

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: P1585873

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585873
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-L830
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 7200 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

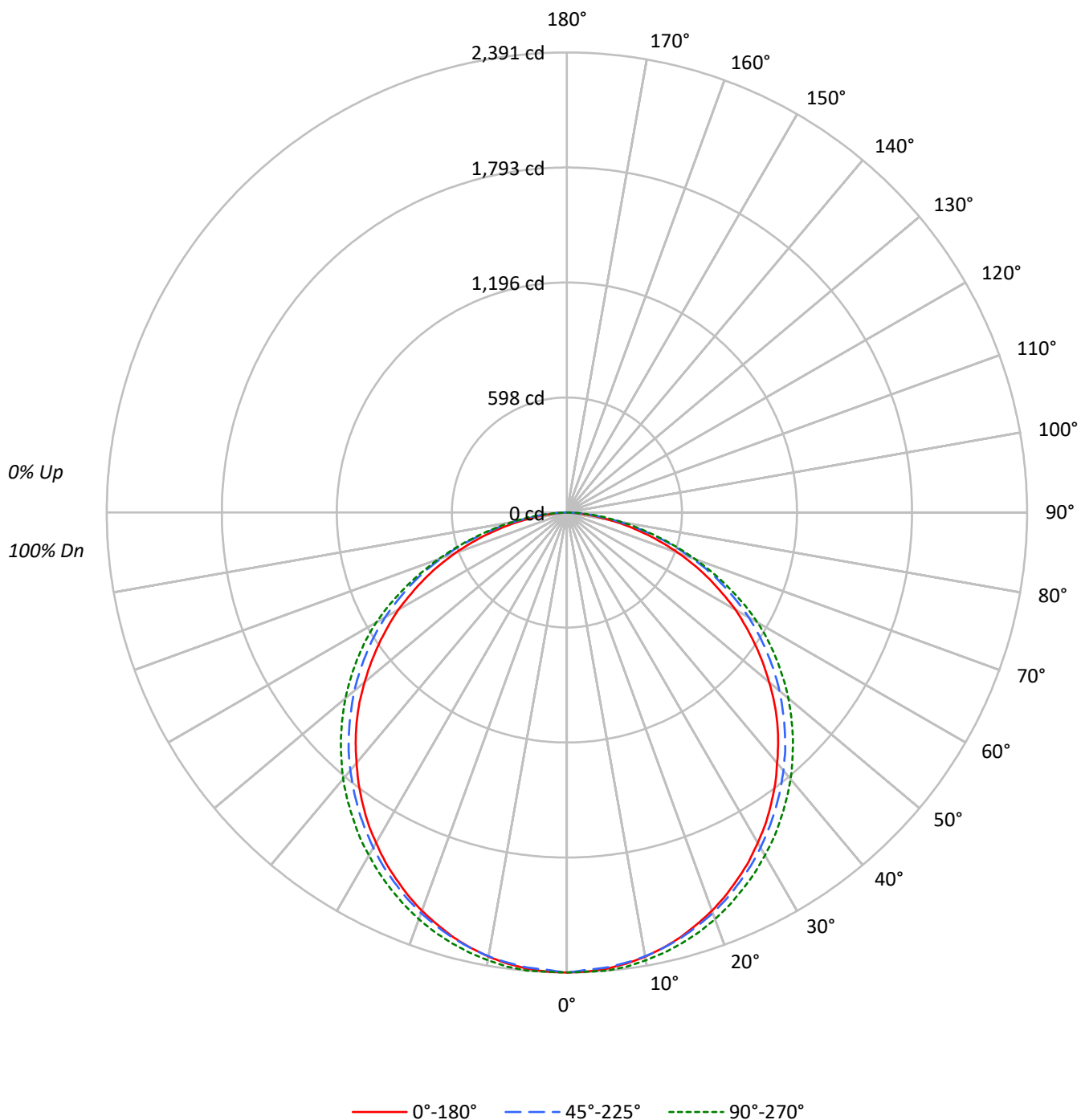
Lumens per Lamp: N/A
Luminaire Lumens: 6907.0 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	8056	8056	8056
5°	8050	8030	8083
10°	8020	8014	8085
15°	7969	7986	8080
20°	7899	7945	8066
25°	7812	7886	8034
30°	7715	7827	8005
35°	7608	7764	7976
40°	7475	7698	7956
45°	7368	7628	7913
50°	7192	7557	7875
55°	7008	7458	7814
60°	6819	7348	7711
65°	6512	7155	7417
70°	6078	6832	6999
75°	5415	6192	6373
80°	4420	5367	5637
85°	2923	4268	4578

