

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: P1585881

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585881
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-L850
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 7200 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

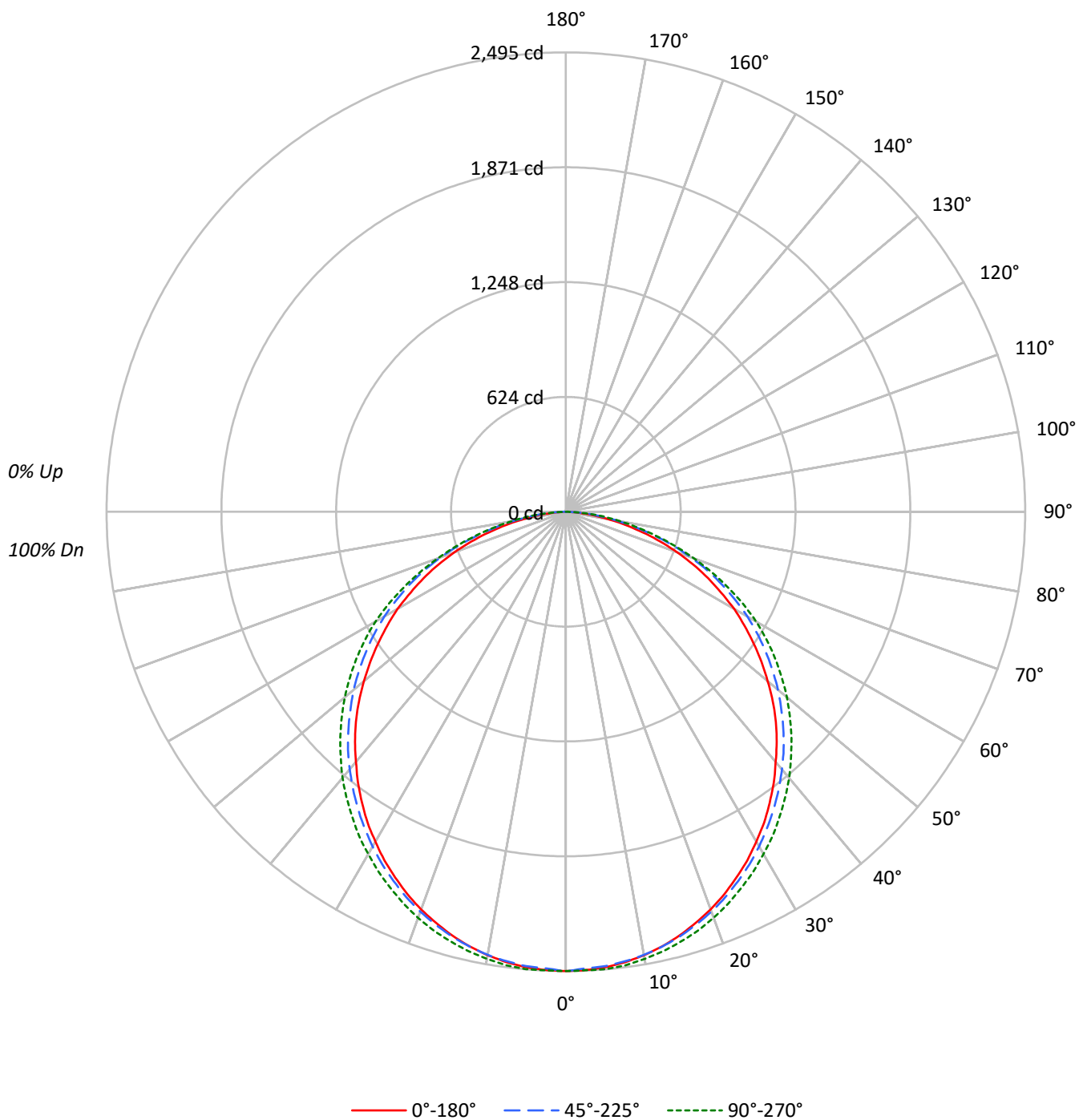
Lumens per Lamp: N/A
Luminaire Lumens: 7207.0 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	8406	8406	8406
5°	8399	8378	8434
10°	8369	8362	8436
15°	8315	8333	8431
20°	8242	8290	8417
25°	8152	8229	8383
30°	8050	8167	8353
35°	7939	8101	8323
40°	7799	8032	8302
45°	7688	7960	8257
50°	7505	7886	8218
55°	7312	7782	8154
60°	7115	7668	8046
65°	6795	7466	7739
70°	6341	7129	7302
75°	5649	6460	6650
80°	4612	5600	5882
85°	3050	4454	4775

