

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: P1585887

Luminaire Tested: 14CZSP-SB-70VHE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585887
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-L940
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 7200 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

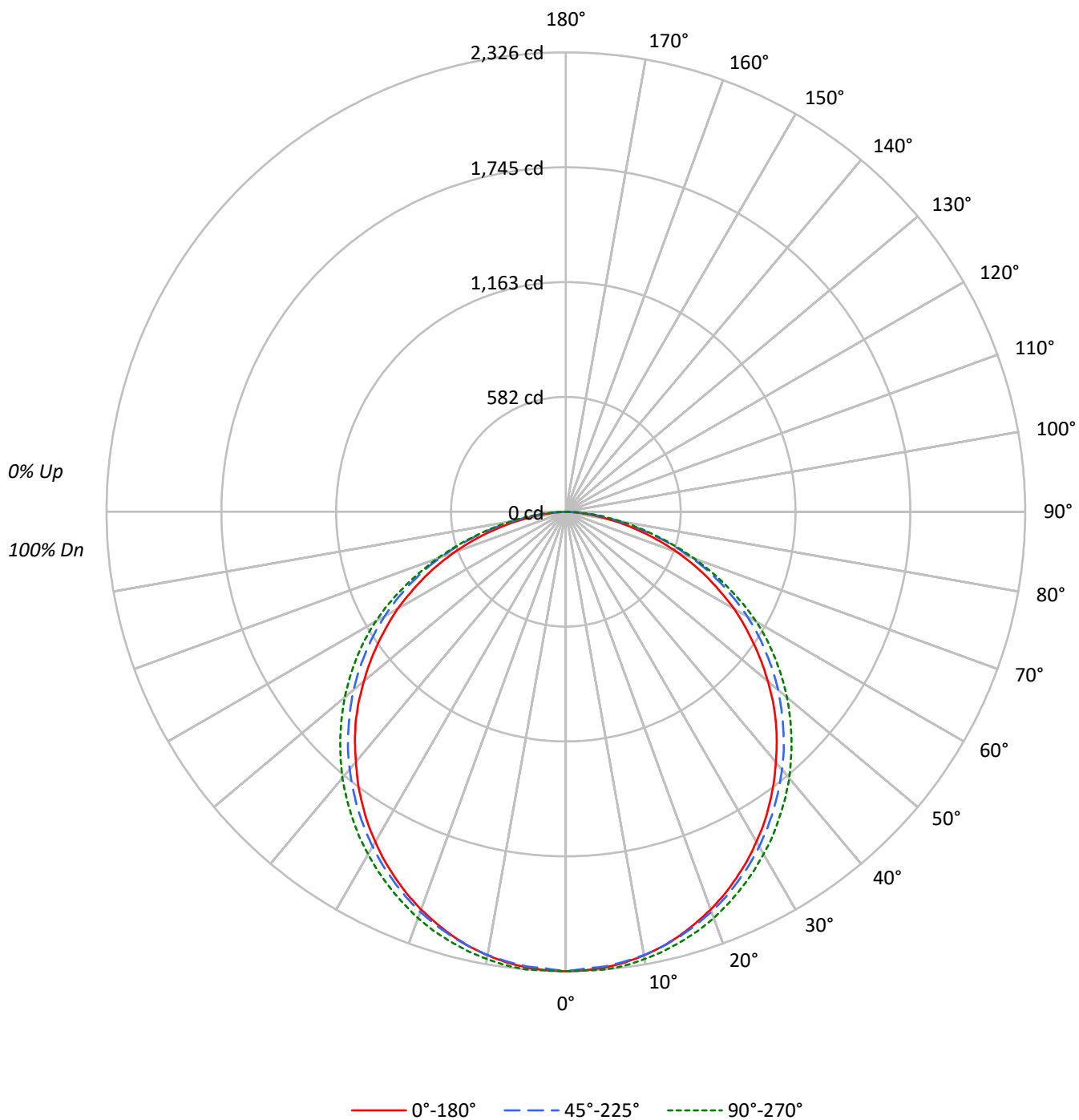
Lumens per Lamp: N/A
Luminaire Lumens: 6721.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	7839	7839	7839
5°	7833	7813	7866
10°	7804	7798	7867
15°	7754	7771	7862
20°	7686	7731	7849
25°	7602	7674	7818
30°	7507	7617	7790
35°	7403	7554	7762
40°	7274	7490	7742
45°	7169	7423	7700
50°	6999	7354	7663
55°	6819	7257	7604
60°	6635	7151	7503
65°	6337	6963	7217
70°	5913	6648	6810
75°	5269	6025	6201
80°	4302	5222	5486
85°	2845	4156	4454

