

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: P1589962

Luminaire Tested: 24CZSP-SB-65VHE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589962
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-65VHE-L930-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 7000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

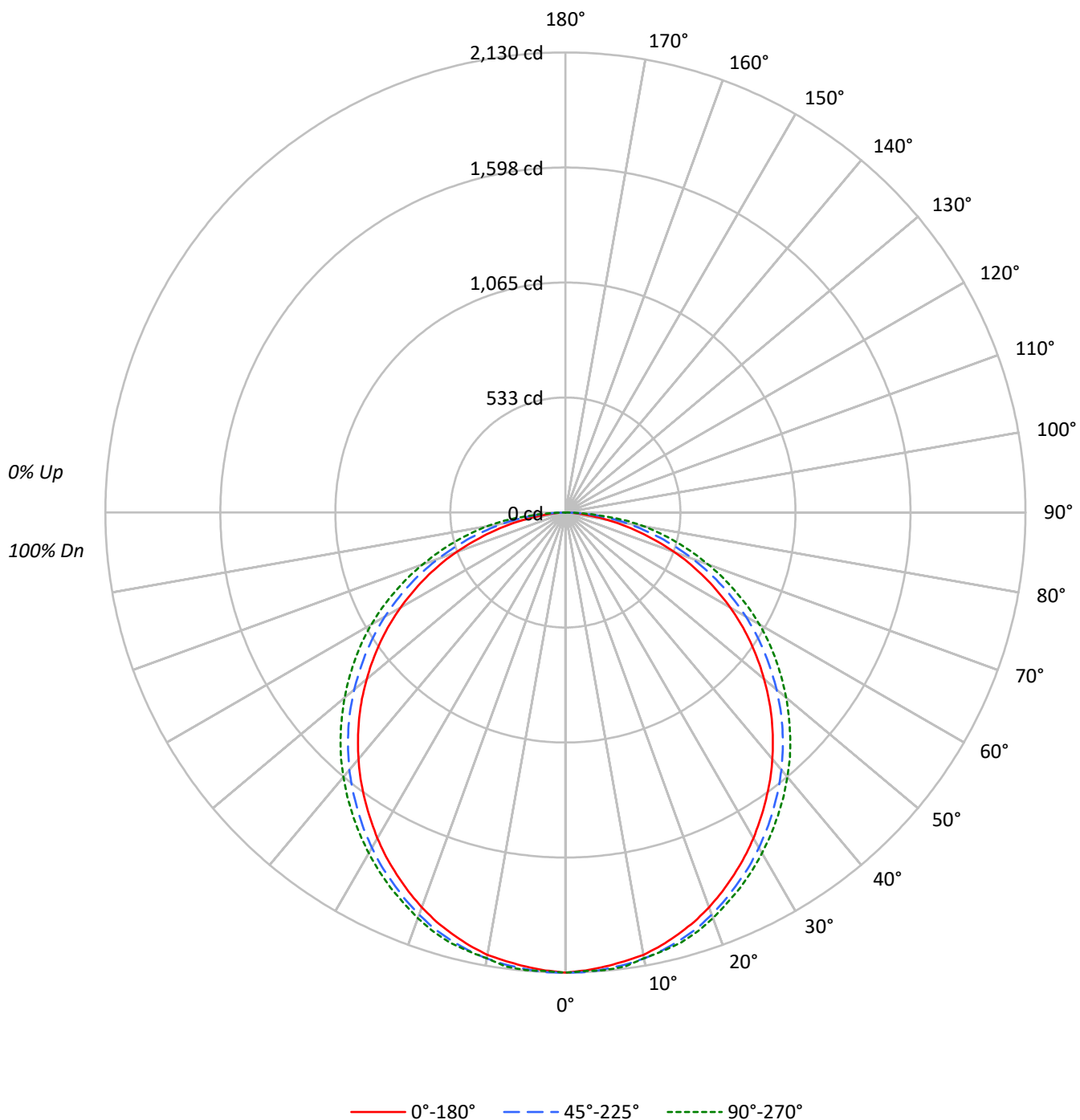
Lumens per Lamp: N/A
Luminaire Lumens: 6197.0 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 50.1
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°	3263	3263	3263
5°	3245	3263	3269
10°	3234	3261	3259
15°	3205	3251	3270
20°	3170	3229	3257
25°	3125	3197	3237
30°	3079	3169	3221
35°	3028	3138	3206
40°	2980	3110	3196
45°	2925	3078	3188
50°	2862	3040	3180
55°	2791	3001	3175
60°	2703	2957	3177
65°	2580	2894	3160
70°	2412	2806	3152
75°	2138	2698	3164
80°	1740	2563	3257
85°	1125	2365	2812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3301 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.6	3.3
10°-20°	577.3	9.3
20°-30°	870.4	14.0
30°-40°	1047.3	16.9
40°-50°	1092.5	17.6
50°-60°	1001.4	16.2
60°-70°	786.3	12.7
70°-80°	478.6	7.7
80°-90°	141.6	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°	1649.3	26.6
0°-40°	2696.7	43.5
0°-60°	4790.5	77.3
0°-90°	6197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2130	2130	2130	2130	2130	
5°	2110	2124	2122	2120	2126	200
15°	2021	2041	2050	2053	2062	570
25°	1849	1874	1892	1904	1916	852
35°	1620	1645	1678	1702	1714	1014
45°	1350	1378	1421	1454	1472	1041
55°	1045	1072	1124	1169	1189	934
65°	712	738	798	852	872	704
75°	361	395	456	511	535	383
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°	2130.3	2130.3	2130.3	2130.3	2130.3
2.5°	2122.3	2133.0	2130.3	2121.0	2125.0
5°	2110.3	2123.6	2122.3	2119.6	2126.3
