

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: P1585880

Luminaire Tested: 14CZSP-SB-70VHE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585880
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-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 7200 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

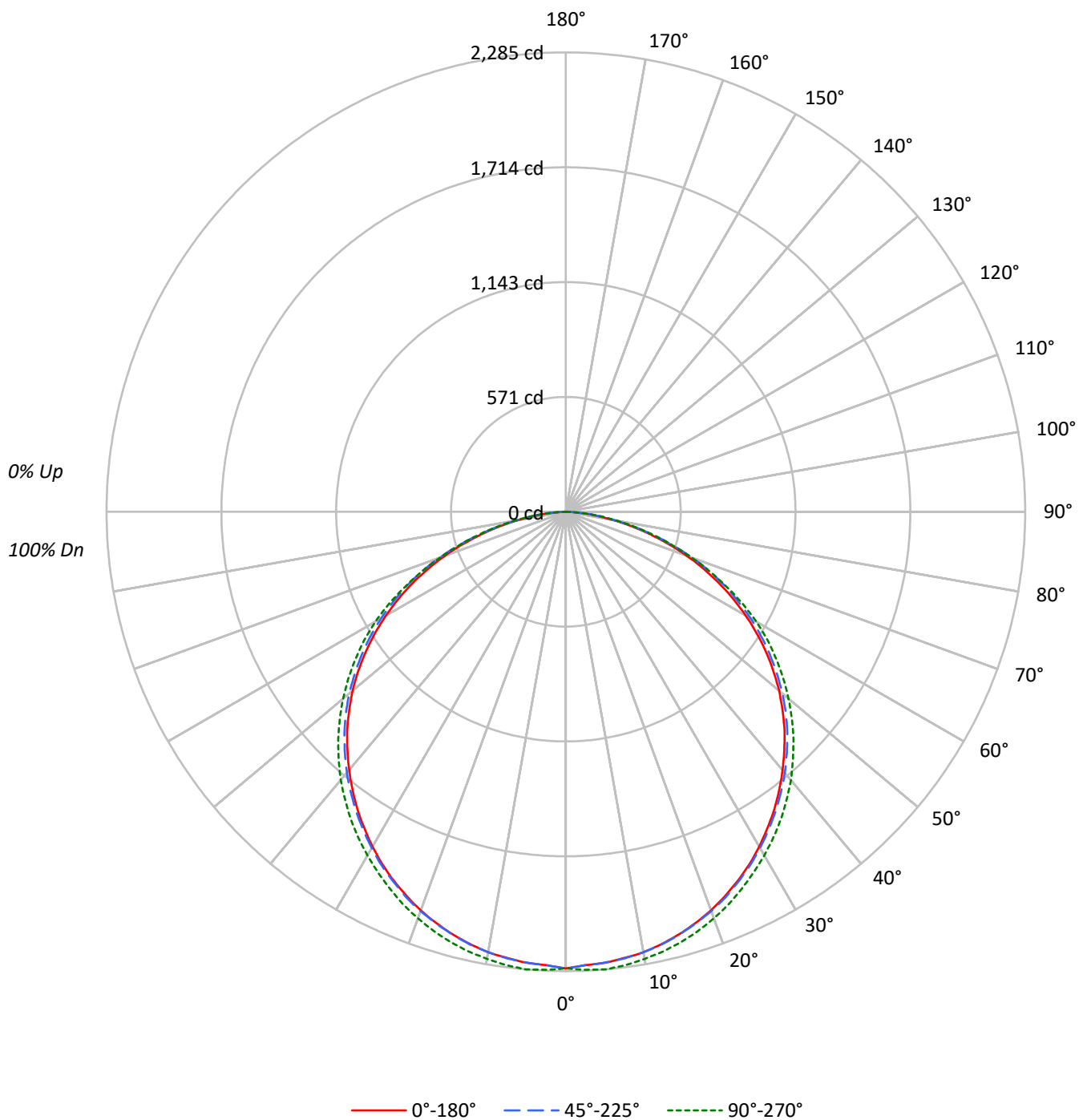
Lumens per Lamp: N/A
Luminaire Lumens: 6703.0 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	7654	7654	7654
5°	7617	7614	7728
10°	7614	7610	7726
15°	7591	7598	7730
20°	7567	7582	7718
25°	7529	7548	7693
30°	7484	7516	7679
35°	7435	7482	7676
40°	7377	7454	7662
45°	7332	7425	7630
50°	7258	7371	7581
55°	7145	7278	7507
60°	6972	7152	7373
65°	6710	6965	7038
70°	6310	6603	6562
75°	5666	5907	5946
80°	4680	4919	5179
85°	3135	3650	3851

