

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: P1585878

Luminaire Tested: 14CZSP-SB-70VHE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585878
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-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 7200 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

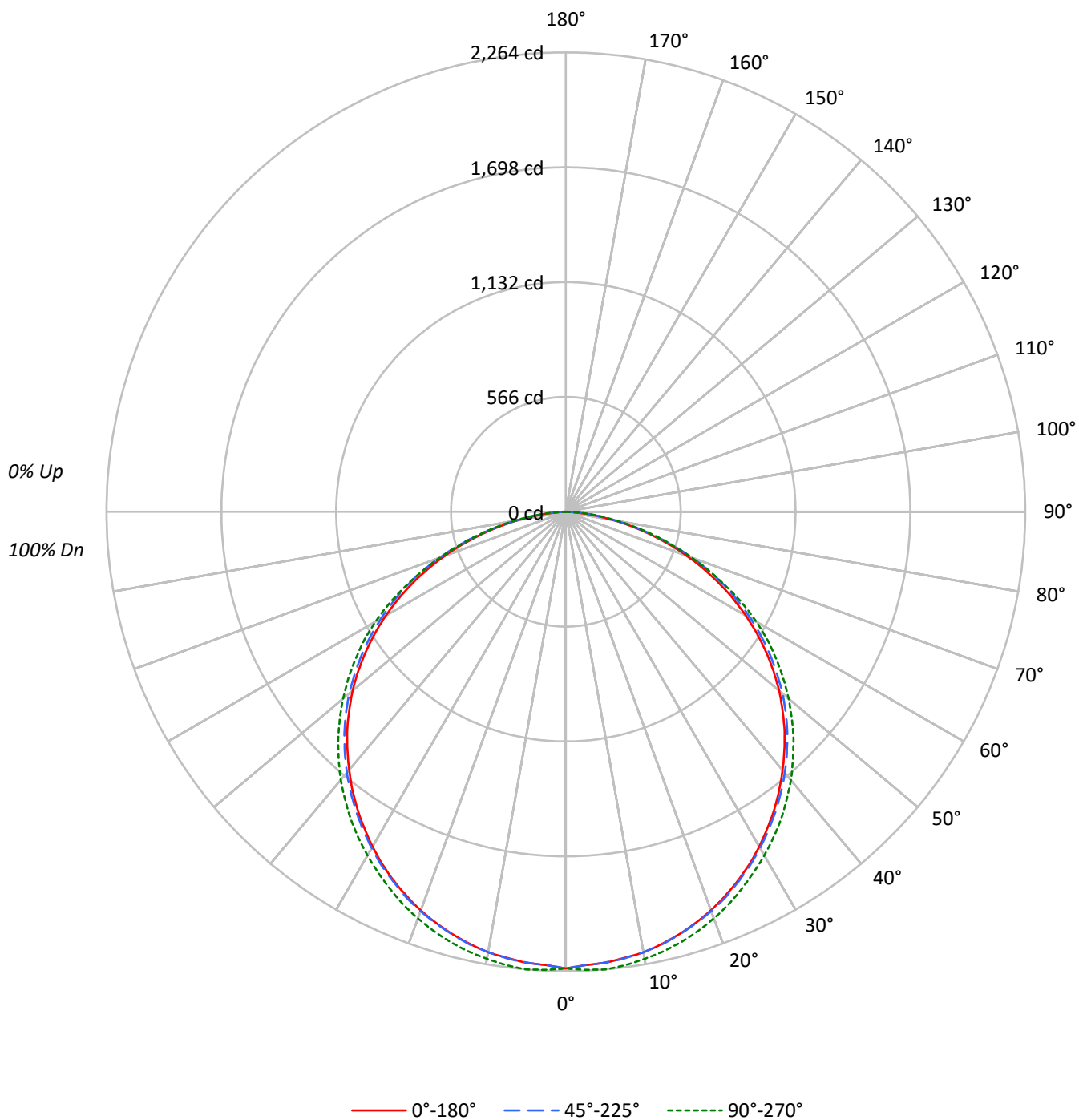
Lumens per Lamp: N/A
Luminaire Lumens: 6642.0 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	7584	7584	7584
5°	7548	7544	7658
10°	7545	7541	7656
15°	7521	7529	7660
20°	7498	7513	7648
25°	7460	7479	7623
30°	7416	7447	7610
35°	7367	7413	7606
40°	7310	7386	7592
45°	7265	7357	7561
50°	7192	7304	7512
55°	7080	7212	7439
60°	6909	7087	7307
65°	6650	6901	6974
70°	6252	6543	6503
75°	5614	5852	5892
80°	4638	4874	5131
85°	3105	3619	3816