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8257 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.3	3.3
10°-20°	676.8	9.4
20°-30°	1024.7	14.2
30°-40°	1236.9	17.2
40°-50°	1291.7	17.9
50°-60°	1181.6	16.4
60°-70°	913.5	12.7
70°-80°	517.2	7.2
80°-90°	128.5	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°	1937.8	26.9
0°-40°	3174.6	44.0
0°-60°	5647.9	78.4
0°-90°	7207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7207.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2495	2495	2495	2495	2495	
5°	2483	2501	2477	2479	2494	236
15°	2384	2404	2389	2400	2417	672
25°	2192	2221	2213	2234	2255	1010
35°	1930	1957	1969	2003	2023	1207
45°	1613	1644	1670	1713	1733	1242
55°	1245	1282	1325	1366	1388	1113
65°	852	888	936	964	971	841
75°	434	471	496	509	511	460
85°	79	91	115	120	124	102
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2494.6	2494.6	2494.6	2494.6	2494.6
2.5°	2491.5	2509.2	2482.2	2487.4	2492.6
5°	2483.2	2500.9	2477.0	2479.1	2493.6
7.5°	2467.7	2487.4	2462.5	2466.6	2484.3
10°	2445.9	2465.6	2443.8	2447.9	2465.6
12.5°	2417.8	2437.6	2418.9	2425.1	2444.8
15°	2383.6	2404.3	2388.8	2400.2	2416.8
17.5°	2342.0	2368.0	2351.4	2369.0	2385.6
20°	2298.4	2324.4	2311.9	2327.5	2347.2
22.5°	2248.6	2274.6	2265.2	2281.8	2303.6
25°	2192.5	2220.6	2213.3	2234.1	2254.8
27.5°	2134.4	2161.4	2159.3	2182.2	2204.0
30°	2069.0	2098.1	2099.1	2126.1	2146.9
32.5°	2003.6	2029.6	2035.8	2065.9	2089.8
35°	1929.9	1956.9	1969.3	2002.6	2023.3
37.5°	1855.2	1885.3	1898.8	1935.1	1956.9
40°	1773.1	1807.4	1826.1	1864.5	1887.3
42.5°	1695.3	1726.4	1751.3	1789.8	1810.5
45°	1613.3	1644.4	1670.4	1712.9	1732.7
47.5°	1525.0	1559.3	1587.3	1628.8	1650.6
50°	1431.6	1469.0	1504.3	1544.8	1567.6
52.5°	1339.2	1375.5	1416.0	1455.5	1478.3
55°	1244.7	1282.1	1324.7	1366.2	1388.0
57.5°	1149.2	1186.6	1233.3	1270.7	1293.5
60°	1055.8	1090.0	1137.8	1175.2	1193.9
62.5°	949.9	989.3	1038.1	1075.5	1085.9
65°	852.3	887.6	936.4	964.4	970.7
67.5°	748.5	783.8	832.6	848.2	857.5
70°	643.6	681.0	723.6	734.0	741.2
72.5°	537.8	576.2	609.4	619.8	626.0
75°	433.9	471.3	496.2	508.7	510.8
77.5°	333.2	367.5	390.3	404.9	404.9
80°	237.7	263.7	288.6	304.2	303.1
82.5°	151.6	171.3	197.2	208.7	215.9
85°	78.9	91.4	115.2	120.4	123.5
87.5°	24.9	32.2	41.5	34.3	33.2
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	19.08	20.73	19.44	21.04	21.36	19.62	21.27	19.98	21.58	21.90
	3H	20.85	22.34	21.23	22.67	23.03	21.48	22.97	21.85	23.30	23.66
	4H	21.47	22.88	21.87	23.23	23.60	22.15	23.56	22.55	23.91	24.28
	6H	21.88	23.18	22.29	23.55	23.94	22.64	23.94	23.05	24.30	24.70
	8H	21.98	23.23	22.40	23.62	24.01	22.79	24.04	23.22	24.43	24.83
	12H	22.03	23.22	22.46	23.60	24.03	22.89	24.09	23.32	24.47	24.89
4H	2H	19.82	21.22	20.21	21.57	21.95	20.24	21.65	20.64	21.99	22.37
	3H	21.81	22.99	22.22	23.39	23.79	22.32	23.50	22.72	23.89	24.29
	4H	22.56	23.63	22.99	24.04	24.47	23.12	24.19	23.55	24.60	25.03
	6H	23.08	24.01	23.53	24.45	24.91	23.73	24.67	24.18	25.11	25.56
	8H	23.21	24.09	23.67	24.53	24.99	23.93	24.81	24.39	25.25	25.72
	12H	23.29	24.07	23.77	24.55	25.02	24.07	24.86	24.55	25.34	25.80
8H	4H	22.91	23.79	23.37	24.23	24.69	23.41	24.28	23.87	24.72	25.19
	6H	23.54	24.27	24.04	24.76	25.23	24.14	24.87	24.63	25.35	25.83
	8H	23.74	24.39	24.25	24.90	25.38	24.41	25.06	24.92	25.57	26.06
	12H	23.86	24.44	24.37	24.93	25.49	24.62	25.20	25.12	25.69	26.24
12H	4H	22.95	23.74	23.43	24.21	24.68	23.43	24.22	23.91	24.69	25.16
	6H	23.61	24.26	24.12	24.77	25.25	24.18	24.83	24.69	25.34	25.83
	8H	23.86	24.43	24.36	24.92	25.48	24.51	25.09	25.01	25.58	26.13