

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: P1584490

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-70VHE-L950-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 7200 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

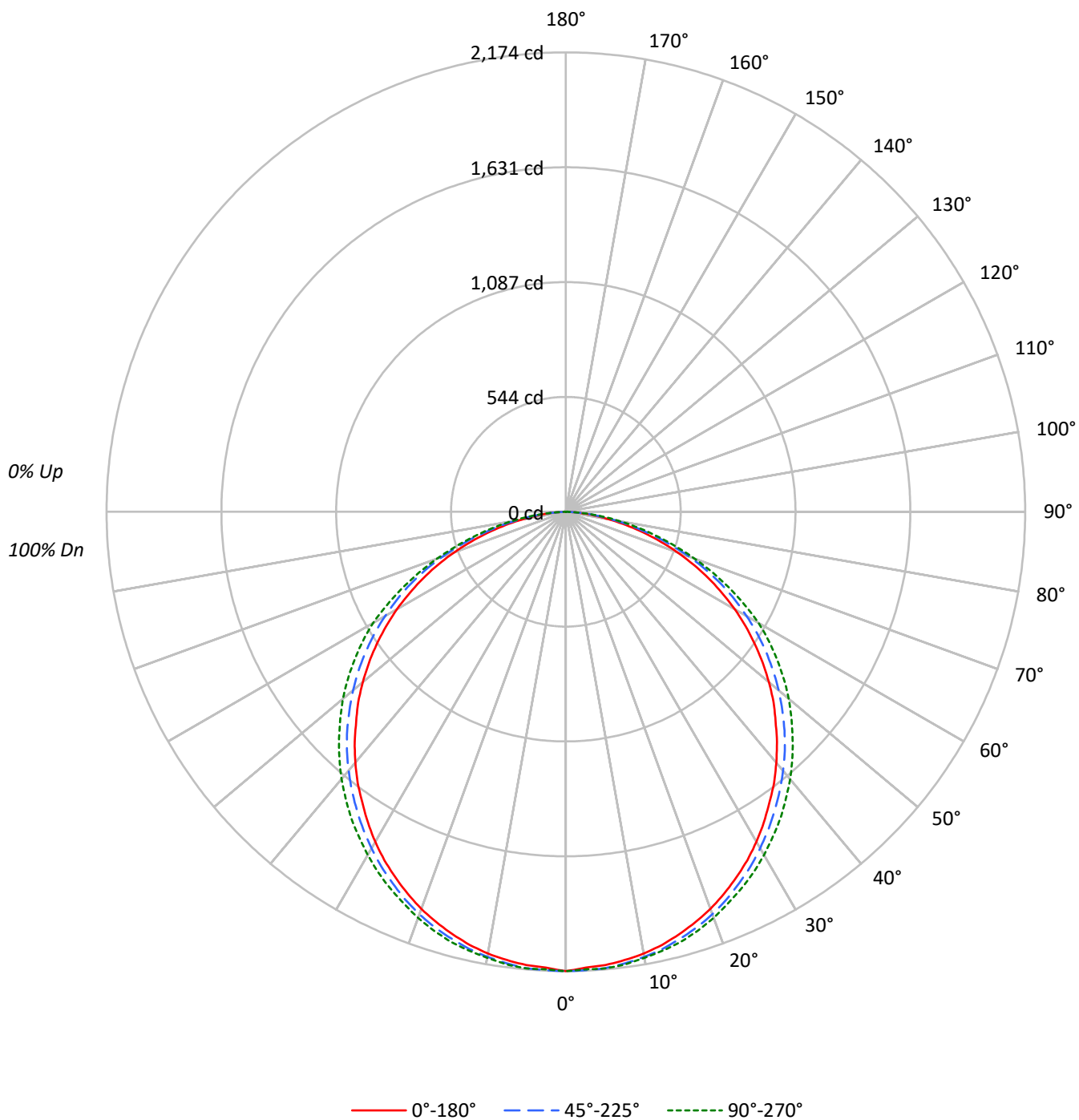
Lumens per Lamp: N/A
Luminaire Lumens: 6285.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7325	7325	7325
5°	7284	7331	7338
10°	7264	7318	7334
15°	7222	7297	7348
20°	7172	7268	7334
25°	7099	7212	7312
30°	7019	7156	7296
35°	6907	7093	7283
40°	6816	7036	7264
45°	6688	6974	7234
50°	6576	6891	7221
55°	6418	6793	7174
60°	6222	6658	7101
65°	5945	6476	6808
70°	5542	6115	6389
75°	4950	5516	5829
80°	4058	4649	5098
85°	2718	3398	3793

