

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: P1585884

Luminaire Tested: 14CZSP-SB-70VHE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585884
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-L935-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 7200 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

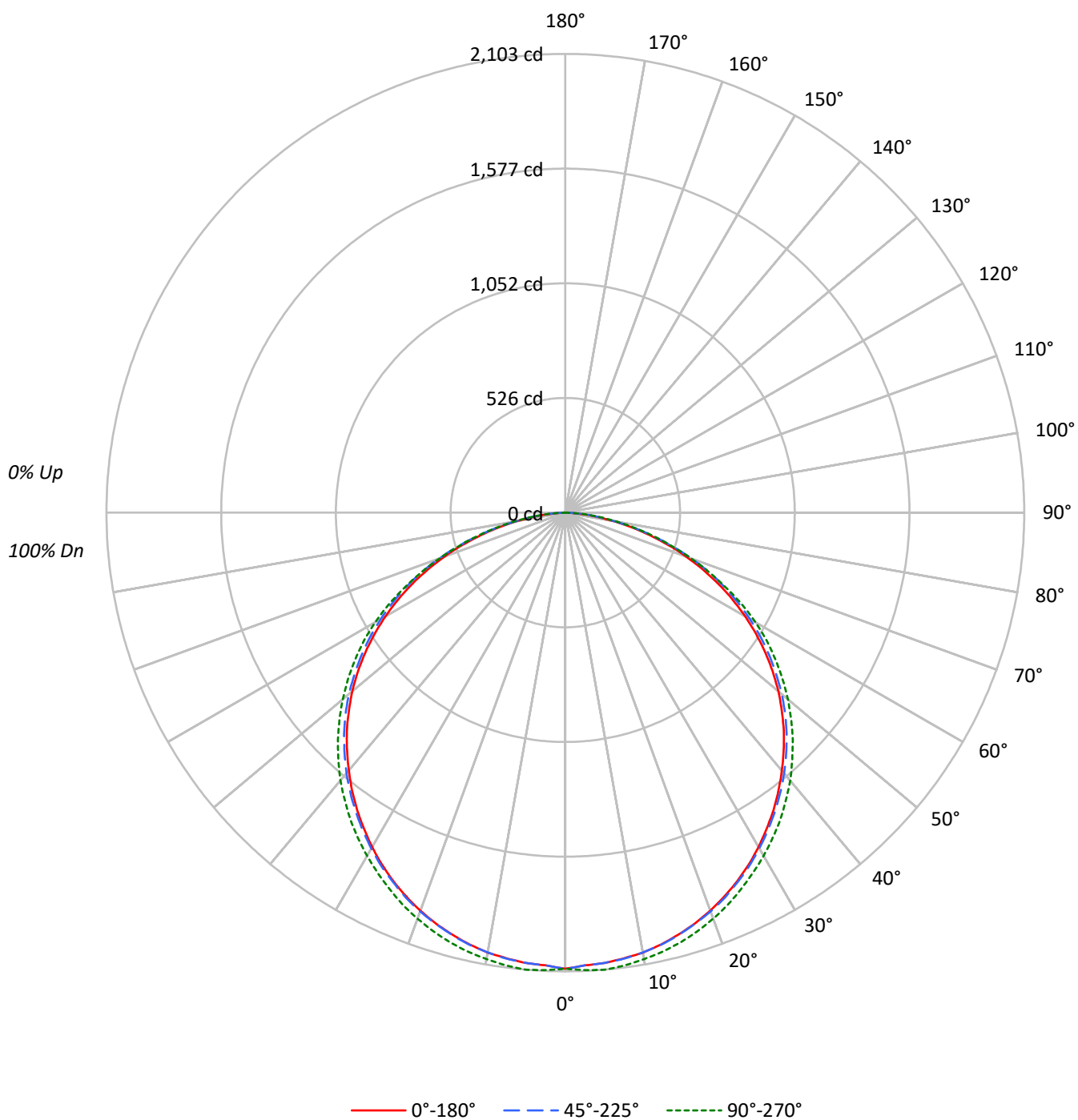
Lumens per Lamp: N/A
Luminaire Lumens: 6170.0 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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	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°	7045	7045	7045
5°	7011	7008	7114
10°	7008	7005	7112
15°	6987	6994	7116
20°	6965	6979	7104
25°	6930	6948	7082
30°	6889	6918	7069
35°	6844	6886	7065
40°	6791	6861	7052
45°	6749	6834	7023
50°	6681	6785	6978
55°	6577	6699	6910
60°	6418	6583	6787
65°	6177	6410	6478
70°	5808	6078	6041
75°	5215	5437	5473
80°	4308	4529	4766
85°	2884	3360	3541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7023 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.2	3.2
10°-20°	569.6	9.2
20°-30°	867.4	14.1
30°-40°	1055.6	17.1
40°-50°	1112.9	18.0
50°-60°	1025.0	16.6
60°-70°	791.6	12.8
70°-80°	443.0	7.2
80°-90°	106.8	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°	1635.1	26.5
0°-40°	2690.8	43.6
0°-60°	4828.6	78.3
0°-90°	6170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6170.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2091	2091	2091	2091	2091	
5°	2073	2102	2072	2075	2103	197
15°	2003	2030	2005	2016	2040	565
25°	1864	1890	1869	1881	1905	859
35°	1664	1688	1674	1695	1718	1041
45°	1416	1436	1434	1456	1474	1091
55°	1120	1138	1140	1164	1176	999
65°	775	797	804	812	812	765
75°	401	425	418	417	420	425
85°	75	82	87	97	92	96
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2090.8	2090.8	2090.8	2090.8	2090.8
2.5°	2077.6	2107.8	2077.6	2082.3	2099.3
5°	2072.8	2102.1	2071.9	2074.7	2103.1
7.5°	2060.6	2090.8	2062.4	2066.2	2093.6
10°	2048.3	2075.7	2047.3	2052.1	2078.5
12.5°	2027.5	2055.8	2029.4	2035.0	2061.5
15°	2002.9	2030.3	2004.8	2016.1	2039.8
17.5°	1974.6	2001.0	1976.5	1989.7	2012.4
20°	1942.5	1968.0	1946.2	1955.7	1981.2
22.5°	1904.7	1931.1	1910.3	1918.8	1946.2
25°	1864.0	1890.5	1868.8	1881.0	1904.7
