

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: P1585888

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585888
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-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 7200 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

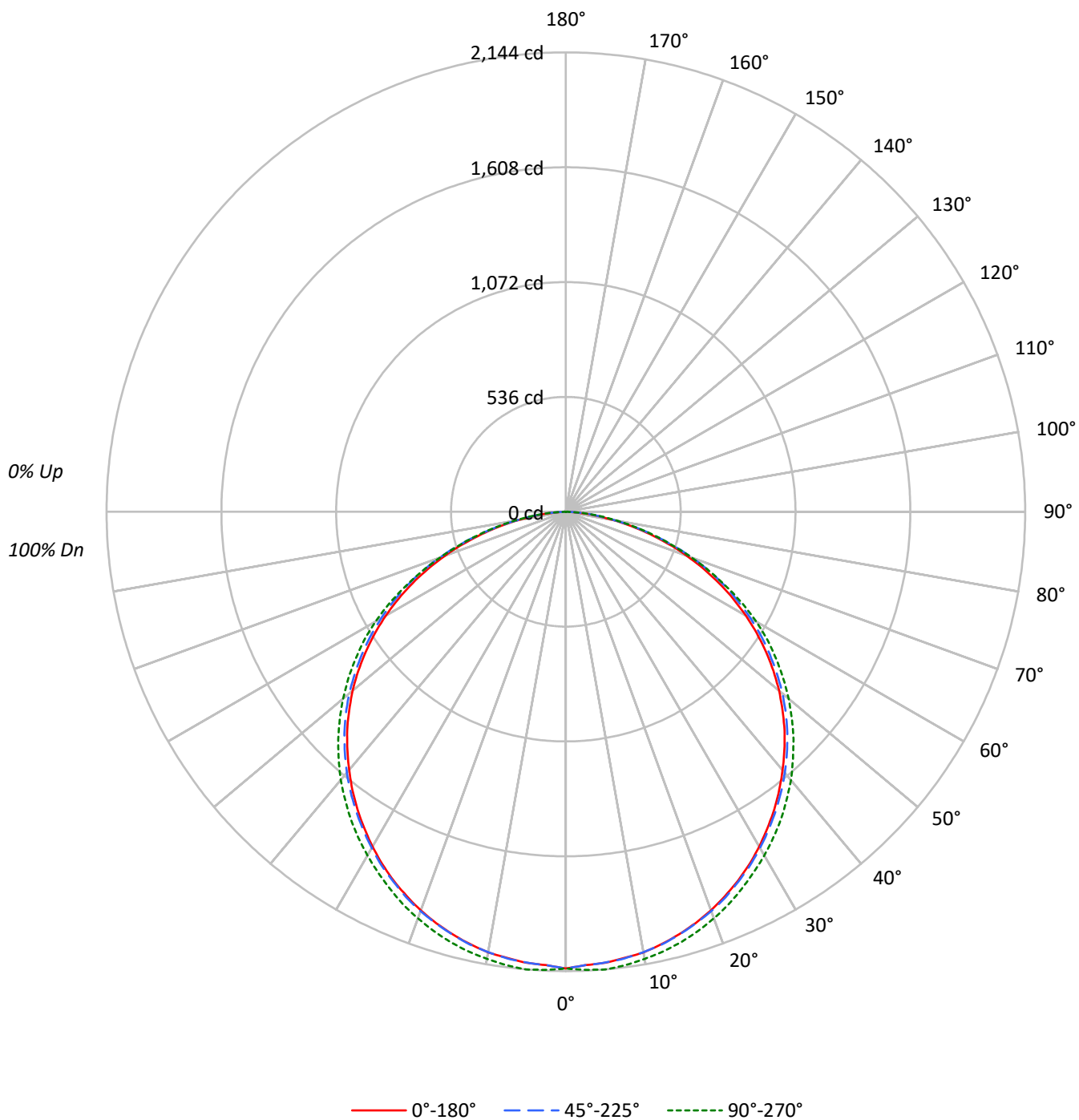
Lumens per Lamp: N/A
Luminaire Lumens: 6290.0 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1585888

CATALOG NUMBER: 14CZSP-SB-70VHE-L945-S

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°	7182	7182	7182
5°	7148	7144	7252
10°	7145	7141	7250
15°	7123	7130	7254
20°	7101	7115	7242
25°	7065	7083	7219
30°	7023	7053	7206
35°	6977	7021	7203
40°	6923	6995	7190
45°	6880	6967	7160
50°	6811	6917	7114
55°	6705	6829	7044
60°	6543	6712	6919
65°	6297	6535	6604
70°	5921	6196	6158
75°	5317	5542	5580
80°	4391	4616	4859
85°	2942	3425	3611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7160 cd/sqm

