

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: P1589954

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589954
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-L835-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 7000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

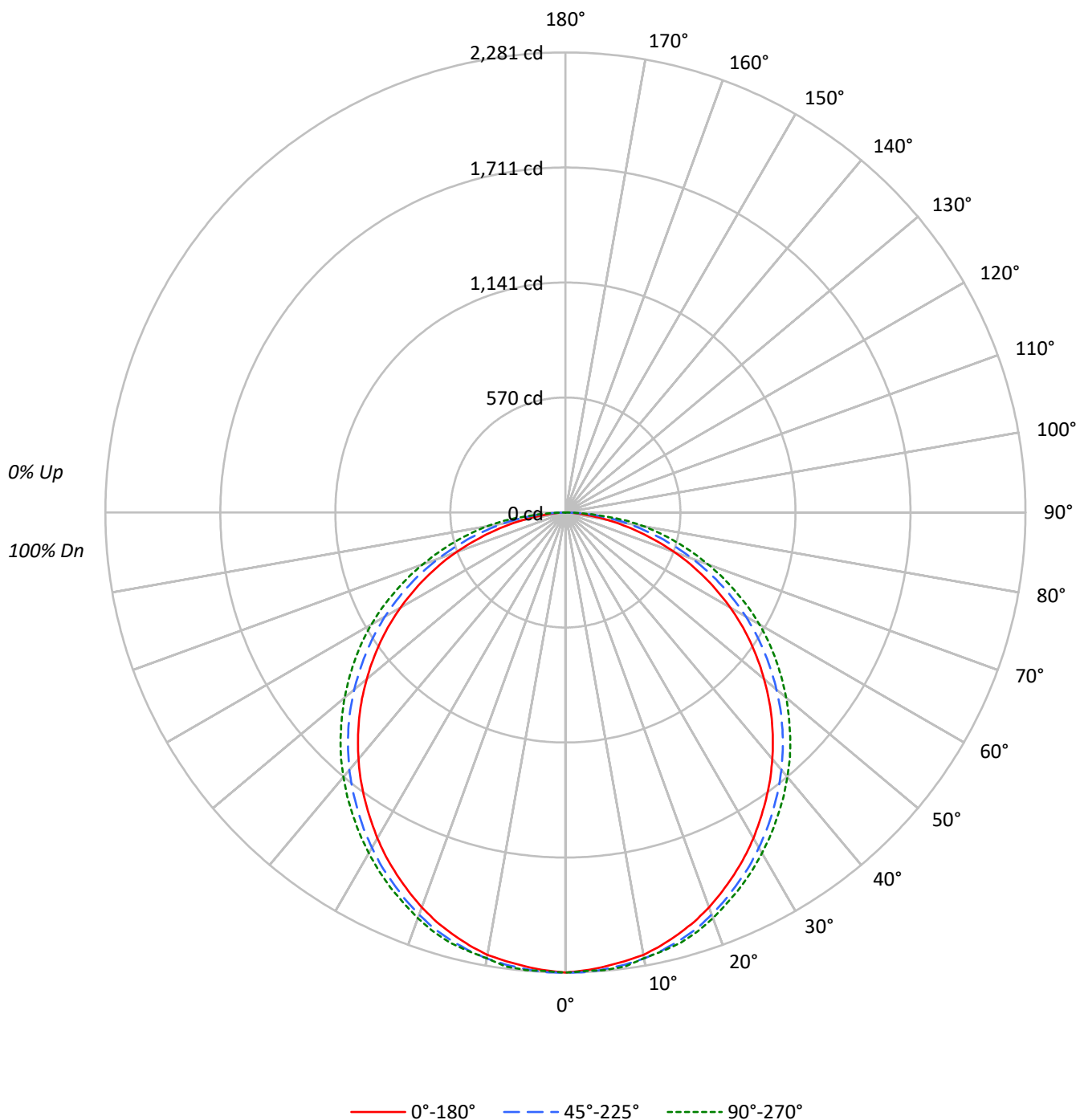
Lumens per Lamp: N/A
Luminaire Lumens: 6636.0 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3494	3494	3494
5°	3474	3494	3501
10°	3464	3492	3490
15°	3432	3481	3502
20°	3395	3458	3488
25°	3346	3423	3467
30°	3297	3393	3449
35°	3243	3361	3433
40°	3191	3331	3422
45°	3132	3296	3414
50°	3065	3255	3405
55°	2989	3213	3400
60°	2895	3166	3402
65°	2763	3099	3383
70°	2583	3004	3375
75°	2290	2889	3387
80°	1864	2745	3488
85°	1204	2534	3010

