

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: P1585890

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-70VHE-L950-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 7200 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

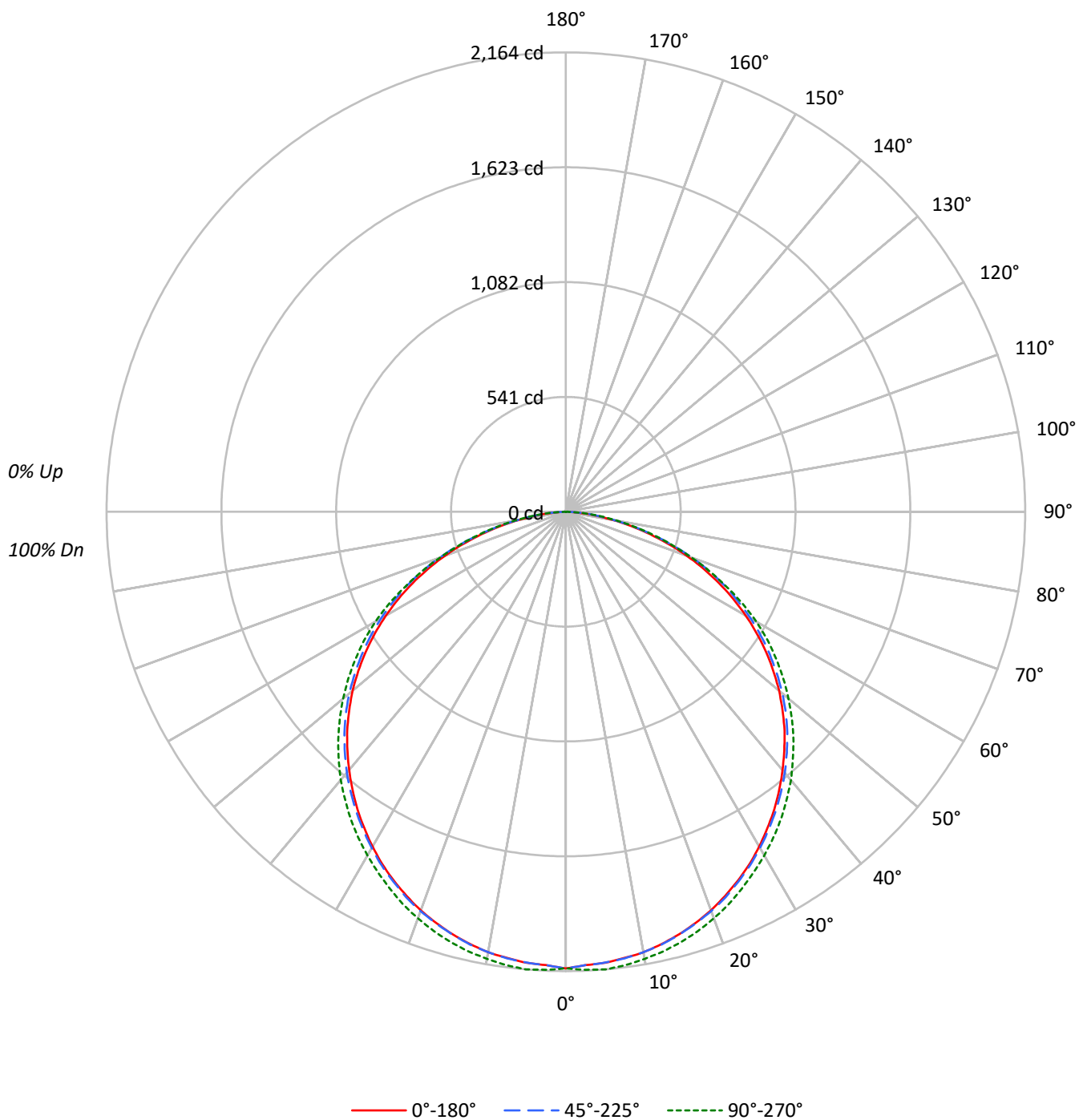
Lumens per Lamp: N/A
Luminaire Lumens: 6348.0 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	99	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39	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°	7248	7248	7248
5°	7213	7210	7319
10°	7211	7207	7317
15°	7189	7195	7321
20°	7166	7180	7309
25°	7130	7148	7286
30°	7088	7118	7273
35°	7041	7085	7269
40°	6986	7059	7256
45°	6944	7031	7226
50°	6874	6981	7180
55°	6767	6892	7110
60°	6603	6774	6983
65°	6355	6595	6665
70°	5975	6253	6215
75°	5365	5593	5632
80°	4432	4659	4904
85°	2969	3456	3646

