

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: P1589950

Luminaire Tested: 24CZSP-SB-65-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-65-L950-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 6000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

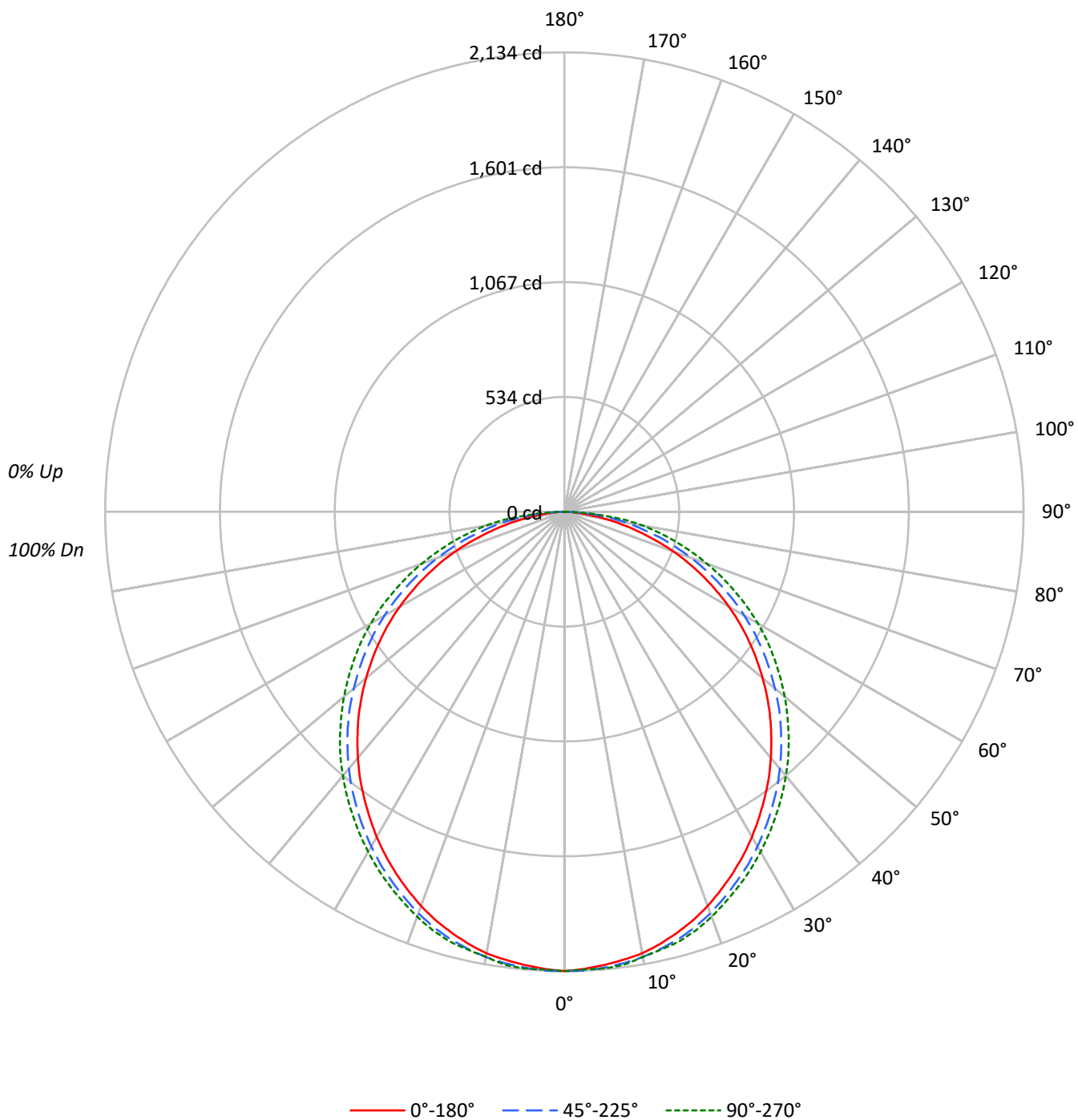
Lumens per Lamp: N/A
Luminaire Lumens: 6207.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 47.9
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: 28.75 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	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	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°	3268	3268	3268
5°	3250	3268	3274
10°	3240	3267	3264
15°	3210	3256	3275
20°	3175	3234	3262
25°	3130	3202	3243
30°	3084	3174	3226
35°	3033	3143	3211
40°	2985	3116	3201
45°	2930	3083	3193
50°	2867	3045	3185
55°	2795	3006	3181
60°	2708	2961	3182
65°	2584	2899	3165
70°	2416	2811	3157
75°	2142	2703	3168
80°	1743	2568	3263
85°	1126	2371	2815