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7234 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.9	3.3
10°-20°	590.3	9.4
20°-30°	893.8	14.2
30°-40°	1079.3	17.2
40°-50°	1128.0	17.9
50°-60°	1033.6	16.4
60°-70°	797.9	12.7
70°-80°	448.8	7.1
80°-90°	107.4	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°	1690.0	26.9
0°-40°	2769.3	44.1
0°-60°	4930.9	78.5
0°-90°	6285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6285.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2174	2174	2174	2174	2174	
5°	2154	2169	2168	2169	2169	205
15°	2070	2087	2092	2100	2106	584
25°	1909	1926	1940	1950	1967	880
35°	1679	1700	1724	1748	1771	1052
45°	1403	1431	1464	1493	1518	1085
55°	1092	1121	1156	1192	1221	976
65°	746	778	812	845	854	737
75°	380	415	424	441	448	403
85°	70	80	88	96	98	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2174.0	2174.0	2174.0	2174.0	2174.0
2.5°	2159.2	2175.8	2172.1	2177.7	2167.5
5°	2153.6	2169.4	2167.5	2169.4	2169.4
7.5°	2139.8	2156.4	2155.5	2158.3	2160.1
10°	2123.1	2138.8	2138.8	2141.6	2143.5
12.5°	2100.0	2116.6	2118.5	2123.1	2126.8
15°	2070.4	2087.0	2091.7	2100.0	2106.5
17.5°	2037.1	2054.6	2062.0	2070.4	2078.7
20°	2000.1	2015.8	2026.9	2033.4	2045.4
22.5°	1956.6	1974.2	1986.2	1992.7	2005.6
25°	1909.4	1926.1	1939.9	1950.1	1966.8
27.5°	1859.5	1876.1	1892.8	1904.8	1924.2
30°	1803.9	1821.5	1839.1	1857.6	1875.2
32.5°	1743.8	1764.2	1783.6	1803.9	1823.4
35°	1679.1	1700.3	1724.4	1747.5	1770.6
37.5°	1618.9	1638.4	1663.3	1688.3	1711.4
40°	1549.5	1570.8	1599.5	1627.3	1651.3
42.5°	1479.2	1502.4	1533.8	1560.6	1586.5
45°	1403.4	1431.1	1463.5	1493.1	1518.1
47.5°	1333.1	1357.1	1389.5	1421.9	1447.8
50°	1254.4	1281.3	1314.6	1348.8	1377.5
52.5°	1174.9	1202.6	1236.9	1271.1	1300.7
55°	1092.5	1121.2	1156.4	1192.5	1221.1
57.5°	1008.4	1038.9	1075.0	1111.0	1139.7
60°	923.3	953.8	988.0	1027.8	1053.7
62.5°	834.4	868.7	901.0	938.1	953.8
65°	745.6	778.0	812.2	844.6	853.9
67.5°	655.0	688.3	718.8	740.1	752.1
70°	562.5	598.5	620.7	641.1	648.5
72.5°	470.9	507.0	519.9	539.3	546.7
75°	380.2	415.4	423.7	441.3	447.7
77.5°	292.3	324.7	327.5	347.8	353.4
80°	209.1	235.0	239.6	259.0	262.7
82.5°	134.1	152.6	159.1	175.8	181.3
85°	70.3	80.5	87.9	96.2	98.1
87.5°	23.1	28.7	24.1	25.0	23.1
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	18.63	20.28	19.00	20.60	20.91	19.17	20.82	19.54	21.14	21.45
	3H	20.41	21.90	20.78	22.23	22.59	21.03	22.52	21.40	22.85	23.21
	4H	21.03	22.44	21.43	22.79	23.16	21.70	23.10	22.09	23.45	23.83
	6H	21.44	22.75	21.85	23.11	23.50	22.17	23.48	22.58	23.84	24.23
	8H	21.55	22.79	21.97	23.18	23.58	22.32	23.57	22.74	23.95	24.35
	12H	21.59	22.79	22.02	23.17	23.60	22.40	23.60	22.83	23.98	24.41
4H	2H	19.36	20.76	19.75	21.11	21.48	19.78	21.18	20.18	21.53	21.91
	3H	21.35	22.53	21.76	22.93	23.33	21.85	23.03	22.26	23.43	23.83
	4H	22.11	23.18	22.54	23.59	24.02	22.65	23.71	23.08	24.13	24.56
	6H	22.64	23.57	23.09	24.01	24.46	23.25	24.18	23.70	24.62	25.08
	8H	22.77	23.65	23.23	24.09	24.55	23.44	24.31	23.90	24.75	25.22
	12H	22.85	23.64	23.33	24.11	24.58	23.56	24.35	24.04	24.82	25.29
8H	4H	22.44	23.32	22.90	23.76	24.22	22.92	23.80	23.38	24.24	24.70
	6H	23.08	23.81	23.58	24.30	24.77	23.63	24.36	24.13	24.85	25.32
	8H	23.28	23.94	23.79	24.44	24.93	23.89	24.54	24.40	25.05	25.53
	12H	23.41	23.99	23.92	24.48	25.04	24.07	24.65	24.58	25.14	25.70
12H	4H	22.48	23.27	22.96	23.74	24.21	22.95	23.73	23.42	24.21	24.67
	6H	23.14	23.79	23.65	24.30	24.78	23.67	24.32	24.18	24.83	25.31
	8H	23.39	23.97	23.90	24.46	25.02	23.98	24.55	24.48	25.04	25.60