

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: P1585889

Luminaire Tested: 14CZSP-SB-70VHE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585889
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-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 7200 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

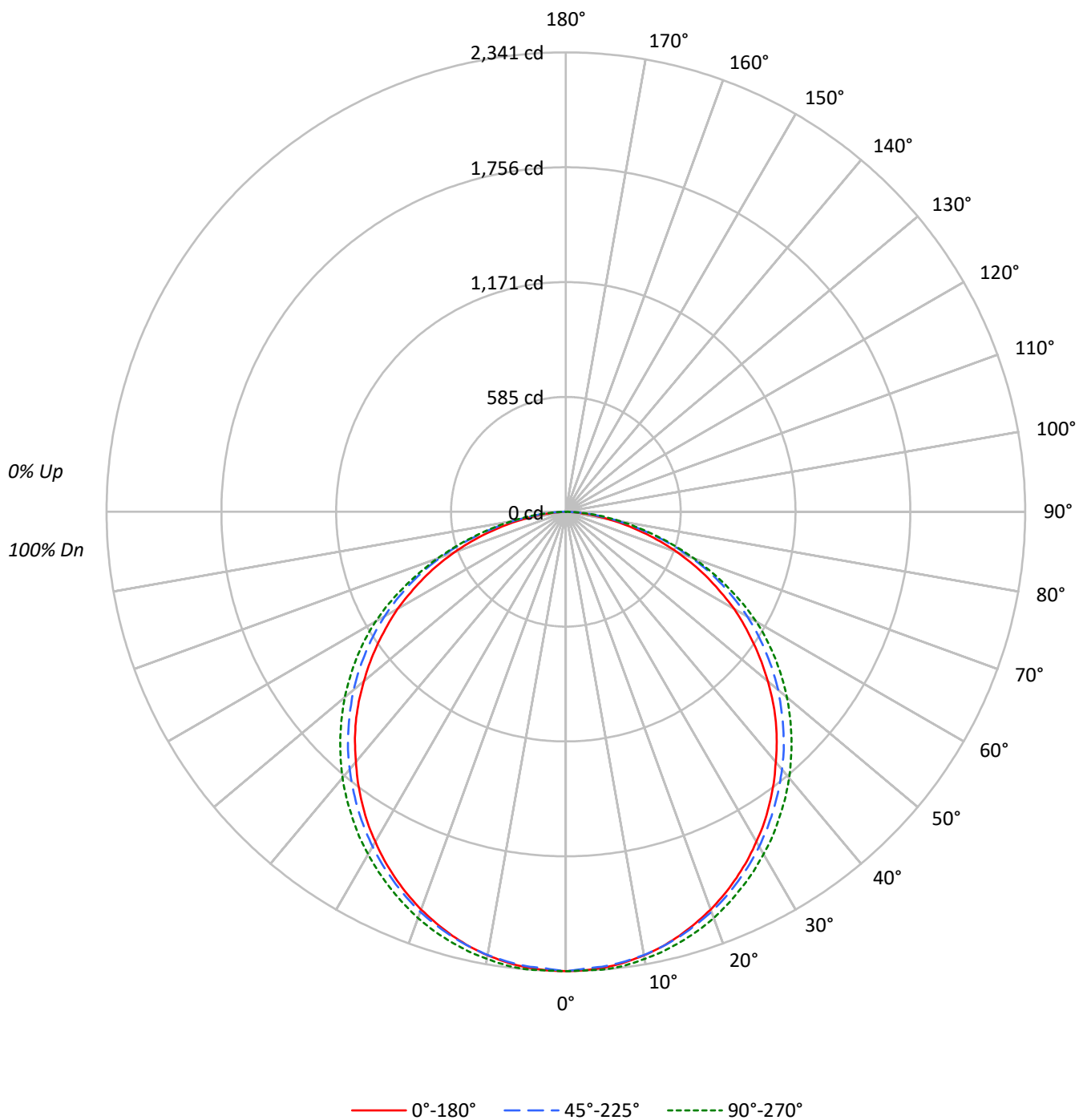
Lumens per Lamp: N/A
Luminaire Lumens: 6764.0 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	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°	7889	7889	7889
5°	7883	7863	7916
10°	7854	7848	7917
15°	7804	7821	7912
20°	7735	7781	7900
25°	7651	7723	7868
30°	7555	7665	7840
35°	7451	7603	7812
40°	7320	7538	7791
45°	7215	7471	7749
50°	7043	7401	7712
55°	6863	7303	7653
60°	6678	7197	7551
65°	6378	7007	7263
70°	5952	6690	6854
75°	5303	6063	6241
80°	4329	5257	5521
85°	2861	4183	4481

