

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: P1589982

Luminaire Tested: 24CZSP-SB-70VHE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589982
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-L930-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 7500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

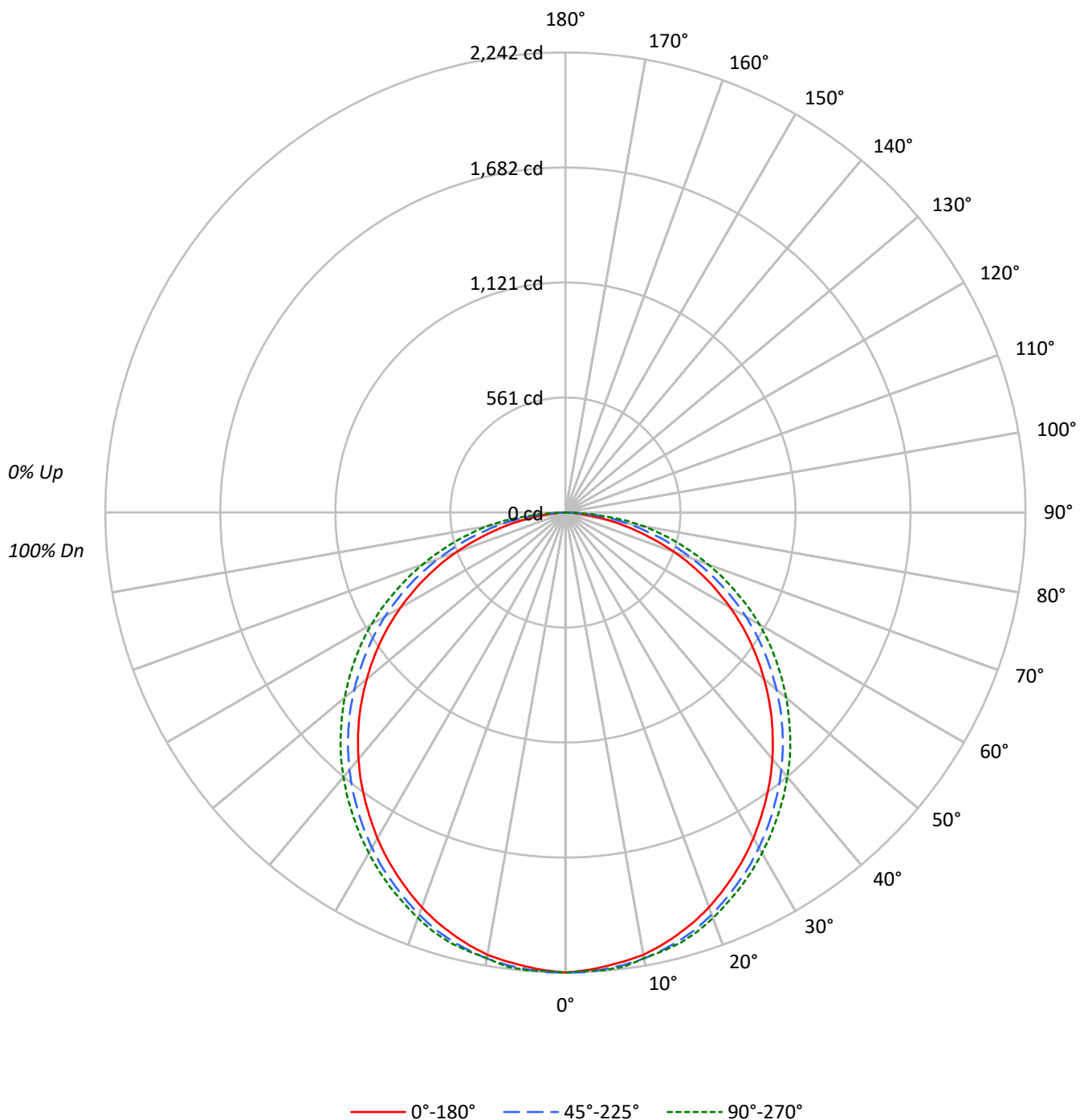
Lumens per Lamp: N/A
Luminaire Lumens: 6522.0 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3434	3434	3434
5°	3415	3434	3441
10°	3404	3432	3430
15°	3373	3422	3442
20°	3336	3398	3428
25°	3289	3365	3407
30°	3241	3335	3389
35°	3187	3303	3374
40°	3136	3274	3363
45°	3079	3240	3355
50°	3012	3199	3346
55°	2937	3158	3342
60°	2845	3112	3344
65°	2715	3046	3326
70°	2538	2953	3317
75°	2250	2839	3329
80°	1831	2698	3428
85°	1183	2490	2959

