

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1585891

Luminaire Tested: 14CZSP-SB-70VHE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-70VHE-L950
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 7200 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

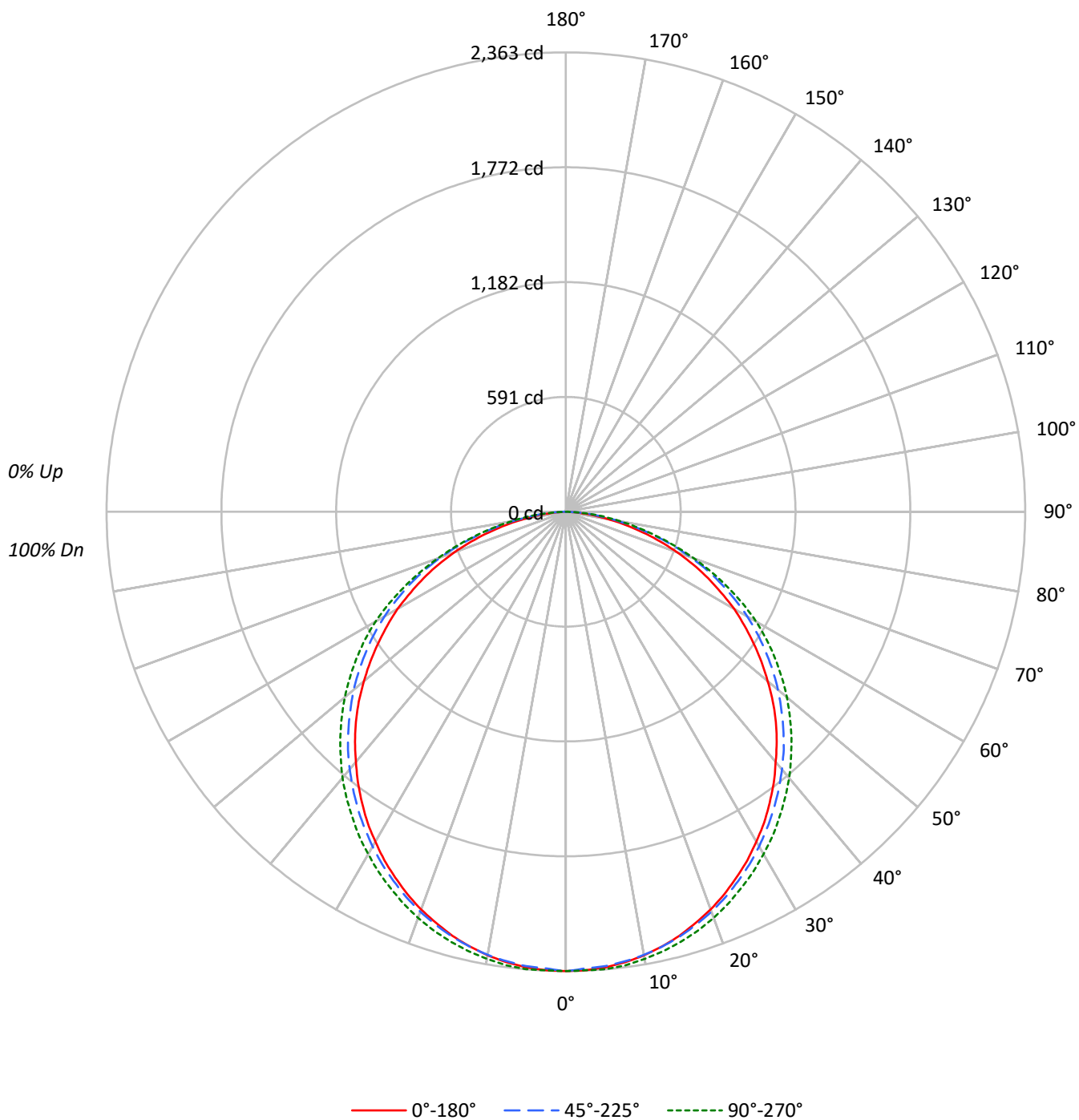
Lumens per Lamp: N/A
Luminaire Lumens: 6826.0 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 51.9
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: 24 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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7962	7962	7962
5°	7956	7936	7989
10°	7926	7920	7990
15°	7876	7893	7985
20°	7806	7852	7972
25°	7721	7794	7940
30°	7625	7735	7912
35°	7519	7672	7883
40°	7387	7608	7863
45°	7281	7539	7820
50°	7108	7468	7783
55°	6926	7370	7723
60°	6739	7263	7620
65°	6437	7071	7330
70°	6006	6752	6916
75°	5351	6119	6299
80°	4370	5303	5571
85°	2888	4218	4523

