

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: P1589955

Luminaire Tested: 24CZSP-SB-65VHE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-65VHE-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 7000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

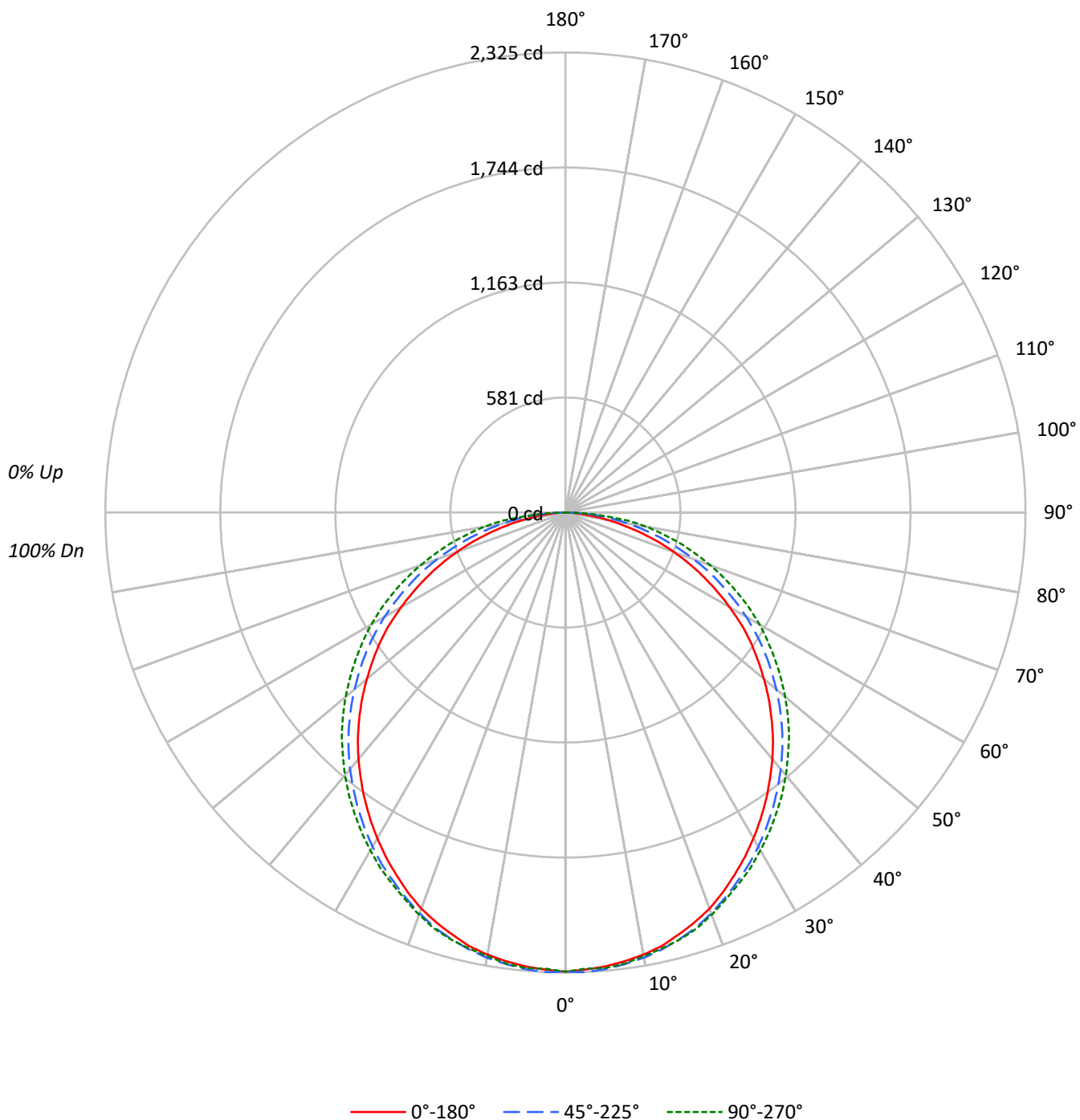
Lumens per Lamp: N/A
Luminaire Lumens: 6772.0 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	93	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	68
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		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	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3554	3554	3554
5°	3541	3561	3552
10°	3529	3553	3540
15°	3502	3539	3543
20°	3472	3514	3525
25°	3415	3476	3500
30°	3361	3447	3485
35°	3307	3414	3473
40°	3253	3384	3465
45°	3191	3353	3462
50°	3121	3316	3453
55°	3050	3280	3452
60°	2937	3231	3473
65°	2800	3169	3475
70°	2612	3081	3485
75°	2324	2969	3545
80°	1909	2845	3679
85°	1260	2669	3325