7.5°	2095.7	2110.3	2111.7	2111.7	2119.6
10°	2079.7	2094.3	2097.0	2093.0	2095.7
12.5°	2053.0	2070.3	2075.7	2075.7	2079.7
15°	2021.0	2041.0	2050.3	2053.0	2062.3
17.5°	1986.3	2007.7	2019.7	2026.3	2034.3
20°	1945.0	1967.7	1981.0	1989.0	1998.3
22.5°	1898.4	1923.7	1938.3	1946.3	1957.0
25°	1849.0	1874.4	1891.7	1903.7	1915.7
27.5°	1797.0	1821.0	1845.0	1859.7	1870.4
30°	1741.0	1766.4	1791.7	1810.4	1821.0
32.5°	1681.1	1707.7	1737.0	1757.0	1769.0
35°	1619.7	1645.1	1678.4	1702.4	1714.4
37.5°	1557.1	1583.7	1618.4	1643.7	1658.4
40°	1490.4	1518.4	1555.7	1583.7	1598.4
42.5°	1421.1	1447.8	1489.1	1521.1	1538.4
45°	1350.4	1378.4	1421.1	1454.4	1471.8
47.5°	1277.1	1303.8	1350.4	1389.1	1403.8
50°	1201.1	1226.5	1275.8	1317.1	1334.4
52.5°	1123.8	1150.5	1199.8	1243.8	1262.5
55°	1045.2	1071.8	1123.8	1169.1	1189.1
57.5°	965.2	991.8	1045.2	1091.8	1115.8
60°	882.5	909.2	965.2	1013.2	1037.2
62.5°	797.2	825.2	882.5	931.8	957.2
65°	711.9	738.5	798.5	851.9	871.9
67.5°	626.6	653.2	711.9	765.2	789.2
70°	538.6	569.2	626.6	682.6	703.9
72.5°	446.6	481.3	538.6	597.2	618.6
75°	361.3	394.6	455.9	510.6	534.6
77.5°	277.3	313.3	370.6	426.6	450.6
80°	197.3	232.0	290.6	343.9	369.3
82.5°	125.3	156.0	214.6	262.6	281.3
85°	64.0	90.7	134.6	150.6	160.0
87.5°	18.7	32.0	48.0	60.0	66.7
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	20.1	20.6	20.5	21.7	21.0	22.1	22.5
4H	2H	16.4	17.8	16.8	18.1	18.5	16.9	18.4	17.3	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	23.3
	12H	19.9	20.7	20.3	21.1	21.6	21.8	22.6	22.3	23.1	23.5
8H	4H	19.6	20.4	20.0	20.9	21.4	20.6	21.5	21.0	21.9	22.4
	6H	20.2	21.0	20.7	21.4	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	23.0	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	22.3
	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)