

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: P1585868

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585868
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-70-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6700 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

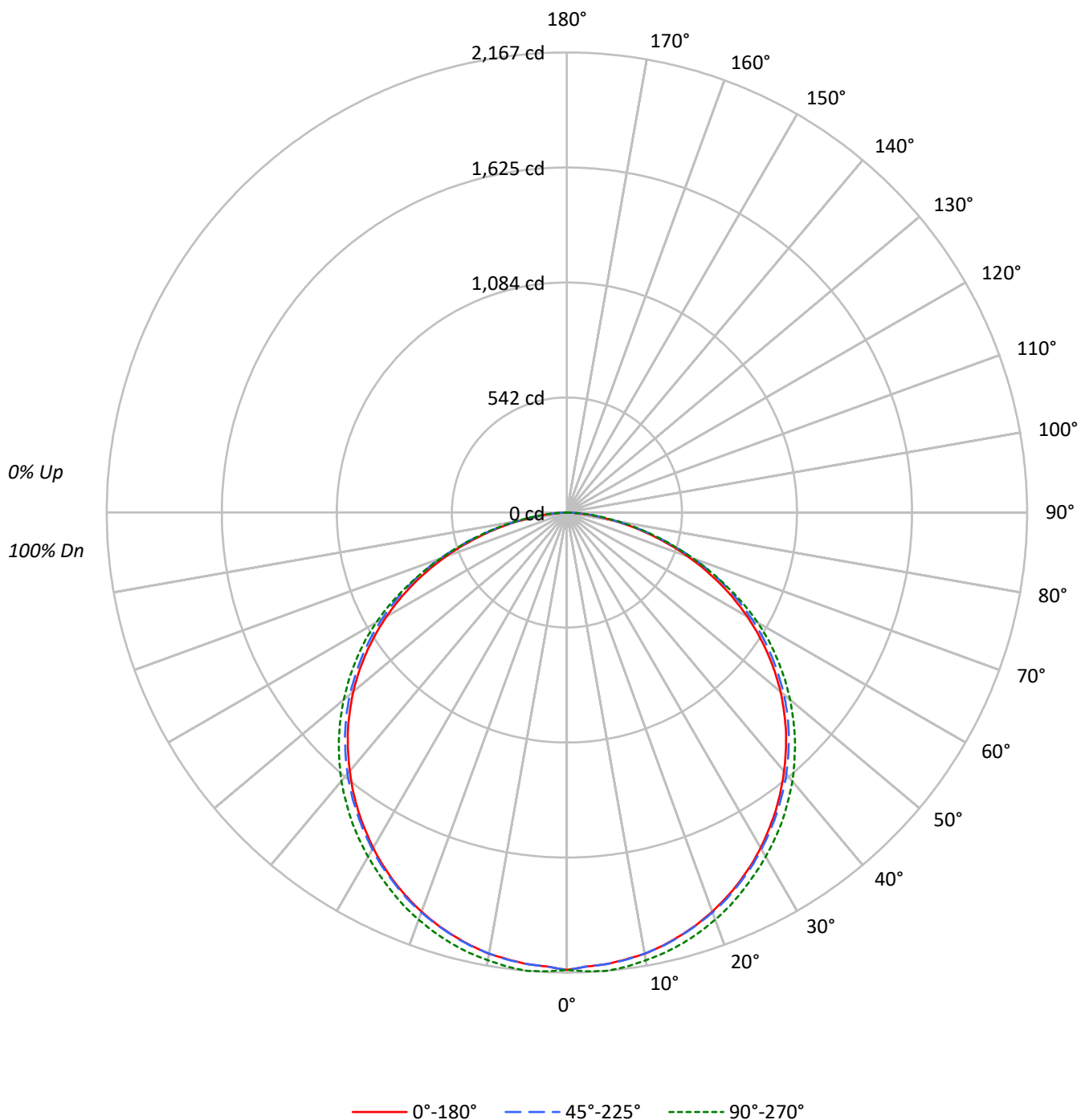
Lumens per Lamp: N/A
Luminaire Lumens: 6358.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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	99	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7260	7260	7260
5°	7225	7222	7330
10°	7222	7218	7328
15°	7200	7207	7332
20°	7177	7191	7321
25°	7141	7160	7297
30°	7099	7129	7284
35°	7052	7097	7280
40°	6997	7070	7267
45°	6954	7043	7238
50°	6884	6992	7191
55°	6778	6903	7121
60°	6614	6784	6994
65°	6365	6606	6676
70°	5985	6263	6224
75°	5374	5602	5640
80°	4440	4667	4911
85°	2973	3464	3650

