

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: P1585876

Luminaire Tested: 14CZSP-SB-70VHE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585876
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-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 7200 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

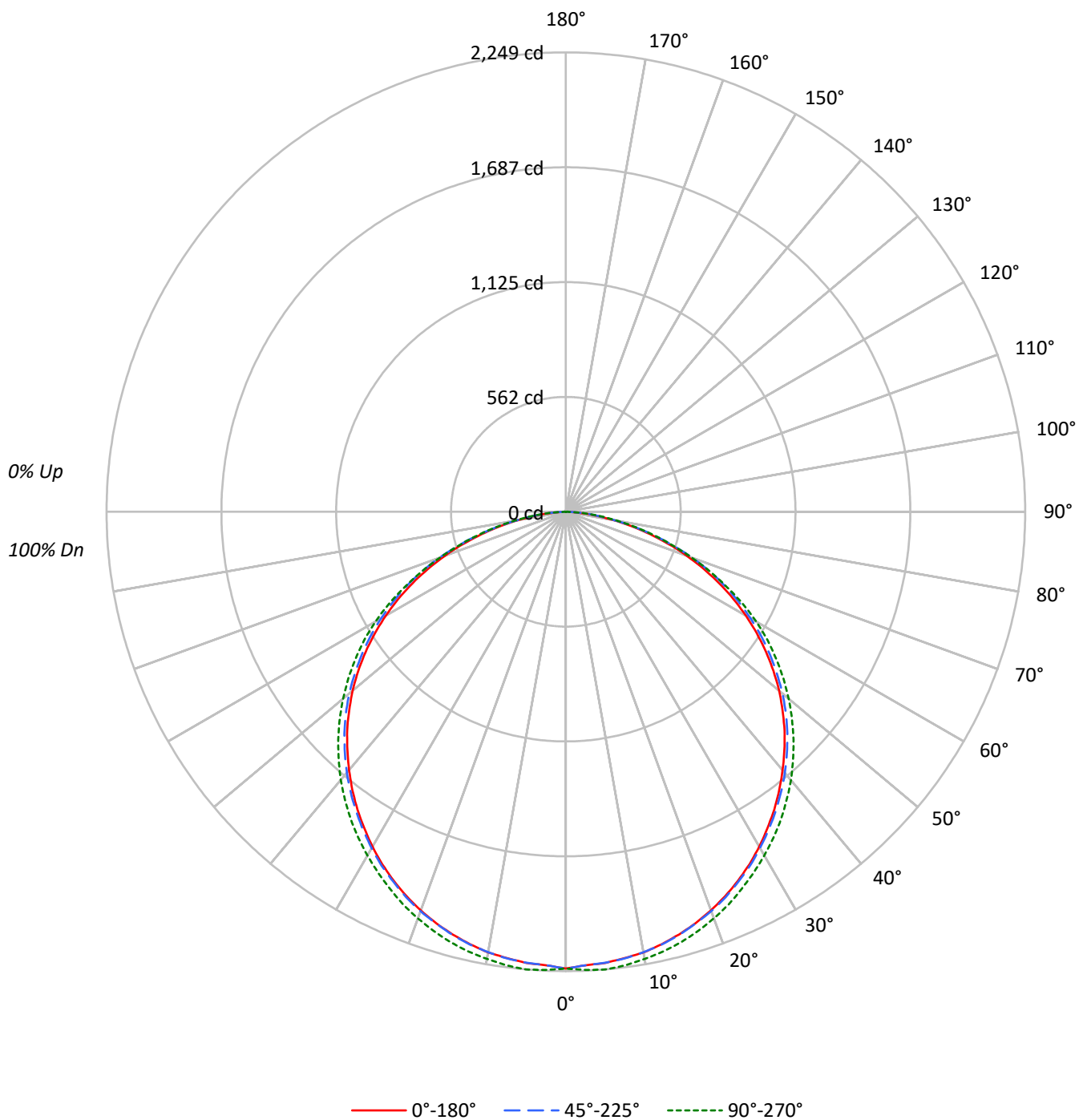
Lumens per Lamp: N/A
Luminaire Lumens: 6599.0 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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	99	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7535	7535	7535
5°	7499	7495	7608
10°	7496	7492	7606
15°	7473	7480	7610
20°	7450	7464	7598
25°	7412	7431	7574
30°	7368	7399	7560
35°	7320	7365	7556
40°	7263	7338	7543
45°	7218	7309	7512
50°	7146	7257	7463
55°	7034	7165	7390
60°	6864	7041	7259
65°	6607	6856	6929
70°	6212	6500	6461
75°	5577	5814	5855
80°	4609	4843	5098
85°	3085	3596	3789

