

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: P1585813

Luminaire Tested: 14CZSP-SB-60VHE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585813
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-60VHE-L830
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 6200 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

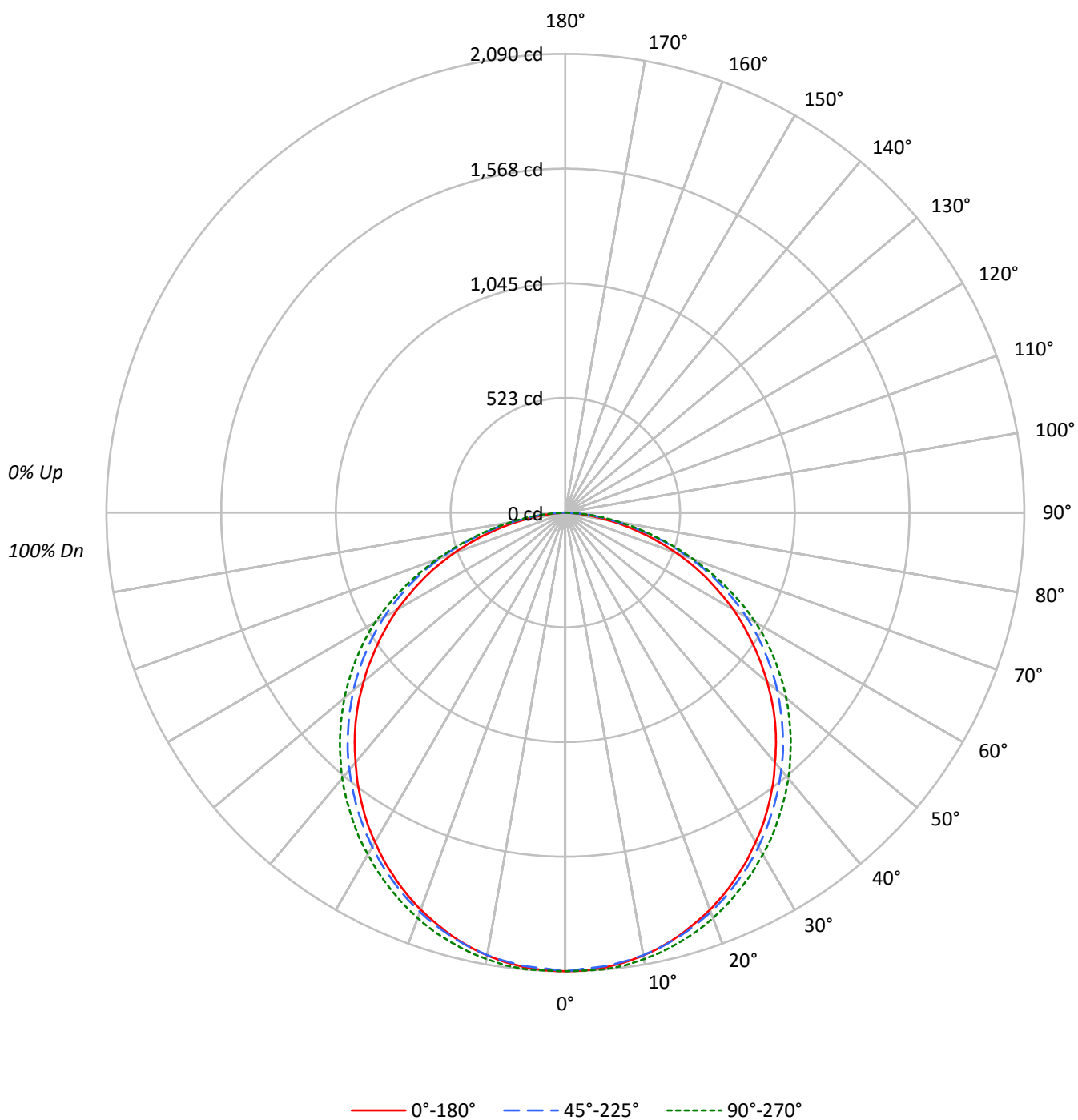
Lumens per Lamp: N/A
Luminaire Lumens: 6038.0 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 43.9
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	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7042	7042	7042
5°	7037	7019	7066
10°	7011	7005	7068
15°	6966	6981	7063
20°	6905	6945	7052
25°	6829	6894	7024
30°	6744	6842	6998
35°	6651	6787	6973
40°	6534	6730	6955
45°	6441	6669	6917
50°	6287	6607	6884
55°	6126	6520	6832
60°	5961	6424	6741
65°	5694	6255	6484
70°	5312	5972	6118
75°	4734	5412	5571
80°	3865	4692	4929
85°	2556	3731	4001