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3473 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.2	3.3
10°-20°	607.6	9.3
20°-30°	916.1	14.0
30°-40°	1102.3	16.9
40°-50°	1149.8	17.6
50°-60°	1053.9	16.2
60°-70°	827.6	12.7
70°-80°	503.7	7.7
80°-90°	149.0	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°	1735.8	26.6
0°-40°	2838.1	43.5
0°-60°	5041.8	77.3
0°-90°	6522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2242	2242	2242	2242	2242	
5°	2221	2235	2234	2231	2238	211
15°	2127	2148	2158	2161	2170	600
25°	1946	1973	1991	2004	2016	897
35°	1705	1731	1766	1792	1804	1067
45°	1421	1451	1496	1531	1549	1096
55°	1100	1128	1183	1230	1252	983
65°	749	777	840	896	918	741
75°	380	415	480	537	563	403
85°	67	95	142	158	168	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2242.0	2242.0	2242.0	2242.0	2242.0
2.5°	2233.6	2244.8	2242.0	2232.2	2236.4
5°	2221.0	2235.0	2233.6	2230.8	2237.8
7.5°	2205.6	2221.0	2222.4	2222.4	2230.8
10°	2188.7	2204.2	2207.0	2202.8	2205.6
12.5°	2160.7	2178.9	2184.5	2184.5	2188.7
15°	2127.0	2148.0	2157.9	2160.7	2170.5
17.5°	2090.5	2113.0	2125.6	2132.6	2141.0
20°	2047.0	2070.9	2084.9	2093.3	2103.1
22.5°	1997.9	2024.6	2040.0	2048.4	2059.6
25°	1946.0	1972.7	1990.9	2003.5	2016.2
27.5°	1891.3	1916.5	1941.8	1957.2	1968.4
30°	1832.4	1859.0	1885.7	1905.3	1916.5
32.5°	1769.2	1797.3	1828.1	1849.2	1861.8
35°	1704.7	1731.3	1766.4	1791.7	1804.3
37.5°	1638.7	1666.8	1703.3	1729.9	1745.4
40°	1568.6	1598.0	1637.3	1666.8	1682.2
42.5°	1495.6	1523.7	1567.2	1600.9	1619.1
45°	1421.3	1450.7	1495.6	1530.7	1548.9
47.5°	1344.1	1372.2	1421.3	1462.0	1477.4
50°	1264.1	1290.8	1342.7	1386.2	1404.4
52.5°	1182.8	1210.8	1262.7	1309.0	1328.7
55°	1100.0	1128.0	1182.8	1230.5	1251.5
57.5°	1015.8	1043.9	1100.0	1149.1	1174.3
60°	928.8	956.9	1015.8	1066.3	1091.6
62.5°	839.0	868.5	928.8	980.7	1007.4
65°	749.2	777.3	840.4	896.5	917.6
67.5°	659.4	687.5	749.2	805.3	830.6
70°	566.8	599.1	659.4	718.4	740.8
72.5°	470.0	506.5	566.8	628.6	651.0
75°	380.2	415.3	479.8	537.4	562.6
77.5°	291.8	329.7	390.0	449.0	474.2
80°	207.6	244.1	305.9	362.0	388.6
82.5°	131.9	164.2	225.9	276.4	296.0
85°	67.3	95.4	141.7	158.5	168.4
87.5°	19.6	33.7	50.5	63.1	70.2
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	15.8	17.4	16.2	17.8	18.1	16.5	18.2	16.9	18.5	18.8
	3H	17.6	19.1	17.9	19.4	19.7	18.6	20.1	19.0	20.4	20.8
	4H	18.2	19.6	18.6	19.9	20.3	19.5	20.9	19.9	21.2	21.6
	6H	18.6	19.9	19.0	20.3	20.7	20.2	21.5	20.6	21.9	22.3
	8H	18.7	19.9	19.1	20.3	20.7	20.5	21.8	20.9	22.2	22.6
	12H	18.7	19.9	19.2	20.3	20.8	20.7	21.9	21.1	22.3	22.7
4H	2H	16.6	18.0	17.0	18.3	18.7	17.1	18.5	17.5	18.9	19.3
	3H	18.5	19.7	19.0	20.1	20.5	19.4	20.6	19.8	21.0	21.4
	4H	19.3	20.4	19.7	20.8	21.2	20.5	21.5	20.9	22.0	22.4
	6H	19.8	20.8	20.3	21.2	21.7	21.4	22.3	21.8	22.8	23.2
	8H	20.0	20.8	20.4	21.3	21.8	21.7	22.6	22.2	23.1	23.5
	12H	20.0	20.8	20.5	21.3	21.8	22.0	22.8	22.5	23.3	23.7
8H	4H	19.7	20.6	20.2	21.1	21.5	20.8	21.6	21.2	22.1	22.5
	6H	20.4	21.1	20.9	21.6	22.1	21.8	22.6	22.3	23.0	23.5
	8H	20.6	21.3	21.1	21.8	22.3	22.3	23.0	22.8	23.5	23.9
	12H	20.7	21.3	21.2	21.8	22.4	22.6	23.2	23.1	23.7	24.3
12H	4H	19.8	20.6	20.3	21.1	21.6	20.8	21.6	21.3	22.1	22.5
	6H	20.5	21.2	21.1	21.7	22.2	21.9	22.5	22.4	23.0	23.5
	8H	20.8	21.4	21.3	21.9	22.4	22.4	23.0	22.9	23.5	24.0

(END OF REPORT)