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7512 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.9	3.2
10°-20°	609.2	9.2
20°-30°	927.7	14.1
30°-40°	1129.0	17.1
40°-50°	1190.2	18.0
50°-60°	1096.3	16.6
60°-70°	846.7	12.8
70°-80°	473.8	7.2
80°-90°	114.2	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°	1748.8	26.5
0°-40°	2877.8	43.6
0°-60°	5164.3	78.3
0°-90°	6599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6599.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2236	2236	2236	2236	2236	
5°	2217	2248	2216	2219	2249	211
15°	2142	2172	2144	2156	2182	605
25°	1994	2022	1999	2012	2037	919
35°	1779	1806	1790	1813	1837	1113
45°	1515	1536	1534	1557	1576	1167
55°	1197	1218	1220	1245	1258	1069
65°	829	853	860	868	869	819
75°	428	455	447	446	450	454
85°	80	88	93	104	98	102
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2236.2	2236.2	2236.2	2236.2	2236.2
2.5°	2222.0	2254.3	2222.0	2227.1	2245.3
5°	2217.0	2248.3	2215.9	2219.0	2249.3
7.5°	2203.8	2236.2	2205.8	2209.9	2239.2
10°	2190.7	2220.0	2189.7	2194.7	2223.0
12.5°	2168.5	2198.8	2170.5	2176.5	2204.8
15°	2142.2	2171.5	2144.2	2156.3	2181.6
17.5°	2111.9	2140.2	2113.9	2128.0	2152.3
20°	2077.5	2104.8	2081.6	2091.7	2118.9
22.5°	2037.1	2065.4	2043.2	2052.3	2081.6
25°	1993.6	2021.9	1998.7	2011.8	2037.1
27.5°	1946.2	1973.4	1953.2	1969.4	1991.6
30°	1893.6	1919.9	1901.7	1920.9	1943.1
32.5°	1837.0	1865.3	1847.1	1869.4	1891.6
35°	1779.4	1805.7	1790.5	1812.8	1837.0
37.5°	1716.8	1742.0	1730.9	1754.2	1776.4
40°	1651.1	1679.4	1668.3	1692.5	1714.8
42.5°	1583.4	1610.7	1601.6	1626.8	1646.0
45°	1514.7	1535.9	1533.9	1557.1	1576.3
47.5°	1438.9	1465.2	1461.1	1484.4	1501.6
50°	1363.1	1384.3	1384.3	1406.6	1423.7
52.5°	1281.3	1302.5	1302.5	1328.8	1342.9
55°	1197.4	1217.6	1219.6	1244.9	1258.0
57.5°	1108.5	1129.7	1133.7	1159.0	1171.1
60°	1018.5	1038.8	1044.8	1070.1	1077.2
62.5°	924.6	948.8	951.9	972.1	976.1
65°	828.6	852.8	859.9	868.0	869.0
67.5°	730.6	755.8	762.9	762.9	762.9
70°	630.5	653.8	659.8	655.8	655.8
72.5°	529.5	554.7	551.7	547.7	549.7
75°	428.4	454.7	446.6	445.6	449.7
77.5°	331.4	356.7	343.6	351.6	352.7
80°	237.5	256.7	249.6	261.7	262.7
82.5°	152.6	164.7	166.7	176.8	173.8
85°	79.8	87.9	93.0	104.1	98.0
87.5°	25.3	33.3	30.3	35.4	27.3
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	19.05	20.71	19.42	21.02	21.34	19.27	20.92	19.63	21.24	21.55
	3H	20.87	22.37	21.25	22.70	23.06	21.07	22.57	21.44	22.89	23.25
	4H	21.52	22.93	21.92	23.28	23.65	21.71	23.12	22.10	23.47	23.84
	6H	21.95	23.26	22.36	23.62	24.01	22.16	23.47	22.57	23.83	24.22
	8H	22.06	23.31	22.48	23.70	24.09	22.29	23.54	22.71	23.93	24.33
	12H	22.11	23.31	22.54	23.69	24.12	22.37	23.57	22.80	23.95	24.38
4H	2H	19.73	21.14	20.13	21.49	21.87	19.90	21.31	20.30	21.66	22.03
	3H	21.77	22.96	22.18	23.35	23.75	21.91	23.10	22.32	23.50	23.90
	4H	22.55	23.62	22.98	24.04	24.47	22.67	23.74	23.10	24.16	24.59
	6H	23.10	24.04	23.55	24.48	24.93	23.25	24.18	23.70	24.62	25.08
	8H	23.25	24.12	23.71	24.57	25.03	23.42	24.30	23.88	24.74	25.20
	12H	23.33	24.12	23.81	24.59	25.06	23.53	24.32	24.01	24.80	25.27
8H	4H	22.86	23.74	23.32	24.18	24.64	22.97	23.84	23.43	24.29	24.75
	6H	23.52	24.25	24.01	24.73	25.21	23.65	24.38	24.14	24.86	25.34
	8H	23.72	24.38	24.23	24.88	25.37	23.89	24.54	24.40	25.05	25.53
	12H	23.86	24.44	24.36	24.93	25.49	24.06	24.64	24.57	25.13	25.69
12H	4H	22.89	23.68	23.37	24.15	24.62	22.99	23.78	23.47	24.26	24.73
	6H	23.56	24.22	24.07	24.72	25.21	23.69	24.35	24.20	24.85	25.34
	8H	23.82	24.40	24.33	24.89	25.45	23.98	24.56	24.49	25.05	25.61