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7749 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.8	3.3
10°-20°	635.2	9.4
20°-30°	961.7	14.2
30°-40°	1160.8	17.2
40°-50°	1212.3	17.9
50°-60°	1109.0	16.4
60°-70°	857.3	12.7
70°-80°	485.4	7.2
80°-90°	120.6	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°	1818.6	26.9
0°-40°	2979.5	44.0
0°-60°	5300.7	78.4
0°-90°	6764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2341	2341	2341	2341	2341	
5°	2331	2347	2325	2327	2340	221
15°	2237	2256	2242	2253	2268	631
25°	2058	2084	2077	2097	2116	948
35°	1811	1837	1848	1880	1899	1133
45°	1514	1543	1568	1608	1626	1166
55°	1168	1203	1243	1282	1303	1045
65°	800	833	879	905	911	790
75°	407	442	466	477	479	432
85°	74	86	108	113	116	96
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2341.3	2341.3	2341.3	2341.3	2341.3
2.5°	2338.4	2354.9	2329.6	2334.5	2339.4
5°	2330.6	2347.2	2324.7	2326.7	2340.3
7.5°	2316.0	2334.5	2311.1	2315.0	2331.6
10°	2295.5	2314.0	2293.6	2297.5	2314.0
12.5°	2269.2	2287.7	2270.2	2276.0	2294.5
15°	2237.1	2256.5	2241.9	2252.6	2268.2
17.5°	2198.1	2222.4	2206.8	2223.4	2239.0
20°	2157.2	2181.5	2169.8	2184.4	2203.0
22.5°	2110.4	2134.7	2126.0	2141.6	2162.0
25°	2057.8	2084.1	2077.3	2096.8	2116.2
27.5°	2003.2	2028.5	2026.6	2048.0	2068.5
30°	1941.8	1969.1	1970.1	1995.4	2014.9
32.5°	1880.5	1904.8	1910.7	1938.9	1961.3
35°	1811.3	1836.6	1848.3	1879.5	1899.0
37.5°	1741.1	1769.4	1782.0	1816.1	1836.6
40°	1664.1	1696.3	1713.8	1749.9	1771.3
42.5°	1591.1	1620.3	1643.7	1679.7	1699.2
45°	1514.1	1543.3	1567.7	1607.6	1626.2
47.5°	1431.3	1463.4	1489.7	1528.7	1549.2
50°	1343.6	1378.7	1411.8	1449.8	1471.2
52.5°	1256.9	1291.0	1329.0	1366.0	1387.4
55°	1168.2	1203.3	1243.2	1282.2	1302.7
57.5°	1078.6	1113.7	1157.5	1192.6	1214.0
60°	990.9	1023.0	1067.9	1102.9	1120.5
62.5°	891.5	928.5	974.3	1009.4	1019.1
65°	799.9	833.0	878.8	905.1	911.0
67.5°	702.5	735.6	781.4	796.0	804.8
70°	604.1	639.2	679.1	688.8	695.7
72.5°	504.7	540.8	571.9	581.7	587.5
75°	407.3	442.3	465.7	477.4	479.4
77.5°	312.8	344.9	366.3	380.0	380.0
80°	223.1	247.5	270.9	285.5	284.5
82.5°	142.3	160.8	185.1	195.8	202.7
85°	74.0	85.7	108.2	113.0	115.9
87.5°	23.4	30.2	39.0	32.2	31.2
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	18.86	20.51	19.22	20.82	21.14	19.40	21.05	19.76	21.36	21.68
	3H	20.63	22.12	21.01	22.45	22.81	21.26	22.75	21.63	23.08	23.44
	4H	21.25	22.66	21.65	23.01	23.38	21.93	23.34	22.33	23.68	24.06
	6H	21.66	22.96	22.07	23.33	23.72	22.41	23.72	22.83	24.08	24.47
	8H	21.76	23.01	22.18	23.40	23.79	22.57	23.82	23.00	24.21	24.61
	12H	21.81	23.00	22.24	23.38	23.81	22.67	23.86	23.10	24.25	24.67
4H	2H	19.60	21.00	19.99	21.35	21.73	20.02	21.42	20.41	21.77	22.15
	3H	21.59	22.77	22.00	23.17	23.57	22.10	23.28	22.50	23.67	24.07
	4H	22.34	23.41	22.77	23.82	24.25	22.90	23.97	23.33	24.38	24.81
	6H	22.86	23.79	23.31	24.23	24.69	23.51	24.45	23.96	24.89	25.34
	8H	22.99	23.87	23.45	24.31	24.77	23.71	24.59	24.17	25.03	25.50
	12H	23.07	23.85	23.55	24.33	24.80	23.85	24.64	24.33	25.12	25.58
8H	4H	22.69	23.57	23.15	24.01	24.47	23.19	24.06	23.65	24.50	24.97
	6H	23.32	24.05	23.82	24.54	25.01	23.92	24.65	24.41	25.13	25.61
	8H	23.52	24.17	24.03	24.68	25.16	24.19	24.84	24.70	25.35	25.83
	12H	23.64	24.22	24.15	24.71	25.27	24.40	24.97	24.90	25.46	26.02
12H	4H	22.73	23.52	23.21	23.99	24.46	23.21	24.00	23.69	24.47	24.94
	6H	23.39	24.04	23.90	24.55	25.03	23.96	24.61	24.47	25.12	25.60
	8H	23.64	24.21	24.14	24.70	25.26	24.29	24.86	24.79	25.35	25.91