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7226 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.9	3.2
10°-20°	586.0	9.2
20°-30°	892.4	14.1
30°-40°	1086.1	17.1
40°-50°	1145.0	18.0
50°-60°	1054.6	16.6
60°-70°	814.5	12.8
70°-80°	455.7	7.2
80°-90°	109.8	1.7
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°	1682.3	26.5
0°-40°	2768.4	43.6
0°-60°	4967.9	78.3
0°-90°	6348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6348.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2151	2151	2151	2151	2151	
5°	2133	2163	2132	2135	2164	203
15°	2061	2089	2063	2074	2099	582
25°	1918	1945	1923	1935	1960	884
35°	1712	1737	1722	1744	1767	1071
45°	1457	1478	1476	1498	1516	1123
55°	1152	1171	1173	1198	1210	1028
65°	797	820	827	835	836	787
75°	412	437	430	429	433	437
85°	77	85	89	100	94	98
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2151.1	2151.1	2151.1	2151.1	2151.1
2.5°	2137.5	2168.6	2137.5	2142.4	2159.9
5°	2132.6	2162.8	2131.7	2134.6	2163.7
7.5°	2120.0	2151.1	2121.9	2125.8	2154.0
10°	2107.4	2135.6	2106.4	2111.3	2138.5
12.5°	2086.0	2115.1	2087.9	2093.8	2121.0
15°	2060.7	2088.9	2062.6	2074.3	2098.6
17.5°	2031.5	2058.8	2033.5	2047.1	2070.4
20°	1998.5	2024.7	2002.4	2012.1	2038.3
22.5°	1959.6	1986.8	1965.4	1974.2	2002.4
25°	1917.8	1945.0	1922.7	1935.3	1959.6
27.5°	1872.1	1898.4	1878.9	1894.5	1915.9
30°	1821.6	1846.9	1829.4	1847.8	1869.2
32.5°	1767.2	1794.4	1776.9	1798.3	1819.6
35°	1711.7	1737.0	1722.4	1743.8	1767.2
37.5°	1651.5	1675.8	1665.1	1687.4	1708.8
40°	1588.3	1615.5	1604.8	1628.2	1649.5
42.5°	1523.2	1549.4	1540.7	1565.0	1583.4
45°	1457.1	1477.5	1475.5	1497.9	1516.4
47.5°	1384.2	1409.4	1405.6	1427.9	1444.4
50°	1311.3	1331.7	1331.7	1353.1	1369.6
52.5°	1232.5	1252.9	1252.9	1278.2	1291.8
55°	1151.9	1171.3	1173.2	1197.5	1210.2
57.5°	1066.3	1086.7	1090.6	1114.9	1126.6
60°	979.8	999.2	1005.1	1029.4	1036.2
62.5°	889.4	912.7	915.7	935.1	939.0
65°	797.1	820.4	827.2	835.0	835.9
67.5°	702.8	727.1	733.9	733.9	733.9
70°	606.5	628.9	634.7	630.8	630.8
72.5°	509.3	533.6	530.7	526.8	528.8
75°	412.1	437.4	429.6	428.7	432.6
77.5°	318.8	343.1	330.5	338.3	339.2
80°	228.4	246.9	240.1	251.8	252.7
82.5°	146.8	158.4	160.4	170.1	167.2
85°	76.8	84.6	89.4	100.1	94.3
87.5°	24.3	32.1	29.2	34.0	26.2
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	18.92	20.57	19.28	20.89	21.20	19.13	20.79	19.50	21.10	21.42
	3H	20.74	22.24	21.11	22.56	22.92	20.93	22.43	21.31	22.76	23.12
	4H	21.38	22.80	21.78	23.14	23.52	21.57	22.98	21.97	23.33	23.71
	6H	21.81	23.12	22.22	23.49	23.88	22.02	23.33	22.43	23.70	24.09
	8H	21.92	23.17	22.35	23.56	23.96	22.16	23.41	22.58	23.80	24.19
	12H	21.97	23.17	22.40	23.56	23.98	22.23	23.43	22.66	23.81	24.24
4H	2H	19.60	21.01	19.99	21.36	21.73	19.77	21.18	20.16	21.53	21.90
	3H	21.64	22.82	22.05	23.22	23.62	21.78	22.96	22.19	23.36	23.76
	4H	22.42	23.49	22.85	23.90	24.34	22.54	23.61	22.97	24.02	24.46
	6H	22.97	23.90	23.42	24.34	24.80	23.11	24.05	23.56	24.49	24.94
	8H	23.11	23.99	23.57	24.43	24.90	23.29	24.16	23.75	24.61	25.07
	12H	23.20	23.98	23.68	24.46	24.93	23.40	24.19	23.88	24.66	25.13
8H	4H	22.72	23.60	23.18	24.04	24.51	22.83	23.71	23.29	24.15	24.62
	6H	23.38	24.11	23.88	24.60	25.07	23.51	24.24	24.01	24.73	25.20
	8H	23.59	24.24	24.10	24.75	25.23	23.75	24.41	24.26	24.91	25.40
	12H	23.72	24.30	24.23	24.79	25.35	23.93	24.51	24.44	25.00	25.56
12H	4H	22.75	23.54	23.23	24.02	24.49	22.86	23.65	23.34	24.12	24.59
	6H	23.43	24.08	23.94	24.59	25.07	23.56	24.21	24.06	24.72	25.20
	8H	23.68	24.26	24.19	24.75	25.31	23.85	24.42	24.35	24.91	25.47