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3306 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.9	3.3
10°-20°	578.2	9.3
20°-30°	871.8	14.0
30°-40°	1049.0	16.9
40°-50°	1094.2	17.6
50°-60°	1003.0	16.2
60°-70°	787.6	12.7
70°-80°	479.3	7.7
80°-90°	141.8	2.3
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°	1652.0	26.6
0°-40°	2701.0	43.5
0°-60°	4798.2	77.3
0°-90°	6207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6207.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2134	2134	2134	2134	2134	
5°	2114	2127	2126	2123	2130	201
15°	2024	2044	2054	2056	2066	571
25°	1852	1877	1895	1907	1919	853
35°	1622	1648	1681	1705	1717	1015
45°	1353	1381	1423	1457	1474	1043
55°	1047	1074	1126	1171	1191	935
65°	713	740	800	853	873	705
75°	362	395	457	511	535	384
85°	64	91	135	151	160	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2133.8	2133.8	2133.8	2133.8	2133.8
2.5°	2125.7	2136.4	2133.8	2124.4	2128.4
5°	2113.7	2127.1	2125.7	2123.1	2129.7
7.5°	2099.0	2113.7	2115.1	2115.1	2123.1
10°	2083.0	2097.7	2100.4	2096.4	2099.0
12.5°	2056.3	2073.7	2079.0	2079.0	2083.0
15°	2024.3	2044.3	2053.6	2056.3	2065.7
17.5°	1989.5	2010.9	2022.9	2029.6	2037.6
20°	1948.1	1970.8	1984.2	1992.2	2001.6
22.5°	1901.4	1926.8	1941.5	1949.5	1960.2
25°	1852.0	1877.4	1894.7	1906.8	1918.8
27.5°	1799.9	1824.0	1848.0	1862.7	1873.4
30°	1743.9	1769.2	1794.6	1813.3	1824.0
32.5°	1683.8	1710.5	1739.8	1759.9	1771.9
35°	1622.3	1647.7	1681.1	1705.1	1717.1
37.5°	1559.6	1586.3	1621.0	1646.4	1661.1
40°	1492.8	1520.9	1558.3	1586.3	1601.0
42.5°	1423.4	1450.1	1491.5	1523.5	1540.9
45°	1352.6	1380.7	1423.4	1456.8	1474.1
47.5°	1279.2	1305.9	1352.6	1391.3	1406.0
50°	1203.1	1228.4	1277.8	1319.2	1336.6
52.5°	1125.6	1152.3	1201.7	1245.8	1264.5
55°	1046.8	1073.6	1125.6	1171.0	1191.1
57.5°	966.7	993.4	1046.8	1093.6	1117.6
60°	883.9	910.6	966.7	1014.8	1038.8
62.5°	798.5	826.5	883.9	933.3	958.7
65°	713.0	739.7	799.8	853.2	873.3
67.5°	627.6	654.3	713.0	766.4	790.5
70°	539.4	570.2	627.6	683.7	705.0
72.5°	447.3	482.0	539.4	598.2	619.6
75°	361.9	395.2	456.7	511.4	535.4
77.5°	277.7	313.8	371.2	427.3	451.3
80°	197.6	232.3	291.1	344.5	369.9
82.5°	125.5	156.2	215.0	263.0	281.7
85°	64.1	90.8	134.9	150.9	160.2
87.5°	18.7	32.0	48.1	60.1	66.8
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	15.6	17.3	16.0	17.6	17.9	16.3	18.0	16.7	18.3	18.6
	3H	17.4	18.9	17.8	19.2	19.6	18.4	19.9	18.8	20.3	20.6
	4H	18.0	19.4	18.4	19.8	20.1	19.3	20.7	19.7	21.1	21.4
	6H	18.4	19.7	18.8	20.1	20.5	20.0	21.4	20.4	21.7	22.1
	8H	18.5	19.8	18.9	20.2	20.6	20.3	21.6	20.8	22.0	22.4
	12H	18.6	19.8	19.0	20.2	20.6	20.5	21.7	21.0	22.1	22.5
4H	2H	16.4	17.8	16.8	18.1	18.5	17.0	18.4	17.4	18.7	19.1
	3H	18.4	19.6	18.8	20.0	20.4	19.3	20.5	19.7	20.9	21.3
	4H	19.1	20.2	19.5	20.6	21.0	20.3	21.4	20.7	21.8	22.2
	6H	19.6	20.6	20.1	21.0	21.5	21.2	22.1	21.6	22.6	23.0
	8H	19.8	20.7	20.2	21.1	21.6	21.6	22.4	22.0	22.9	23.4
	12H	19.9	20.7	20.3	21.1	21.6	21.8	22.6	22.3	23.1	23.6
8H	4H	19.6	20.5	20.0	20.9	21.4	20.6	21.5	21.0	21.9	22.4
	6H	20.2	21.0	20.7	21.5	21.9	21.6	22.4	22.1	22.9	23.3
	8H	20.4	21.1	20.9	21.6	22.1	22.1	22.8	22.6	23.3	23.8
	12H	20.6	21.2	21.1	21.6	22.2	22.5	23.1	23.0	23.5	24.1
12H	4H	19.6	20.4	20.1	20.9	21.4	20.6	21.4	21.1	21.9	22.4
	6H	20.4	21.0	20.9	21.5	22.0	21.7	22.4	22.2	22.8	23.4
	8H	20.6	21.2	21.1	21.7	22.3	22.2	22.8	22.7	23.3	23.9

(END OF REPORT)