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7238 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.2	3.2
10°-20°	587.0	9.2
20°-30°	893.8	14.1
30°-40°	1087.8	17.1
40°-50°	1146.8	18.0
50°-60°	1056.2	16.6
60°-70°	815.8	12.8
70°-80°	456.5	7.2
80°-90°	110.0	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°	1685.0	26.5
0°-40°	2772.8	43.6
0°-60°	4975.8	78.3
0°-90°	6358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2154	2154	2154	2154	2154	
5°	2136	2166	2135	2138	2167	203
15°	2064	2092	2066	2078	2102	583
25°	1921	1948	1926	1938	1963	885
35°	1714	1740	1725	1747	1770	1072
45°	1459	1480	1478	1500	1519	1125
55°	1154	1173	1175	1199	1212	1030
65°	798	822	828	836	837	789
75°	413	438	430	429	433	438
85°	77	85	90	100	94	99
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2154.5	2154.5	2154.5	2154.5	2154.5
2.5°	2140.9	2172.0	2140.9	2145.7	2163.3
5°	2136.0	2166.2	2135.0	2137.9	2167.1
7.5°	2123.3	2154.5	2125.3	2129.2	2157.4
10°	2110.7	2138.9	2109.7	2114.6	2141.8
12.5°	2089.3	2118.5	2091.2	2097.1	2124.3
15°	2064.0	2092.2	2065.9	2077.6	2101.9
17.5°	2034.7	2062.0	2036.7	2050.3	2073.7
20°	2001.6	2027.9	2005.5	2015.3	2041.6
22.5°	1962.7	1990.0	1968.5	1977.3	2005.5
25°	1920.8	1948.1	1925.7	1938.4	1962.7
27.5°	1875.1	1901.4	1881.9	1897.5	1918.9
30°	1824.5	1849.8	1832.2	1850.7	1872.2
32.5°	1769.9	1797.2	1779.7	1801.1	1822.5
35°	1714.4	1739.8	1725.2	1746.6	1769.9
37.5°	1654.1	1678.4	1667.7	1690.1	1711.5
40°	1590.8	1618.1	1607.4	1630.7	1652.1
42.5°	1525.6	1551.9	1543.1	1567.4	1585.9
45°	1459.4	1479.8	1477.9	1500.3	1518.8
47.5°	1386.4	1411.7	1407.8	1430.2	1446.7
50°	1313.3	1333.8	1333.8	1355.2	1371.7
52.5°	1234.5	1254.9	1254.9	1280.2	1293.9
55°	1153.7	1173.1	1175.1	1199.4	1212.1
57.5°	1068.0	1088.4	1092.3	1116.7	1128.4
60°	981.4	1000.8	1006.7	1031.0	1037.8
62.5°	890.8	914.2	917.1	936.6	940.5
65°	798.3	821.7	828.5	836.3	837.3
67.5°	703.9	728.2	735.0	735.0	735.0
70°	607.5	629.9	635.7	631.8	631.8
72.5°	510.1	534.5	531.6	527.7	529.6
75°	412.8	438.1	430.3	429.3	433.2
77.5°	319.3	343.7	331.0	338.8	339.8
80°	228.8	247.3	240.5	252.2	253.1
82.5°	147.0	158.7	160.6	170.4	167.5
85°	76.9	84.7	89.6	100.3	94.4
87.5°	24.3	32.1	29.2	34.1	26.3
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	18.92	20.58	19.29	20.89	21.21	19.14	20.79	19.50	21.11	21.42
	3H	20.74	22.24	21.12	22.57	22.93	20.94	22.44	21.32	22.76	23.12
	4H	21.39	22.80	21.79	23.15	23.52	21.58	22.99	21.97	23.34	23.71
	6H	21.82	23.13	22.23	23.49	23.88	22.03	23.34	22.44	23.70	24.09
	8H	21.93	23.18	22.35	23.57	23.97	22.16	23.41	22.59	23.80	24.20
	12H	21.98	23.18	22.41	23.56	23.99	22.24	23.44	22.67	23.82	24.25
4H	2H	19.60	21.01	20.00	21.36	21.74	19.77	21.18	20.17	21.53	21.91
	3H	21.64	22.83	22.05	23.22	23.62	21.78	22.97	22.19	23.37	23.77
	4H	22.42	23.49	22.85	23.91	24.34	22.54	23.62	22.97	24.03	24.46
	6H	22.97	23.91	23.42	24.35	24.80	23.12	24.05	23.57	24.49	24.95
	8H	23.12	24.00	23.58	24.44	24.90	23.29	24.17	23.75	24.61	25.08
	12H	23.20	23.99	23.68	24.46	24.93	23.41	24.19	23.88	24.67	25.14
8H	4H	22.73	23.61	23.19	24.05	24.51	22.84	23.71	23.30	24.16	24.62
	6H	23.39	24.12	23.88	24.61	25.08	23.52	24.25	24.01	24.74	25.21
	8H	23.59	24.25	24.10	24.75	25.24	23.76	24.41	24.27	24.92	25.40
	12H	23.73	24.31	24.23	24.80	25.36	23.94	24.51	24.44	25.00	25.56
12H	4H	22.76	23.55	23.24	24.02	24.49	22.87	23.65	23.34	24.13	24.60
	6H	23.43	24.09	23.94	24.59	25.08	23.56	24.22	24.07	24.72	25.21
	8H	23.69	24.27	24.20	24.76	25.32	23.85	24.43	24.36	24.92	25.48