

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: P1585877

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585877
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-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 7200 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

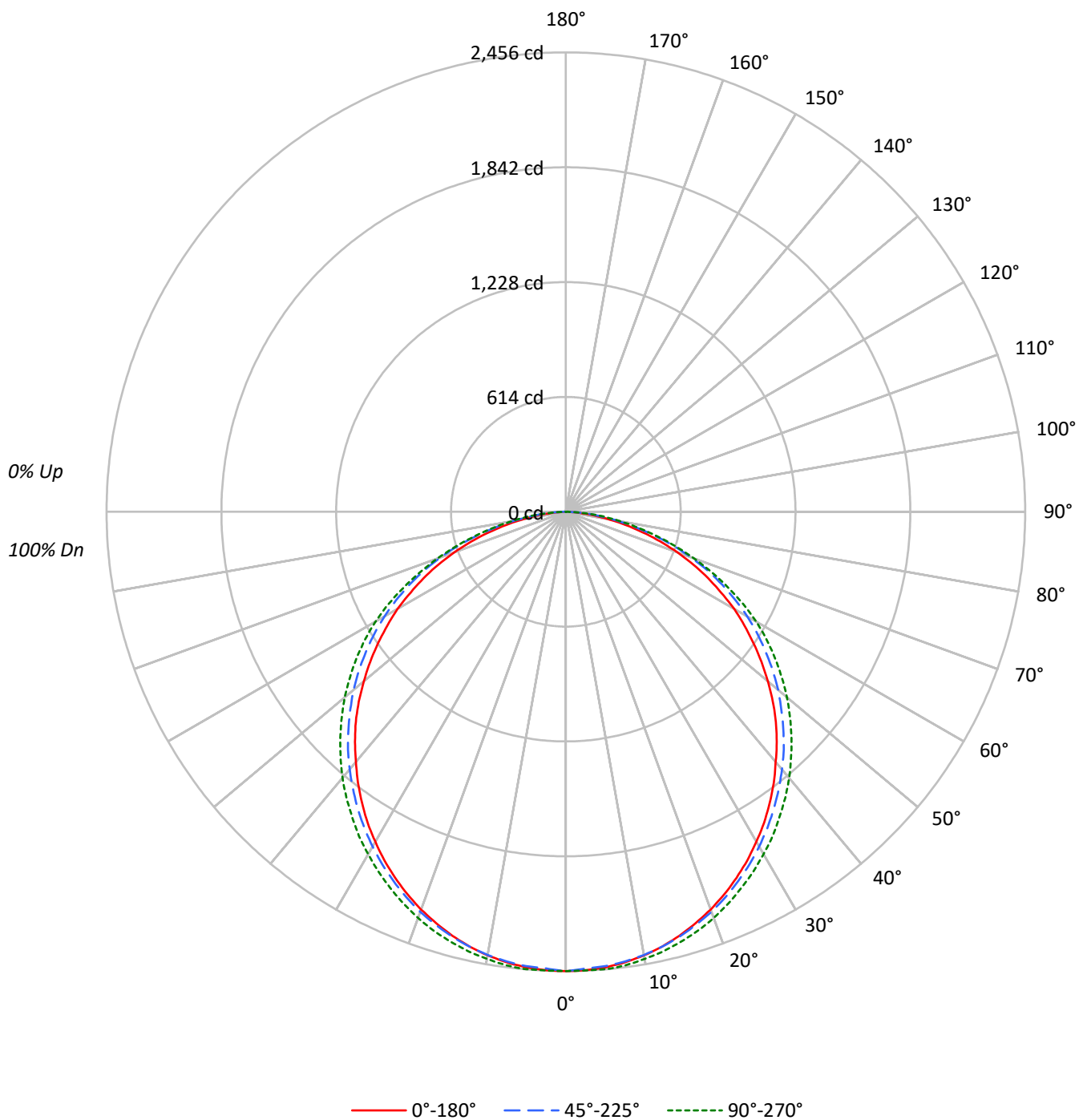
Lumens per Lamp: N/A
Luminaire Lumens: 7096.0 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1585877

CATALOG NUMBER: 14CZSP-SB-70VHE-L840

Luminous Intensity Polar Plot



TEST NUMBER: P1585877

CATALOG NUMBER: 14CZSP-SB-70VHE-L840

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	79	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	40	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	58	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°	8276	8276	8276
5°	8270	8249	8305
10°	8240	8233	8306
15°	8187	8205	8301
20°	8115	8162	8287
25°	8026	8102	8254
30°	7926	8042	8224
35°	7816	7976	8195
40°	7679	7909	8174
45°	7569	7837	8130
50°	7389	7764	8091
55°	7200	7662	8028
60°	7005	7550	7922
65°	6691	7351	7620
70°	6243	7019	7190
75°	5563	6361	6547
80°	4543	5515	5792
85°	3004	4388	4701