TEST NUMBER: P1585888

CATALOG NUMBER: 14CZSP-SB-70VHE-L945-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.0	3.2
10°-20°	580.7	9.2
20°-30°	884.3	14.1
30°-40°	1076.2	17.1
40°-50°	1134.5	18.0
50°-60°	1044.9	16.6
60°-70°	807.0	12.8
70°-80°	451.6	7.2
80°-90°	108.8	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°	1666.9	26.5
0°-40°	2743.1	43.6
0°-60°	4922.5	78.3
0°-90°	6290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6290.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2131	2131	2131	2131	2131	
5°	2113	2143	2112	2115	2144	201
15°	2042	2070	2044	2055	2079	576
25°	1900	1927	1905	1918	1942	876
35°	1696	1721	1707	1728	1751	1061
45°	1444	1464	1462	1484	1502	1113
55°	1141	1161	1162	1187	1199	1019
65°	790	813	820	827	828	780
75°	408	433	426	425	429	433
85°	76	84	89	99	93	98
90°	0	0	0	0	0	

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CATALOG NUMBER: 14CZSP-SB-70VHE-L945-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2131.4	2131.4	2131.4	2131.4	2131.4
2.5°	2118.0	2148.8	2118.0	2122.8	2140.1
5°	2113.2	2143.0	2112.2	2115.1	2144.0
7.5°	2100.6	2131.4	2102.6	2106.4	2134.3
10°	2088.1	2116.0	2087.1	2092.0	2118.9
12.5°	2066.9	2095.8	2068.8	2074.6	2101.6
15°	2041.9	2069.8	2043.8	2055.4	2079.4
17.5°	2013.0	2040.0	2014.9	2028.4	2051.5
20°	1980.2	2006.2	1984.1	1993.7	2019.7
22.5°	1941.7	1968.7	1947.5	1956.2	1984.1
25°	1900.3	1927.3	1905.1	1917.6	1941.7
27.5°	1855.0	1881.0	1861.8	1877.2	1898.4
30°	1804.9	1830.0	1812.6	1830.9	1852.1
32.5°	1751.0	1778.0	1760.6	1781.8	1803.0
35°	1696.1	1721.1	1706.7	1727.9	1751.0
37.5°	1636.4	1660.5	1649.9	1672.0	1693.2
40°	1573.8	1600.8	1590.2	1613.3	1634.5
42.5°	1509.3	1535.3	1526.6	1550.7	1569.0
45°	1443.8	1464.0	1462.1	1484.2	1502.5
47.5°	1371.5	1396.6	1392.7	1414.9	1431.2
50°	1299.3	1319.5	1319.5	1340.7	1357.1
52.5°	1221.3	1241.5	1241.5	1266.5	1280.0
55°	1141.3	1160.6	1162.5	1186.6	1199.1
57.5°	1056.6	1076.8	1080.7	1104.7	1116.3
60°	970.9	990.1	995.9	1020.0	1026.7
62.5°	881.3	904.4	907.3	926.5	930.4
65°	789.8	812.9	819.6	827.3	828.3
67.5°	696.4	720.4	727.2	727.2	727.2
70°	601.0	623.2	628.9	625.1	625.1
72.5°	504.7	528.8	525.9	522.0	524.0
75°	408.4	433.4	425.7	424.7	428.6
77.5°	315.9	340.0	327.5	335.2	336.1
80°	226.3	244.6	237.9	249.5	250.4
82.5°	145.4	157.0	158.9	168.6	165.7
85°	76.1	83.8	88.6	99.2	93.4
87.5°	24.1	31.8	28.9	33.7	26.0
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	18.88	20.54	19.25	20.85	21.17	19.10	20.76	19.47	21.07	21.38
	3H	20.71	22.20	21.08	22.53	22.89	20.90	22.40	21.28	22.73	23.09
	4H	21.35	22.76	21.75	23.11	23.49	21.54	22.95	21.94	23.30	23.67
	6H	21.78	23.09	22.19	23.45	23.84	21.99	23.30	22.40	23.67	24.06
	8H	21.89	23.14	22.31	23.53	23.93	22.12	23.38	22.55	23.76	24.16
	12H	21.94	23.14	22.37	23.52	23.95	22.20	23.40	22.63	23.78	24.21
4H	2H	19.56	20.98	19.96	21.32	21.70	19.73	21.15	20.13	21.49	21.87
	3H	21.60	22.79	22.01	23.19	23.59	21.75	22.93	22.16	23.33	23.73
	4H	22.38	23.46	22.82	23.87	24.31	22.51	23.58	22.94	23.99	24.43
	6H	22.93	23.87	23.39	24.31	24.77	23.08	24.02	23.53	24.46	24.91
	8H	23.08	23.96	23.54	24.40	24.86	23.25	24.13	23.71	24.57	25.04
	12H	23.16	23.95	23.64	24.43	24.90	23.37	24.16	23.85	24.63	25.10
8H	4H	22.69	23.57	23.15	24.01	24.48	22.80	23.68	23.26	24.12	24.58
	6H	23.35	24.08	23.84	24.57	25.04	23.48	24.21	23.97	24.70	25.17
	8H	23.56	24.21	24.07	24.72	25.20	23.72	24.37	24.23	24.88	25.37
	12H	23.69	24.27	24.20	24.76	25.32	23.90	24.48	24.40	24.97	25.52
12H	4H	22.72	23.51	23.20	23.99	24.46	22.83	23.62	23.31	24.09	24.56
	6H	23.40	24.05	23.90	24.56	25.04	23.52	24.18	24.03	24.68	25.17
	8H	23.65	24.23	24.16	24.72	25.28	23.81	24.39	24.32	24.88	25.44