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7561 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.3	3.2
10°-20°	613.2	9.2
20°-30°	933.7	14.1
30°-40°	1136.4	17.1
40°-50°	1198.0	18.0
50°-60°	1103.4	16.6
60°-70°	852.2	12.8
70°-80°	476.9	7.2
80°-90°	114.9	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°	1760.2	26.5
0°-40°	2896.6	43.6
0°-60°	5198.0	78.3
0°-90°	6642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6642.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2251	2251	2251	2251	2251	
5°	2231	2263	2230	2233	2264	212
15°	2156	2186	2158	2170	2196	609
25°	2007	2035	2012	2025	2050	925
35°	1791	1818	1802	1825	1849	1120
45°	1525	1546	1544	1567	1587	1175
55°	1205	1226	1228	1253	1266	1076
65°	834	858	866	874	875	824
75°	431	458	450	448	453	457
85°	80	88	94	105	99	103
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2250.7	2250.7	2250.7	2250.7	2250.7
2.5°	2236.5	2269.0	2236.5	2241.6	2259.9
5°	2231.4	2262.9	2230.4	2233.4	2264.0
7.5°	2218.2	2250.7	2220.2	2224.3	2253.8
10°	2205.0	2234.5	2203.9	2209.0	2237.5
12.5°	2182.6	2213.1	2184.6	2190.7	2219.2
15°	2156.1	2185.6	2158.2	2170.4	2195.8
17.5°	2125.6	2154.1	2127.7	2141.9	2166.3
20°	2091.1	2118.5	2095.1	2105.3	2132.8
22.5°	2050.4	2078.8	2056.5	2065.6	2095.1
25°	2006.6	2035.1	2011.7	2024.9	2050.4
27.5°	1958.8	1986.3	1966.0	1982.2	2004.6
30°	1906.0	1932.4	1914.1	1933.4	1955.8
32.5°	1849.0	1877.5	1859.2	1881.5	1903.9
35°	1791.0	1817.5	1802.2	1824.6	1849.0
37.5°	1728.0	1753.4	1742.2	1765.6	1788.0
40°	1661.9	1690.3	1679.1	1703.6	1725.9
42.5°	1593.7	1621.2	1612.0	1637.4	1656.8
45°	1524.6	1545.9	1543.9	1567.3	1586.6
47.5°	1448.3	1474.7	1470.7	1494.0	1511.3
50°	1372.0	1393.4	1393.4	1415.7	1433.0
52.5°	1289.6	1311.0	1311.0	1337.4	1351.7
55°	1205.2	1225.5	1227.6	1253.0	1266.2
57.5°	1115.7	1137.1	1141.1	1166.6	1178.8
60°	1025.2	1045.5	1051.6	1077.1	1084.2
62.5°	930.6	955.0	958.1	978.4	982.5
65°	834.0	858.4	865.5	873.6	874.7
67.5°	735.3	760.8	767.9	767.9	767.9
70°	634.6	658.0	664.1	660.1	660.1
72.5°	532.9	558.4	555.3	551.2	553.3
75°	431.2	457.7	449.5	448.5	452.6
77.5°	333.6	359.0	345.8	353.9	355.0
80°	239.0	258.3	251.2	263.4	264.4
82.5°	153.6	165.8	167.8	178.0	174.9
85°	80.3	88.5	93.6	104.8	98.7
87.5°	25.4	33.6	30.5	35.6	27.5
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	19.07	20.73	19.44	21.04	21.36	19.29	20.95	19.66	21.26	21.57
	3H	20.90	22.39	21.27	22.72	23.08	21.09	22.59	21.47	22.92	23.28
	4H	21.54	22.95	21.94	23.30	23.68	21.73	23.14	22.13	23.49	23.86
	6H	21.97	23.28	22.38	23.64	24.03	22.18	23.49	22.59	23.86	24.25
	8H	22.08	23.33	22.50	23.72	24.12	22.31	23.56	22.74	23.95	24.35
	12H	22.13	23.33	22.56	23.71	24.14	22.39	23.59	22.82	23.97	24.40
4H	2H	19.75	21.17	20.15	21.51	21.89	19.92	21.34	20.32	21.68	22.06
	3H	21.79	22.98	22.20	23.38	23.78	21.94	23.12	22.35	23.52	23.92
	4H	22.57	23.65	23.00	24.06	24.49	22.69	23.77	23.13	24.18	24.62
	6H	23.12	24.06	23.58	24.50	24.96	23.27	24.21	23.72	24.65	25.10
	8H	23.27	24.15	23.73	24.59	25.05	23.44	24.32	23.90	24.76	25.23
	12H	23.35	24.14	23.83	24.62	25.09	23.56	24.35	24.04	24.82	25.29
8H	4H	22.88	23.76	23.34	24.20	24.67	22.99	23.87	23.45	24.31	24.77
	6H	23.54	24.27	24.03	24.76	25.23	23.67	24.40	24.16	24.89	25.36
	8H	23.75	24.40	24.25	24.91	25.39	23.91	24.56	24.42	25.07	25.55
	12H	23.88	24.46	24.39	24.95	25.51	24.09	24.66	24.59	25.15	25.71
12H	4H	22.91	23.70	23.39	24.18	24.64	23.02	23.81	23.50	24.28	24.75
	6H	23.59	24.24	24.09	24.75	25.23	23.71	24.37	24.22	24.87	25.36
	8H	23.84	24.42	24.35	24.91	25.47	24.00	24.58	24.51	25.07	25.63