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7630 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.3	3.2
10°-20°	618.8	9.2
20°-30°	942.3	14.1
30°-40°	1146.8	17.1
40°-50°	1209.0	18.0
50°-60°	1113.5	16.6
60°-70°	860.0	12.8
70°-80°	481.3	7.2
80°-90°	116.0	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°	1776.4	26.5
0°-40°	2923.2	43.6
0°-60°	5245.8	78.3
0°-90°	6703.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6703.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2271	2271	2271	2271	2271	
5°	2252	2284	2251	2254	2285	214
15°	2176	2206	2178	2190	2216	614
25°	2025	2054	2030	2044	2069	933
35°	1808	1834	1819	1841	1866	1131
45°	1539	1560	1558	1582	1601	1186
55°	1216	1237	1239	1264	1278	1086
65°	842	866	874	882	883	831
75°	435	462	454	453	457	461
85°	81	89	94	106	100	104
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2271.4	2271.4	2271.4	2271.4	2271.4
2.5°	2257.0	2289.9	2257.0	2262.2	2280.6
5°	2251.9	2283.7	2250.9	2254.0	2284.7
7.5°	2238.6	2271.4	2240.6	2244.7	2274.5
10°	2225.2	2255.0	2224.2	2229.3	2258.1
12.5°	2202.6	2233.4	2204.7	2210.8	2239.6
15°	2175.9	2205.7	2178.0	2190.3	2216.0
17.5°	2145.2	2173.9	2147.2	2161.6	2186.2
20°	2110.3	2138.0	2114.4	2124.6	2152.3
22.5°	2069.2	2097.9	2075.4	2084.6	2114.4
25°	2025.1	2053.8	2030.2	2043.5	2069.2
27.5°	1976.8	2004.5	1984.0	2000.4	2023.0
30°	1923.5	1950.1	1931.7	1951.2	1973.7
32.5°	1866.0	1894.7	1876.2	1898.8	1921.4
35°	1807.5	1834.2	1818.8	1841.3	1866.0
37.5°	1743.8	1769.5	1758.2	1781.8	1804.4
40°	1677.1	1705.9	1694.6	1719.2	1741.8
42.5°	1608.4	1636.1	1626.8	1652.5	1672.0
45°	1538.6	1560.1	1558.1	1581.7	1601.2
47.5°	1461.6	1488.3	1484.2	1507.8	1525.2
50°	1384.6	1406.2	1406.2	1428.7	1446.2
52.5°	1301.5	1323.0	1323.0	1349.7	1364.1
55°	1216.3	1236.8	1238.9	1264.5	1277.9
57.5°	1125.9	1147.5	1151.6	1177.3	1189.6
60°	1034.6	1055.1	1061.3	1086.9	1094.1
62.5°	939.1	963.8	966.9	987.4	991.5
65°	841.6	866.3	873.5	881.7	882.7
67.5°	742.1	767.7	774.9	774.9	774.9
70°	640.5	664.1	670.2	666.1	666.1
72.5°	537.8	563.5	560.4	556.3	558.4
75°	435.2	461.9	453.7	452.6	456.7
77.5°	336.7	362.3	349.0	357.2	358.2
80°	241.2	260.7	253.5	265.8	266.9
82.5°	155.0	167.3	169.4	179.6	176.5
85°	81.1	89.3	94.4	105.7	99.6
87.5°	25.7	33.9	30.8	35.9	27.7
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	19.11	20.76	19.47	21.08	21.39	19.32	20.98	19.69	21.29	21.61
	3H	20.93	22.43	21.30	22.75	23.11	21.12	22.62	21.50	22.95	23.31
	4H	21.57	22.99	21.97	23.33	23.71	21.76	23.17	22.16	23.52	23.89
	6H	22.00	23.31	22.41	23.67	24.07	22.21	23.52	22.62	23.89	24.28
	8H	22.11	23.36	22.53	23.75	24.15	22.34	23.60	22.77	23.98	24.38
	12H	22.16	23.36	22.59	23.74	24.17	22.42	23.62	22.85	24.00	24.43
4H	2H	19.78	21.20	20.18	21.54	21.92	19.95	21.37	20.35	21.71	22.09
	3H	21.83	23.01	22.23	23.41	23.81	21.97	23.15	22.38	23.55	23.95
	4H	22.61	23.68	23.04	24.09	24.53	22.73	23.80	23.16	24.21	24.65
	6H	23.16	24.09	23.61	24.53	24.99	23.30	24.24	23.75	24.68	25.13
	8H	23.30	24.18	23.76	24.62	25.09	23.48	24.35	23.93	24.79	25.26
	12H	23.39	24.17	23.86	24.65	25.12	23.59	24.38	24.07	24.85	25.32
8H	4H	22.91	23.79	23.37	24.23	24.70	23.02	23.90	23.48	24.34	24.80
	6H	23.57	24.30	24.07	24.79	25.26	23.70	24.43	24.20	24.92	25.39
	8H	23.78	24.43	24.29	24.94	25.42	23.94	24.60	24.45	25.10	25.59
	12H	23.91	24.49	24.42	24.98	25.54	24.12	24.70	24.62	25.19	25.75
12H	4H	22.94	23.73	23.42	24.21	24.68	23.05	23.84	23.53	24.31	24.78
	6H	23.62	24.27	24.13	24.78	25.26	23.74	24.40	24.25	24.90	25.39
	8H	23.87	24.45	24.38	24.94	25.50	24.03	24.61	24.54	25.10	25.66