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8130 cd/sqm

TEST NUMBER: P1585877

CATALOG NUMBER: 14CZSP-SB-70VHE-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.6	3.3
10°-20°	666.4	9.4
20°-30°	1008.9	14.2
30°-40°	1217.8	17.2
40°-50°	1271.8	17.9
50°-60°	1163.4	16.4
60°-70°	899.4	12.7
70°-80°	509.2	7.2
80°-90°	126.5	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°	1907.9	26.9
0°-40°	3125.7	44.0
0°-60°	5560.9	78.4
0°-90°	7096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2456	2456	2456	2456	2456	
5°	2445	2462	2439	2441	2455	232
15°	2347	2367	2352	2363	2380	662
25°	2159	2186	2179	2200	2220	995
35°	1900	1927	1939	1972	1992	1189
45°	1588	1619	1645	1686	1706	1223
55°	1226	1262	1304	1345	1367	1096
65°	839	874	922	950	956	828
75°	427	464	489	501	503	453
85°	78	90	114	119	122	100
90°	0	0	0	0	0	

TEST NUMBER: P1585877

CATALOG NUMBER: 14CZSP-SB-70VHE-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2456.2	2456.2	2456.2	2456.2	2456.2
2.5°	2453.2	2470.5	2444.0	2449.1	2454.2
5°	2445.0	2462.4	2438.8	2440.9	2455.2
7.5°	2429.7	2449.1	2424.5	2428.6	2446.0
10°	2408.2	2427.6	2406.1	2410.2	2427.6
12.5°	2380.6	2400.0	2381.6	2387.7	2407.2
15°	2346.9	2367.3	2352.0	2363.2	2379.6
17.5°	2306.0	2331.5	2315.2	2332.5	2348.9
20°	2263.0	2288.6	2276.3	2291.7	2311.1
22.5°	2214.0	2239.5	2230.3	2246.7	2268.2
25°	2158.8	2186.4	2179.2	2199.7	2220.1
27.5°	2101.5	2128.1	2126.1	2148.6	2170.0
30°	2037.1	2065.8	2066.8	2093.4	2113.8
32.5°	1972.7	1998.3	2004.4	2034.1	2057.6
35°	1900.2	1926.8	1939.0	1971.7	1992.2
37.5°	1826.6	1856.2	1869.5	1905.3	1926.8
40°	1745.8	1779.6	1798.0	1835.8	1858.3
42.5°	1669.2	1699.8	1724.4	1762.2	1782.6
45°	1588.4	1619.1	1644.6	1686.5	1706.0
47.5°	1501.5	1535.3	1562.9	1603.8	1625.2
50°	1409.5	1446.3	1481.1	1521.0	1543.4
52.5°	1318.6	1354.3	1394.2	1433.1	1455.5
55°	1225.6	1262.4	1304.3	1345.1	1366.6
57.5°	1131.5	1168.3	1214.3	1251.1	1273.6
60°	1039.5	1073.3	1120.3	1157.1	1175.5
62.5°	935.3	974.1	1022.1	1058.9	1069.2
65°	839.2	873.9	922.0	949.6	955.7
67.5°	737.0	771.7	819.8	835.1	844.3
70°	633.7	670.5	712.4	722.7	729.8
72.5°	529.5	567.3	600.0	610.2	616.4
75°	427.3	464.1	488.6	500.9	502.9
77.5°	328.1	361.8	384.3	398.6	398.6
80°	234.1	259.6	284.2	299.5	298.5
82.5°	149.2	168.7	194.2	205.5	212.6
85°	77.7	89.9	113.5	118.6	121.6
87.5°	24.5	31.7	40.9	33.7	32.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1585877

CATALOG NUMBER: 14CZSP-SB-70VHE-L840

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	19.02	20.67	19.39	20.99	21.30	19.56	21.21	19.93	21.53	21.84
	3H	20.80	22.29	21.17	22.62	22.98	21.42	22.92	21.80	23.24	23.60
	4H	21.42	22.83	21.82	23.17	23.55	22.10	23.50	22.49	23.85	24.23
	6H	21.82	23.13	22.23	23.49	23.88	22.58	23.89	22.99	24.25	24.64
	8H	21.93	23.17	22.35	23.56	23.96	22.74	23.99	23.16	24.37	24.77
	12H	21.97	23.17	22.40	23.55	23.98	22.84	24.03	23.26	24.41	24.84
4H	2H	19.76	21.17	20.16	21.52	21.89	20.18	21.59	20.58	21.94	22.31
	3H	21.75	22.94	22.16	23.33	23.73	22.26	23.44	22.67	23.84	24.24
	4H	22.50	23.57	22.93	23.99	24.42	23.06	24.13	23.49	24.55	24.98
	6H	23.02	23.96	23.48	24.40	24.85	23.68	24.61	24.13	25.05	25.51
	8H	23.16	24.03	23.62	24.47	24.94	23.88	24.76	24.34	25.20	25.66
	12H	23.23	24.02	23.71	24.50	24.96	24.02	24.81	24.50	25.28	25.75
8H	4H	22.86	23.73	23.32	24.17	24.64	23.35	24.23	23.81	24.67	25.13
	6H	23.49	24.22	23.98	24.71	25.18	24.09	24.81	24.58	25.30	25.77
	8H	23.69	24.34	24.19	24.84	25.33	24.36	25.01	24.87	25.52	26.00
	12H	23.81	24.39	24.32	24.88	25.44	24.56	25.14	25.07	25.63	26.19
12H	4H	22.90	23.69	23.38	24.16	24.63	23.38	24.16	23.86	24.64	25.11
	6H	23.56	24.21	24.06	24.71	25.20	24.13	24.78	24.64	25.29	25.77
	8H	23.80	24.38	24.31	24.87	25.43	24.45	25.03	24.96	25.52	26.08