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3768 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.5	3.2
10°-20°	628.3	9.3
20°-30°	947.0	14.0
30°-40°	1140.4	16.8
40°-50°	1191.5	17.6
50°-60°	1094.6	16.2
60°-70°	862.0	12.7
70°-80°	528.5	7.8
80°-90°	160.3	2.4
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°	1794.8	26.5
0°-40°	2935.2	43.3
0°-60°	5221.3	77.1
0°-90°	6772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6772.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2320	2320	2320	2320	2320	
5°	2303	2308	2316	2313	2310	219
15°	2209	2217	2232	2240	2234	623
25°	2021	2034	2057	2078	2071	932
35°	1769	1792	1826	1859	1858	1106
45°	1473	1505	1548	1591	1598	1136
55°	1142	1175	1228	1281	1293	1019
65°	772	813	874	933	959	764
75°	393	439	502	562	599	417
85°	72	106	152	169	189	92
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2320.5	2320.5	2320.5	2320.5	2320.5
2.5°	2311.9	2317.6	2324.8	2313.3	2307.6
5°	2303.3	2307.6	2316.2	2313.3	2310.5
7.5°	2287.5	2290.4	2301.9	2301.9	2299.0
10°	2268.9	2274.6	2284.7	2283.2	2276.1
12.5°	2244.5	2248.8	2260.3	2260.3	2256.0
15°	2208.7	2217.3	2231.6	2240.2	2234.5
17.5°	2171.4	2180.0	2198.7	2207.3	2204.4
20°	2129.9	2137.0	2155.7	2168.6	2162.8
22.5°	2078.3	2086.9	2108.4	2122.7	2117.0
25°	2020.9	2033.8	2056.8	2078.3	2071.1
27.5°	1963.6	1977.9	2006.6	2028.1	2025.2
30°	1900.5	1919.2	1949.3	1976.5	1970.8
32.5°	1836.0	1857.5	1889.1	1917.7	1916.3
35°	1768.7	1791.6	1826.0	1859.0	1857.5
37.5°	1697.0	1724.2	1760.1	1795.9	1797.3
40°	1626.8	1652.6	1692.7	1731.4	1732.8
42.5°	1552.3	1579.5	1622.5	1662.6	1664.0
45°	1473.4	1505.0	1548.0	1590.9	1598.1
47.5°	1393.2	1426.1	1470.6	1516.4	1525.0
50°	1310.0	1344.4	1391.7	1440.5	1449.1
52.5°	1225.5	1261.3	1310.0	1358.8	1371.7
55°	1142.3	1175.3	1228.3	1281.4	1292.8
57.5°	1054.9	1085.0	1142.3	1198.2	1212.6
60°	958.9	996.1	1054.9	1110.8	1133.7
62.5°	865.7	905.8	966.0	1021.9	1047.7
65°	772.5	812.7	874.3	933.1	958.9
67.5°	677.9	719.5	785.4	841.3	870.0
70°	583.3	624.9	688.0	748.2	778.3
72.5°	488.8	533.2	594.8	656.4	686.5
75°	392.7	438.6	501.7	561.8	599.1
77.5°	302.4	346.9	409.9	471.6	503.1
80°	216.4	260.9	322.5	384.1	417.1
82.5°	137.6	179.2	239.4	291.0	321.1
85°	71.7	106.1	151.9	169.1	189.2
87.5°	21.5	41.6	58.8	65.9	81.7
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	15.9	17.6	16.3	17.9	18.2	16.7	18.3	17.0	18.6	19.0
	3H	17.7	19.2	18.1	19.5	19.9	18.8	20.3	19.1	20.6	21.0
	4H	18.3	19.7	18.7	20.1	20.5	19.6	21.1	20.0	21.4	21.8
	6H	18.7	20.0	19.1	20.4	20.8	20.4	21.7	20.8	22.1	22.5
	8H	18.8	20.1	19.2	20.5	20.9	20.7	22.0	21.1	22.4	22.8
	12H	18.9	20.1	19.3	20.5	20.9	20.9	22.1	21.4	22.5	23.0
4H	2H	16.7	18.1	17.1	18.5	18.8	17.3	18.7	17.7	19.0	19.4
	3H	18.7	19.9	19.1	20.3	20.7	19.6	20.8	20.0	21.2	21.6
	4H	19.4	20.5	19.9	20.9	21.4	20.6	21.7	21.1	22.1	22.6
	6H	20.0	20.9	20.4	21.4	21.8	21.6	22.5	22.0	23.0	23.4
	8H	20.1	21.0	20.6	21.5	21.9	21.9	22.8	22.4	23.3	23.7
	12H	20.2	21.0	20.7	21.5	22.0	22.2	23.0	22.7	23.5	24.0
8H	4H	19.9	20.8	20.3	21.2	21.7	20.9	21.8	21.4	22.3	22.7
	6H	20.6	21.3	21.1	21.8	22.3	22.0	22.8	22.5	23.2	23.7
	8H	20.8	21.5	21.3	22.0	22.4	22.5	23.2	23.0	23.7	24.2
	12H	20.9	21.5	21.4	22.0	22.6	22.9	23.5	23.4	24.0	24.5
12H	4H	20.0	20.8	20.5	21.3	21.7	21.0	21.8	21.4	22.2	22.7
	6H	20.7	21.4	21.2	21.8	22.4	22.1	22.8	22.6	23.2	23.8
	8H	21.0	21.6	21.5	22.1	22.6	22.6	23.2	23.1	23.7	24.3

(END OF REPORT)