27.5°	1819.6	1845.1	1826.2	1841.4	1862.2
30°	1770.5	1795.1	1778.1	1796.0	1816.8
32.5°	1717.6	1744.1	1727.0	1747.8	1768.6
35°	1663.7	1688.3	1674.1	1694.9	1717.6
37.5°	1605.2	1628.8	1618.4	1640.1	1660.9
40°	1543.8	1570.2	1559.8	1582.5	1603.3
42.5°	1480.5	1506.0	1497.5	1521.1	1539.0
45°	1416.2	1436.1	1434.2	1455.9	1473.8
47.5°	1345.4	1369.9	1366.1	1387.9	1403.9
50°	1274.5	1294.3	1294.3	1315.1	1331.2
52.5°	1198.0	1217.8	1217.8	1242.4	1255.6
55°	1119.6	1138.5	1140.3	1164.0	1176.2
57.5°	1036.4	1056.3	1060.0	1083.7	1095.0
60°	952.3	971.2	976.9	1000.5	1007.1
62.5°	864.5	887.1	890.0	908.9	912.7
65°	774.7	797.4	804.0	811.6	812.5
67.5°	683.1	706.7	713.3	713.3	713.3
70°	589.5	611.3	616.9	613.2	613.2
72.5°	495.1	518.7	515.8	512.1	514.0
75°	400.6	425.1	417.6	416.6	420.4
77.5°	309.9	333.5	321.2	328.8	329.7
80°	222.0	240.0	233.4	244.7	245.6
82.5°	142.7	154.0	155.9	165.3	162.5
85°	74.6	82.2	86.9	97.3	91.6
87.5°	23.6	31.2	28.3	33.1	25.5
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	18.82	20.47	19.18	20.79	21.10	19.03	20.69	19.40	21.00	21.32
	3H	20.64	22.14	21.02	22.46	22.82	20.83	22.33	21.21	22.66	23.02
	4H	21.29	22.70	21.68	23.04	23.42	21.47	22.88	21.87	23.23	23.61
	6H	21.71	23.02	22.12	23.39	23.78	21.93	23.24	22.34	23.60	23.99
	8H	21.82	23.07	22.25	23.46	23.86	22.06	23.31	22.48	23.70	24.10
	12H	21.88	23.08	22.31	23.46	23.89	22.13	23.33	22.56	23.71	24.14
4H	2H	19.50	20.91	19.89	21.26	21.63	19.67	21.08	20.06	21.43	21.80
	3H	21.54	22.72	21.95	23.12	23.52	21.68	22.87	22.09	23.26	23.66
	4H	22.32	23.39	22.75	23.80	24.24	22.44	23.51	22.87	23.92	24.36
	6H	22.87	23.81	23.32	24.25	24.70	23.01	23.95	23.47	24.39	24.85
	8H	23.01	23.89	23.47	24.33	24.80	23.19	24.06	23.65	24.51	24.97
	12H	23.10	23.89	23.58	24.36	24.83	23.30	24.09	23.78	24.56	25.03
8H	4H	22.63	23.50	23.08	23.94	24.41	22.73	23.61	23.19	24.05	24.52
	6H	23.28	24.01	23.78	24.50	24.98	23.41	24.14	23.91	24.63	25.11
	8H	23.49	24.14	24.00	24.65	25.13	23.65	24.31	24.16	24.81	25.30
	12H	23.62	24.20	24.13	24.69	25.25	23.83	24.41	24.34	24.90	25.46
12H	4H	22.66	23.44	23.14	23.92	24.39	22.76	23.55	23.24	24.02	24.49
	6H	23.33	23.99	23.84	24.49	24.98	23.46	24.11	23.96	24.62	25.10
	8H	23.59	24.16	24.09	24.65	25.21	23.75	24.32	24.25	24.81	25.37