2357.4
10°	2326.5	2332.4	2342.7	2341.2	2333.9
12.5°	2301.5	2305.9	2317.7	2317.7	2313.3
15°	2264.8	2273.6	2288.3	2297.1	2291.2
17.5°	2226.6	2235.4	2254.5	2263.3	2260.4
20°	2184.0	2191.3	2210.4	2223.6	2217.8
22.5°	2131.1	2139.9	2161.9	2176.6	2170.7
25°	2072.3	2085.5	2109.0	2131.1	2123.7
27.5°	2013.5	2028.2	2057.6	2079.6	2076.7
30°	1948.8	1967.9	1998.8	2026.7	2020.8
32.5°	1882.7	1904.7	1937.1	1966.4	1965.0
35°	1813.6	1837.1	1872.4	1906.2	1904.7
37.5°	1740.1	1768.0	1804.8	1841.5	1843.0
40°	1668.1	1694.6	1735.7	1775.4	1776.9
42.5°	1591.7	1619.6	1663.7	1704.8	1706.3
45°	1510.8	1543.2	1587.3	1631.4	1638.7
47.5°	1428.5	1462.3	1507.9	1554.9	1563.8
50°	1343.3	1378.6	1427.1	1477.0	1485.9
52.5°	1256.6	1293.3	1343.3	1393.3	1406.5
55°	1171.3	1205.1	1259.5	1313.9	1325.7
57.5°	1081.7	1112.6	1171.3	1228.7	1243.4
60°	983.2	1021.4	1081.7	1139.0	1162.5
62.5°	887.7	928.8	990.6	1047.9	1074.3
65°	792.2	833.3	896.5	956.8	983.2
67.5°	695.2	737.8	805.4	862.7	892.1
70°	598.2	640.8	705.5	767.2	798.0
72.5°	501.2	546.7	609.9	673.1	704.0
75°	402.7	449.7	514.4	576.1	614.3
77.5°	310.1	355.7	420.3	483.5	515.9
80°	221.9	267.5	330.7	393.9	427.7
82.5°	141.1	183.7	245.4	298.3	329.2
85°	73.5	108.8	155.8	173.4	194.0
87.5°	22.0	42.6	60.3	67.6	83.8
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	16.0	17.7	16.4	18.0	18.3	16.8	18.4	17.1	18.7	19.0
	3H	17.8	19.3	18.1	19.6	20.0	18.8	20.4	19.2	20.7	21.0
	4H	18.4	19.8	18.8	20.2	20.5	19.7	21.2	20.1	21.5	21.9
	6H	18.8	20.1	19.2	20.5	20.9	20.5	21.8	20.9	22.2	22.6
	8H	18.9	20.2	19.3	20.6	21.0	20.8	22.1	21.2	22.5	22.9
	12H	19.0	20.2	19.4	20.6	21.0	21.0	22.2	21.5	22.6	23.0
4H	2H	16.8	18.2	17.2	18.5	18.9	17.4	18.8	17.8	19.1	19.5
	3H	18.8	20.0	19.2	20.4	20.8	19.7	20.9	20.1	21.3	21.7
	4H	19.5	20.6	20.0	21.0	21.5	20.7	21.8	21.1	22.2	22.7
	6H	20.1	21.0	20.5	21.5	21.9	21.7	22.6	22.1	23.0	23.5
	8H	20.2	21.1	20.7	21.5	22.0	22.0	22.9	22.5	23.4	23.8
	12H	20.3	21.1	20.8	21.6	22.0	22.3	23.1	22.8	23.6	24.1
8H	4H	20.0	20.9	20.4	21.3	21.8	21.0	21.9	21.5	22.4	22.8
	6H	20.7	21.4	21.1	21.9	22.4	22.1	22.8	22.6	23.3	23.8
	8H	20.9	21.5	21.4	22.0	22.5	22.6	23.3	23.1	23.8	24.2
	12H	21.0	21.6	21.5	22.1	22.7	23.0	23.6	23.5	24.0	24.6
12H	4H	20.1	20.9	20.5	21.3	21.8	21.0	21.9	21.5	22.3	22.8
	6H	20.8	21.5	21.3	21.9	22.5	22.2	22.8	22.7	23.3	23.8
	8H	21.1	21.7	21.6	22.2	22.7	22.7	23.3	23.2	23.8	24.3

(END OF REPORT)