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6917 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	3.3
10°-20°	567.0	9.4
20°-30°	858.5	14.2
30°-40°	1036.2	17.2
40°-50°	1082.1	17.9
50°-60°	989.9	16.4
60°-70°	765.3	12.7
70°-80°	433.3	7.2
80°-90°	107.6	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°	1623.5	26.9
0°-40°	2659.7	44.0
0°-60°	4731.8	78.4
0°-90°	6038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2090	2090	2090	2090	2090	
5°	2080	2095	2075	2077	2089	198
15°	1997	2014	2001	2011	2025	563
25°	1837	1860	1854	1872	1889	847
35°	1617	1640	1650	1678	1695	1011
45°	1352	1378	1399	1435	1452	1041
55°	1043	1074	1110	1145	1163	932
65°	714	744	784	808	813	705
75°	364	395	416	426	428	385
85°	66	76	96	101	104	85
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2090.0	2090.0	2090.0	2090.0	2090.0
2.5°	2087.4	2102.2	2079.6	2083.9	2088.3
5°	2080.4	2095.2	2075.2	2077.0	2089.1
7.5°	2067.4	2083.9	2063.0	2066.5	2081.3
10°	2049.1	2065.7	2047.4	2050.9	2065.7
12.5°	2025.6	2042.2	2026.5	2031.7	2048.3
15°	1996.9	2014.3	2001.3	2010.9	2024.8
17.5°	1962.2	1983.9	1970.0	1984.8	1998.7
20°	1925.6	1947.4	1936.9	1950.0	1966.5
22.5°	1883.9	1905.6	1897.8	1911.7	1930.0
25°	1836.9	1860.4	1854.3	1871.7	1889.1
27.5°	1788.2	1810.8	1809.1	1828.2	1846.5
30°	1733.4	1757.8	1758.6	1781.2	1798.6
32.5°	1678.6	1700.4	1705.6	1730.8	1750.8
35°	1616.9	1639.5	1649.9	1677.7	1695.1
37.5°	1554.2	1579.5	1590.8	1621.2	1639.5
40°	1485.5	1514.2	1529.9	1562.1	1581.2
42.5°	1420.3	1446.4	1467.3	1499.4	1516.8
45°	1351.6	1377.7	1399.4	1435.1	1451.6
47.5°	1277.7	1306.4	1329.8	1364.6	1382.9
50°	1199.4	1230.7	1260.3	1294.2	1313.3
52.5°	1122.0	1152.4	1186.3	1219.4	1238.5
55°	1042.8	1074.1	1109.8	1144.6	1162.9
57.5°	962.8	994.1	1033.3	1064.6	1083.7
60°	884.5	913.2	953.2	984.6	1000.2
62.5°	795.8	828.9	869.7	901.1	909.8
65°	714.1	743.6	784.5	808.0	813.2
67.5°	627.1	656.7	697.5	710.6	718.4
70°	539.2	570.6	606.2	614.9	621.0
72.5°	450.5	482.7	510.5	519.2	524.5
75°	363.6	394.9	415.7	426.2	427.9
77.5°	279.2	307.9	327.0	339.2	339.2
80°	199.2	220.9	241.8	254.8	254.0
82.5°	127.0	143.5	165.3	174.8	180.9
85°	66.1	76.5	96.5	100.9	103.5
87.5°	20.9	27.0	34.8	28.7	27.8
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	18.46	20.11	18.83	20.43	20.74	19.00	20.65	19.37	20.97	21.28
	3H	20.23	21.73	20.61	22.05	22.41	20.86	22.36	21.24	22.68	23.04
	4H	20.86	22.27	21.26	22.61	22.99	21.54	22.94	21.93	23.29	23.67
	6H	21.26	22.57	21.67	22.93	23.32	22.02	23.33	22.43	23.69	24.08
	8H	21.36	22.61	21.79	23.00	23.40	22.18	23.42	22.60	23.81	24.21
	12H	21.41	22.61	21.84	22.99	23.42	22.27	23.47	22.70	23.85	24.28
4H	2H	19.20	20.61	19.60	20.96	21.33	19.62	21.03	20.02	21.38	21.75
	3H	21.19	22.37	21.60	22.77	23.17	21.70	22.88	22.11	23.28	23.68
	4H	21.94	23.01	22.37	23.42	23.86	22.50	23.57	22.93	23.98	24.42
	6H	22.46	23.40	22.91	23.84	24.29	23.12	24.05	23.57	24.49	24.95
	8H	22.60	23.47	23.06	23.91	24.38	23.32	24.19	23.78	24.64	25.10
	12H	22.67	23.46	23.15	23.93	24.40	23.46	24.25	23.94	24.72	25.19
8H	4H	22.30	23.17	22.76	23.61	24.08	22.79	23.67	23.25	24.11	24.57
	6H	22.93	23.66	23.42	24.14	24.62	23.52	24.25	24.02	24.74	25.21
	8H	23.12	23.78	23.63	24.28	24.77	23.80	24.45	24.31	24.96	25.44
	12H	23.25	23.83	23.76	24.32	24.88	24.00	24.58	24.51	25.07	25.63
12H	4H	22.34	23.13	22.82	23.60	24.07	22.82	23.60	23.30	24.08	24.55
	6H	22.99	23.65	23.50	24.15	24.64	23.57	24.22	24.07	24.73	25.21
	8H	23.24	23.82	23.75	24.31	24.87	23.89	24.47	24.40	24.96	25.52