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3534 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.9	3.3
10°-20°	618.2	9.3
20°-30°	932.1	14.0
30°-40°	1121.5	16.9
40°-50°	1169.9	17.6
50°-60°	1072.3	16.2
60°-70°	842.0	12.7
70°-80°	512.5	7.7
80°-90°	151.6	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°	1766.2	26.6
0°-40°	2887.7	43.5
0°-60°	5129.9	77.3
0°-90°	6636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2281	2281	2281	2281	2281	
5°	2260	2274	2273	2270	2277	215
15°	2164	2186	2196	2198	2208	611
25°	1980	2007	2026	2038	2051	912
35°	1734	1762	1797	1823	1836	1085
45°	1446	1476	1522	1558	1576	1115
55°	1119	1148	1203	1252	1273	1000
65°	762	791	855	912	934	754
75°	387	423	488	547	572	410
85°	68	97	144	161	171	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2281.2	2281.2	2281.2	2281.2	2281.2
2.5°	2272.7	2284.1	2281.2	2271.2	2275.5
5°	2259.8	2274.1	2272.7	2269.8	2276.9
7.5°	2244.1	2259.8	2261.2	2261.2	2269.8
10°	2227.0	2242.7	2245.5	2241.3	2244.1
12.5°	2198.4	2217.0	2222.7	2222.7	2227.0
15°	2164.2	2185.6	2195.6	2198.4	2208.4
17.5°	2127.1	2149.9	2162.7	2169.9	2178.4
20°	2082.8	2107.1	2121.3	2129.9	2139.9
22.5°	2032.8	2060.0	2075.7	2084.2	2095.6
25°	1980.0	2007.1	2025.7	2038.5	2051.4
27.5°	1924.3	1950.0	1975.7	1991.4	2002.9
30°	1864.4	1891.5	1918.6	1938.6	1950.0
32.5°	1800.1	1828.7	1860.1	1881.5	1894.4
35°	1734.5	1761.6	1797.3	1823.0	1835.8
37.5°	1667.4	1695.9	1733.0	1760.2	1775.9
40°	1596.0	1626.0	1666.0	1695.9	1711.6
42.5°	1521.8	1550.3	1594.6	1628.8	1647.4
45°	1446.1	1476.1	1521.8	1557.5	1576.0
47.5°	1367.6	1396.1	1446.1	1487.5	1503.2
50°	1286.2	1313.3	1366.2	1410.4	1429.0
52.5°	1203.4	1232.0	1284.8	1331.9	1351.9
55°	1119.2	1147.8	1203.4	1252.0	1273.4
57.5°	1033.5	1062.1	1119.2	1169.2	1194.9
60°	945.0	973.6	1033.5	1084.9	1110.6
62.5°	853.7	883.7	945.0	997.9	1025.0
65°	762.3	790.9	855.1	912.2	933.6
67.5°	670.9	699.5	762.3	819.4	845.1
70°	576.7	609.6	670.9	730.9	753.7
72.5°	478.2	515.3	576.7	639.5	662.4
75°	386.9	422.6	488.2	546.8	572.4
77.5°	296.9	335.5	396.9	456.8	482.5
80°	211.3	248.4	311.2	368.3	395.4
82.5°	134.2	167.0	229.8	281.2	301.2
85°	68.5	97.1	144.2	161.3	171.3
87.5°	20.0	34.3	51.4	64.2	71.4
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	15.8	17.5	16.2	17.8	18.1	16.6	18.2	16.9	18.6	18.9
	3H	17.6	19.1	18.0	19.4	19.8	18.7	20.2	19.0	20.5	20.9
	4H	18.2	19.7	18.6	20.0	20.4	19.5	20.9	19.9	21.3	21.7
	6H	18.6	20.0	19.1	20.3	20.7	20.3	21.6	20.7	22.0	22.3
	8H	18.7	20.0	19.2	20.4	20.8	20.6	21.8	21.0	22.2	22.6
	12H	18.8	20.0	19.2	20.4	20.8	20.8	22.0	21.2	22.3	22.8
4H	2H	16.6	18.0	17.0	18.4	18.8	17.2	18.6	17.6	19.0	19.3
	3H	18.6	19.8	19.0	20.2	20.6	19.5	20.7	19.9	21.1	21.5
	4H	19.3	20.4	19.8	20.8	21.3	20.5	21.6	20.9	22.0	22.4
	6H	19.9	20.8	20.3	21.3	21.7	21.4	22.4	21.9	22.8	23.3
	8H	20.0	20.9	20.5	21.3	21.8	21.8	22.7	22.2	23.1	23.6
	12H	20.1	20.9	20.6	21.4	21.8	22.0	22.8	22.5	23.3	23.8
8H	4H	19.8	20.7	20.3	21.1	21.6	20.8	21.7	21.3	22.1	22.6
	6H	20.5	21.2	20.9	21.7	22.2	21.9	22.6	22.4	23.1	23.6
	8H	20.7	21.3	21.2	21.8	22.3	22.3	23.0	22.9	23.5	24.0
	12H	20.8	21.4	21.3	21.9	22.4	22.7	23.3	23.2	23.8	24.3
12H	4H	19.9	20.7	20.4	21.1	21.6	20.8	21.6	21.3	22.1	22.6
	6H	20.6	21.3	21.1	21.7	22.3	21.9	22.6	22.5	23.1	23.6
	8H	20.9	21.4	21.4	21.9	22.5	22.5	23.1	23.0	23.5	24.1

(END OF REPORT)