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7820 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.8	3.3
10°-20°	641.0	9.4
20°-30°	970.5	14.2
30°-40°	1171.5	17.2
40°-50°	1223.4	17.9
50°-60°	1119.1	16.4
60°-70°	865.2	12.7
70°-80°	489.8	7.2
80°-90°	121.7	1.8
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°	1835.3	26.9
0°-40°	3006.8	44.0
0°-60°	5349.3	78.4
0°-90°	6826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2363	2363	2363	2363	2363	
5°	2352	2369	2346	2348	2362	223
15°	2258	2277	2262	2273	2289	637
25°	2077	2103	2096	2116	2136	957
35°	1828	1853	1865	1897	1916	1143
45°	1528	1558	1582	1622	1641	1177
55°	1179	1214	1255	1294	1315	1054
65°	807	841	887	913	919	797
75°	411	446	470	482	484	436
85°	75	86	109	114	117	96
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2362.8	2362.8	2362.8	2362.8	2362.8
2.5°	2359.8	2376.5	2351.0	2355.9	2360.8
5°	2352.0	2368.7	2346.1	2348.0	2361.8
7.5°	2337.2	2355.9	2332.3	2336.2	2352.9
10°	2316.6	2335.2	2314.6	2318.5	2335.2
12.5°	2290.0	2308.7	2291.0	2296.9	2315.6
15°	2257.6	2277.2	2262.5	2273.3	2289.0
17.5°	2218.2	2242.8	2227.1	2243.8	2259.5
20°	2176.9	2201.5	2189.7	2204.5	2223.1
22.5°	2129.7	2154.3	2145.5	2161.2	2181.8
25°	2076.6	2103.2	2096.3	2116.0	2135.6
27.5°	2021.6	2047.1	2045.2	2066.8	2087.5
30°	1959.6	1987.2	1988.1	2013.7	2033.4
32.5°	1897.7	1922.3	1928.2	1956.7	1979.3
35°	1827.9	1853.4	1865.2	1896.7	1916.4
37.5°	1757.1	1785.6	1798.4	1832.8	1853.4
40°	1679.4	1711.9	1729.5	1765.9	1787.6
42.5°	1605.7	1635.2	1658.8	1695.1	1714.8
45°	1528.0	1557.5	1582.1	1622.4	1641.1
47.5°	1444.4	1476.9	1503.4	1542.7	1563.4
50°	1355.9	1391.3	1424.7	1463.1	1484.7
52.5°	1268.4	1302.8	1341.2	1378.5	1400.2
55°	1178.9	1214.3	1254.6	1294.0	1314.6
57.5°	1088.5	1123.9	1168.1	1203.5	1225.1
60°	1000.0	1032.4	1077.7	1113.0	1130.7
62.5°	899.7	937.0	983.3	1018.7	1028.5
65°	807.3	840.7	886.9	913.4	919.3
67.5°	708.9	742.4	788.6	803.3	812.2
70°	609.6	645.0	685.3	695.2	702.0
72.5°	509.3	545.7	577.2	587.0	592.9
75°	411.0	446.4	470.0	481.8	483.8
77.5°	315.6	348.1	369.7	383.5	383.5
80°	225.2	249.7	273.3	288.1	287.1
82.5°	143.6	162.2	186.8	197.6	204.5
85°	74.7	86.5	109.1	114.1	117.0
87.5°	23.6	30.5	39.3	32.4	31.5
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	18.89	20.54	19.25	20.85	21.17	19.43	21.08	19.79	21.39	21.71
	3H	20.66	22.15	21.04	22.48	22.84	21.29	22.78	21.67	23.11	23.47
	4H	21.28	22.69	21.68	23.04	23.41	21.96	23.37	22.36	23.72	24.09
	6H	21.69	23.00	22.10	23.36	23.75	22.45	23.75	22.86	24.12	24.51
	8H	21.79	23.04	22.21	23.43	23.82	22.60	23.85	23.03	24.24	24.64
	12H	21.84	23.03	22.27	23.42	23.84	22.70	23.90	23.13	24.28	24.71
4H	2H	19.63	21.04	20.03	21.38	21.76	20.05	21.46	20.45	21.80	22.18
	3H	21.62	22.80	22.03	23.20	23.60	22.13	23.31	22.54	23.71	24.11
	4H	22.37	23.44	22.80	23.85	24.29	22.93	24.00	23.36	24.41	24.85
	6H	22.89	23.82	23.34	24.26	24.72	23.54	24.48	24.00	24.92	25.37
	8H	23.02	23.90	23.48	24.34	24.80	23.75	24.62	24.21	25.06	25.53
	12H	23.10	23.89	23.58	24.36	24.83	23.89	24.67	24.36	25.15	25.62
8H	4H	22.72	23.60	23.18	24.04	24.50	23.22	24.09	23.68	24.53	25.00
	6H	23.36	24.08	23.85	24.57	25.05	23.95	24.68	24.44	25.16	25.64
	8H	23.55	24.20	24.06	24.71	25.19	24.22	24.88	24.73	25.38	25.87
	12H	23.68	24.25	24.18	24.74	25.30	24.43	25.01	24.94	25.50	26.06
12H	4H	22.76	23.55	23.24	24.03	24.50	23.24	24.03	23.72	24.50	24.97
	6H	23.42	24.07	23.93	24.58	25.06	23.99	24.65	24.50	25.15	25.64
	8H	23.67	24.25	24.18	24.74	25.30	24.32	24.90	24.83	25.39	25.95