

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: P1585872

Luminaire Tested: 14CZSP-SB-70VHE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585872
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-L830-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 7200 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

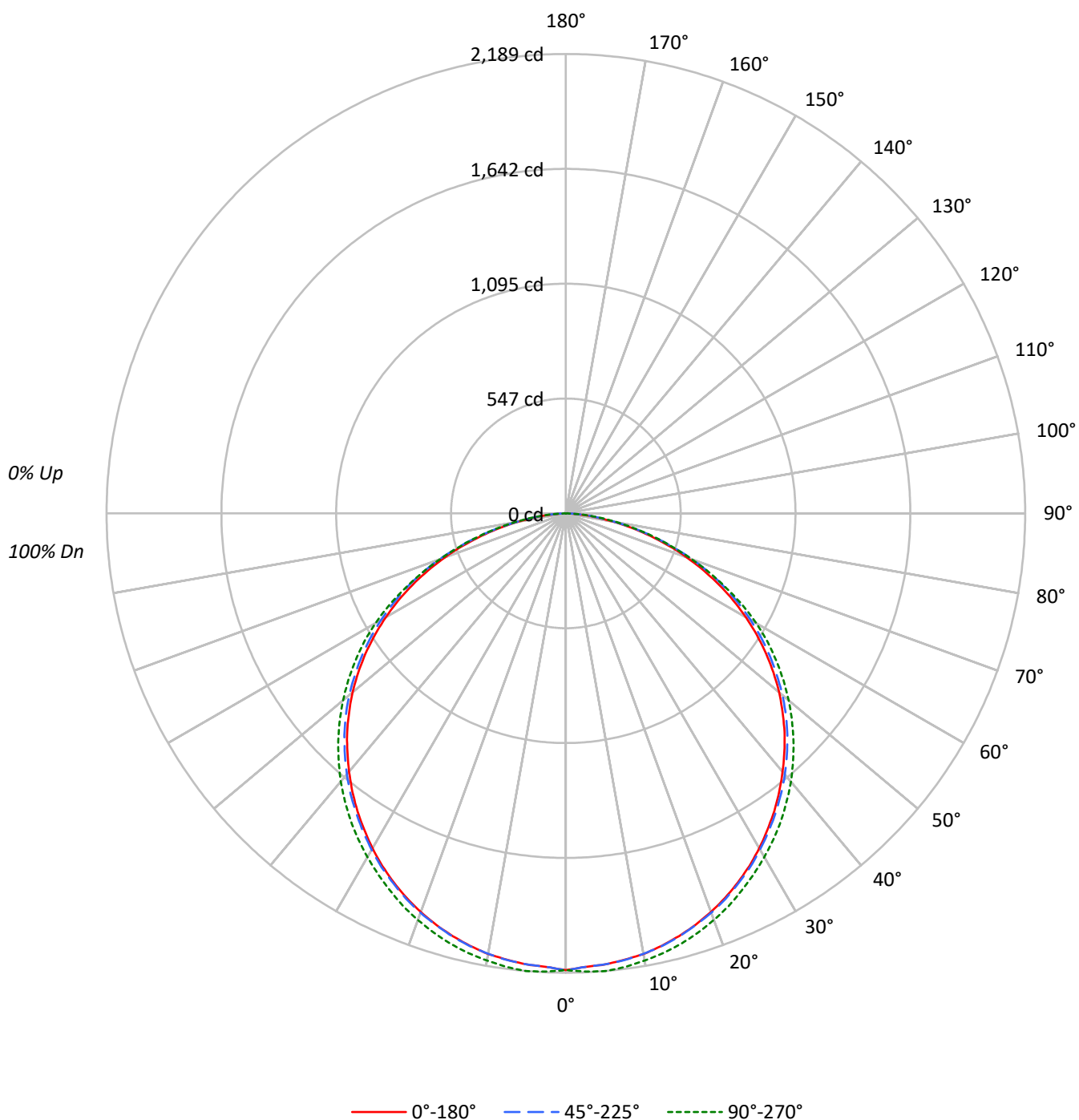
Lumens per Lamp: N/A
Luminaire Lumens: 6423.0 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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°	7334	7334	7334
5°	7299	7295	7405
10°	7296	7292	7403
15°	7274	7280	7407
20°	7251	7265	7395
25°	7215	7233	7372
30°	7171	7202	7359
35°	7125	7169	7355
40°	7069	7143	7341
45°	7025	7115	7311
50°	6955	7063	7265
55°	6847	6974	7194
60°	6681	6854	7065
65°	6430	6673	6744
70°	6046	6327	6289
75°	5429	5659	5698
80°	4484	4713	4962
85°	3004	3499	3688