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7700 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.3	3.3
10°-20°	631.2	9.4
20°-30°	955.6	14.2
30°-40°	1153.4	17.2
40°-50°	1204.6	17.9
50°-60°	1101.9	16.4
60°-70°	851.9	12.7
70°-80°	482.3	7.2
80°-90°	119.8	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°	1807.1	26.9
0°-40°	2960.5	44.0
0°-60°	5267.0	78.4
0°-90°	6721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6721.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2326	2326	2326	2326	2326	
5°	2316	2332	2310	2312	2326	220
15°	2223	2242	2228	2238	2254	627
25°	2045	2071	2064	2083	2103	942
35°	1800	1825	1836	1868	1887	1126
45°	1504	1534	1558	1597	1616	1159
55°	1161	1196	1235	1274	1294	1038
65°	795	828	873	899	905	784
75°	405	440	463	474	476	429
85°	74	85	108	112	115	95
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2326.4	2326.4	2326.4	2326.4	2326.4
2.5°	2323.5	2340.0	2314.8	2319.6	2324.5
5°	2315.8	2332.2	2310.0	2311.9	2325.5
7.5°	2301.3	2319.6	2296.4	2300.3	2316.7
10°	2280.9	2299.3	2279.0	2282.9	2299.3
12.5°	2254.8	2273.2	2255.7	2261.6	2280.0
15°	2222.8	2242.2	2227.7	2238.3	2253.8
17.5°	2184.1	2208.3	2192.8	2209.3	2224.8
20°	2143.4	2167.6	2156.0	2170.6	2188.9
22.5°	2097.0	2121.2	2112.5	2128.0	2148.3
25°	2044.7	2070.8	2064.1	2083.4	2102.8
27.5°	1990.5	2015.7	2013.7	2035.0	2055.3
30°	1929.5	1956.6	1957.6	1982.7	2002.1
32.5°	1868.5	1892.7	1898.5	1926.6	1948.9
35°	1799.8	1824.9	1836.5	1867.5	1886.9
37.5°	1730.1	1758.1	1770.7	1804.6	1824.9
40°	1653.6	1685.5	1702.9	1738.8	1760.1
42.5°	1581.0	1610.0	1633.2	1669.1	1688.4
45°	1504.5	1533.5	1557.7	1597.4	1615.8
47.5°	1422.2	1454.1	1480.3	1519.0	1539.3
50°	1335.1	1369.9	1402.8	1440.6	1461.9
52.5°	1248.9	1282.8	1320.5	1357.3	1378.6
55°	1160.8	1195.6	1235.3	1274.1	1294.4
57.5°	1071.7	1106.6	1150.1	1185.0	1206.3
60°	984.6	1016.5	1061.1	1095.9	1113.4
62.5°	885.8	922.6	968.1	1003.0	1012.7
65°	794.8	827.8	873.3	899.4	905.2
67.5°	698.0	730.9	776.4	791.0	799.7
70°	600.2	635.1	674.8	684.5	691.2
72.5°	501.5	537.3	568.3	578.0	583.8
75°	404.7	439.5	462.8	474.4	476.3
77.5°	310.8	342.7	364.0	377.6	377.6
80°	221.7	245.9	269.1	283.7	282.7
82.5°	141.3	159.7	183.9	194.6	201.4
85°	73.6	85.2	107.5	112.3	115.2
87.5°	23.2	30.0	38.7	31.9	31.0
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	18.83	20.48	19.20	20.80	21.11	19.38	21.03	19.74	21.34	21.65
	3H	20.61	22.10	20.98	22.43	22.79	21.24	22.73	21.61	23.06	23.42
	4H	21.23	22.64	21.63	22.99	23.36	21.91	23.32	22.31	23.66	24.04
	6H	21.64	22.94	22.05	23.30	23.70	22.39	23.70	22.80	24.06	24.45
	8H	21.74	22.98	22.16	23.37	23.77	22.55	23.80	22.97	24.19	24.58
	12H	21.78	22.98	22.21	23.36	23.79	22.65	23.84	23.08	24.22	24.65
4H	2H	19.57	20.98	19.97	21.33	21.70	19.99	21.40	20.39	21.75	22.12
	3H	21.57	22.75	21.97	23.14	23.54	22.07	23.26	22.48	23.65	24.05
	4H	22.31	23.38	22.75	23.80	24.23	22.87	23.94	23.31	24.36	24.79
	6H	22.83	23.77	23.29	24.21	24.66	23.49	24.42	23.94	24.86	25.32
	8H	22.97	23.84	23.43	24.29	24.75	23.69	24.57	24.15	25.01	25.47
	12H	23.05	23.83	23.52	24.31	24.78	23.83	24.62	24.31	25.09	25.56
8H	4H	22.67	23.54	23.13	23.99	24.45	23.16	24.04	23.62	24.48	24.95
	6H	23.30	24.03	23.79	24.52	24.99	23.90	24.62	24.39	25.11	25.59
	8H	23.50	24.15	24.00	24.65	25.14	24.17	24.82	24.68	25.33	25.81
	12H	23.62	24.20	24.13	24.69	25.25	24.38	24.95	24.88	25.44	26.00
12H	4H	22.71	23.50	23.19	23.97	24.44	23.19	23.98	23.67	24.45	24.92
	6H	23.37	24.02	23.87	24.53	25.01	23.94	24.59	24.45	25.10	25.58
	8H	23.62	24.19	24.12	24.68	25.24	24.27	24.84	24.77	25.33	25.89