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7913 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.4	3.3
10°-20°	648.6	9.4
20°-30°	982.0	14.2
30°-40°	1185.4	17.2
40°-50°	1237.9	17.9
50°-60°	1132.4	16.4
60°-70°	875.5	12.7
70°-80°	495.6	7.2
80°-90°	123.1	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°	1857.1	26.9
0°-40°	3042.5	44.0
0°-60°	5412.8	78.4
0°-90°	6907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2391	2391	2391	2391	2391	
5°	2380	2397	2374	2376	2390	226
15°	2284	2304	2289	2300	2316	644
25°	2101	2128	2121	2141	2161	968
35°	1850	1875	1887	1919	1939	1157
45°	1546	1576	1601	1642	1660	1191
55°	1193	1229	1270	1309	1330	1067
65°	817	851	897	924	930	806
75°	416	452	476	488	490	441
85°	76	88	110	115	118	98
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2390.8	2390.8	2390.8	2390.8	2390.8
2.5°	2387.8	2404.7	2378.9	2383.8	2388.8
5°	2379.9	2396.8	2373.9	2375.9	2389.8
7.5°	2364.9	2383.8	2360.0	2363.9	2380.9
10°	2344.0	2362.9	2342.1	2346.0	2362.9
12.5°	2317.2	2336.1	2318.2	2324.1	2343.0
15°	2284.3	2304.2	2289.3	2300.3	2316.2
17.5°	2244.6	2269.4	2253.5	2270.4	2286.3
20°	2202.8	2227.6	2215.7	2230.6	2249.5
22.5°	2155.0	2179.9	2170.9	2186.8	2207.7
25°	2101.3	2128.1	2121.2	2141.1	2161.0
27.5°	2045.6	2071.4	2069.4	2091.3	2112.2
30°	1982.9	2010.7	2011.7	2037.6	2057.5
32.5°	1920.2	1945.1	1951.0	1979.9	2002.8
35°	1849.6	1875.4	1887.4	1919.2	1939.1
37.5°	1777.9	1806.8	1819.7	1854.5	1875.4
40°	1699.3	1732.2	1750.1	1786.9	1808.8
42.5°	1624.7	1654.6	1678.4	1715.3	1735.1
45°	1546.1	1576.0	1600.8	1641.6	1660.5
47.5°	1461.5	1494.4	1521.2	1561.0	1581.9
50°	1372.0	1407.8	1441.6	1480.4	1502.3
52.5°	1283.5	1318.3	1357.1	1394.9	1416.8
55°	1192.9	1228.7	1269.5	1309.3	1330.2
57.5°	1101.4	1137.2	1182.0	1217.8	1239.7
60°	1011.8	1044.7	1090.4	1126.3	1144.2
62.5°	910.4	948.2	994.9	1030.7	1040.7
65°	816.8	850.7	897.4	924.3	930.3
67.5°	717.3	751.2	797.9	812.9	821.8
70°	616.9	652.7	693.5	703.4	710.4
72.5°	515.4	552.2	584.0	594.0	599.9
75°	415.9	451.7	475.6	487.5	489.5
77.5°	319.4	352.2	374.1	388.0	388.0
80°	227.8	252.7	276.6	291.5	290.5
82.5°	145.3	164.2	189.0	200.0	206.9
85°	75.6	87.6	110.4	115.4	118.4
87.5°	23.9	30.8	39.8	32.8	31.8
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	18.93	20.58	19.29	20.89	21.21	19.47	21.12	19.83	21.43	21.75
	3H	20.70	22.20	21.08	22.52	22.88	21.33	22.82	21.71	23.15	23.51
	4H	21.33	22.73	21.72	23.08	23.46	22.00	23.41	22.40	23.76	24.13
	6H	21.73	23.04	22.14	23.40	23.79	22.49	23.79	22.90	24.16	24.55
	8H	21.83	23.08	22.26	23.47	23.87	22.64	23.89	23.07	24.28	24.68
	12H	21.88	23.07	22.31	23.46	23.88	22.74	23.94	23.17	24.32	24.75
4H	2H	19.67	21.08	20.07	21.42	21.80	20.09	21.50	20.49	21.84	22.22
	3H	21.66	22.84	22.07	23.24	23.64	22.17	23.35	22.58	23.75	24.15
	4H	22.41	23.48	22.84	23.89	24.33	22.97	24.04	23.40	24.45	24.89
	6H	22.93	23.86	23.38	24.30	24.76	23.58	24.52	24.04	24.96	25.41
	8H	23.06	23.94	23.52	24.38	24.85	23.79	24.66	24.25	25.10	25.57
	12H	23.14	23.93	23.62	24.40	24.87	23.93	24.71	24.41	25.19	25.66
8H	4H	22.76	23.64	23.22	24.08	24.55	23.26	24.13	23.72	24.58	25.04
	6H	23.40	24.12	23.89	24.61	25.09	23.99	24.72	24.48	25.21	25.68
	8H	23.59	24.24	24.10	24.75	25.23	24.26	24.92	24.77	25.42	25.91
	12H	23.72	24.29	24.22	24.78	25.34	24.47	25.05	24.98	25.54	26.10
12H	4H	22.81	23.59	23.29	24.07	24.54	23.28	24.07	23.76	24.54	25.01
	6H	23.46	24.12	23.97	24.62	25.11	24.03	24.69	24.54	25.19	25.68
	8H	23.71	24.29	24.22	24.78	25.34	24.36	24.94	24.87	25.43	25.99