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7311 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.3	3.2
10°-20°	593.0	9.2
20°-30°	903.0	14.1
30°-40°	1098.9	17.1
40°-50°	1158.5	18.0
50°-60°	1067.0	16.6
60°-70°	824.1	12.8
70°-80°	461.1	7.2
80°-90°	111.1	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°	1702.2	26.5
0°-40°	2801.1	43.6
0°-60°	5026.6	78.3
0°-90°	6423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6423.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2176	2176	2176	2176	2176	
5°	2158	2188	2157	2160	2189	205
15°	2085	2114	2087	2099	2123	589
25°	1940	1968	1945	1958	1983	894
35°	1732	1758	1743	1764	1788	1083
45°	1474	1495	1493	1516	1534	1136
55°	1166	1185	1187	1212	1224	1040
65°	806	830	837	845	846	797
75°	417	443	435	434	438	442
85°	78	86	90	101	95	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2176.5	2176.5	2176.5	2176.5	2176.5
2.5°	2162.7	2194.2	2162.7	2167.7	2185.4
5°	2157.8	2188.3	2156.8	2159.8	2189.3
7.5°	2145.0	2176.5	2147.0	2150.9	2179.5
10°	2132.3	2160.8	2131.3	2136.2	2163.7
12.5°	2110.6	2140.1	2112.6	2118.5	2146.0
15°	2085.1	2113.6	2087.0	2098.8	2123.4
17.5°	2055.5	2083.1	2057.5	2071.3	2094.9
20°	2022.1	2048.7	2026.0	2035.9	2062.4
22.5°	1982.8	2010.3	1988.7	1997.5	2026.0
25°	1940.5	1968.0	1945.4	1958.2	1982.8
27.5°	1894.2	1920.8	1901.1	1916.9	1938.5
30°	1843.1	1868.7	1851.0	1869.7	1891.3
32.5°	1788.0	1815.6	1797.9	1819.5	1841.1
35°	1732.0	1757.5	1742.8	1764.4	1788.0
37.5°	1671.0	1695.6	1684.8	1707.4	1729.0
40°	1607.1	1634.6	1623.8	1647.4	1669.0
42.5°	1541.2	1567.7	1558.9	1583.5	1602.1
45°	1474.3	1494.9	1493.0	1515.6	1534.3
47.5°	1400.5	1426.1	1422.2	1444.8	1461.5
50°	1326.8	1347.4	1347.4	1369.1	1385.8
52.5°	1247.1	1267.8	1267.8	1293.3	1307.1
55°	1165.5	1185.1	1187.1	1211.7	1224.5
57.5°	1078.9	1099.6	1103.5	1128.1	1139.9
60°	991.4	1011.1	1017.0	1041.5	1048.4
62.5°	899.9	923.5	926.5	946.1	950.1
65°	806.5	830.1	837.0	844.8	845.8
67.5°	711.1	735.7	742.6	742.6	742.6
70°	613.7	636.3	642.2	638.3	638.3
72.5°	515.4	539.9	537.0	533.1	535.0
75°	417.0	442.6	434.7	433.7	437.7
77.5°	322.6	347.2	334.4	342.3	343.2
80°	231.1	249.8	242.9	254.7	255.7
82.5°	148.5	160.3	162.3	172.1	169.2
85°	77.7	85.6	90.5	101.3	95.4
87.5°	24.6	32.5	29.5	34.4	26.6
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	18.96	20.61	19.32	20.93	21.24	19.17	20.83	19.54	21.14	21.46
	3H	20.78	22.28	21.16	22.60	22.96	20.97	22.47	21.35	22.80	23.16
	4H	21.43	22.84	21.82	23.18	23.56	21.61	23.02	22.01	23.37	23.75
	6H	21.85	23.16	22.26	23.53	23.92	22.06	23.37	22.48	23.74	24.13
	8H	21.96	23.21	22.39	23.60	24.00	22.20	23.45	22.62	23.84	24.23
	12H	22.02	23.22	22.44	23.60	24.03	22.27	23.47	22.70	23.85	24.28
4H	2H	19.64	21.05	20.03	21.40	21.77	19.81	21.22	20.20	21.57	21.94
	3H	21.68	22.86	22.09	23.26	23.66	21.82	23.01	22.23	23.40	23.80
	4H	22.46	23.53	22.89	23.94	24.38	22.58	23.65	23.01	24.06	24.50
	6H	23.01	23.94	23.46	24.38	24.84	23.15	24.09	23.61	24.53	24.98
	8H	23.15	24.03	23.61	24.47	24.94	23.33	24.20	23.79	24.65	25.11
	12H	23.24	24.03	23.72	24.50	24.97	23.44	24.23	23.92	24.70	25.17
8H	4H	22.77	23.64	23.22	24.08	24.55	22.87	23.75	23.33	24.19	24.66
	6H	23.42	24.15	23.92	24.64	25.12	23.55	24.28	24.05	24.77	25.25
	8H	23.63	24.28	24.14	24.79	25.27	23.79	24.45	24.30	24.95	25.44
	12H	23.76	24.34	24.27	24.83	25.39	23.97	24.55	24.48	25.04	25.60
12H	4H	22.80	23.58	23.28	24.06	24.53	22.90	23.69	23.38	24.16	24.63
	6H	23.47	24.12	23.98	24.63	25.12	23.60	24.25	24.10	24.76	25.24
	8H	23.73	24.30	24.23	24.79	25.35	23.89	24.46	24.39	24.95	25.51

END OF REPORT