

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: P1589960

Luminaire Tested: 24CZSP-SB-65VHE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589960
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-L850-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 7000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

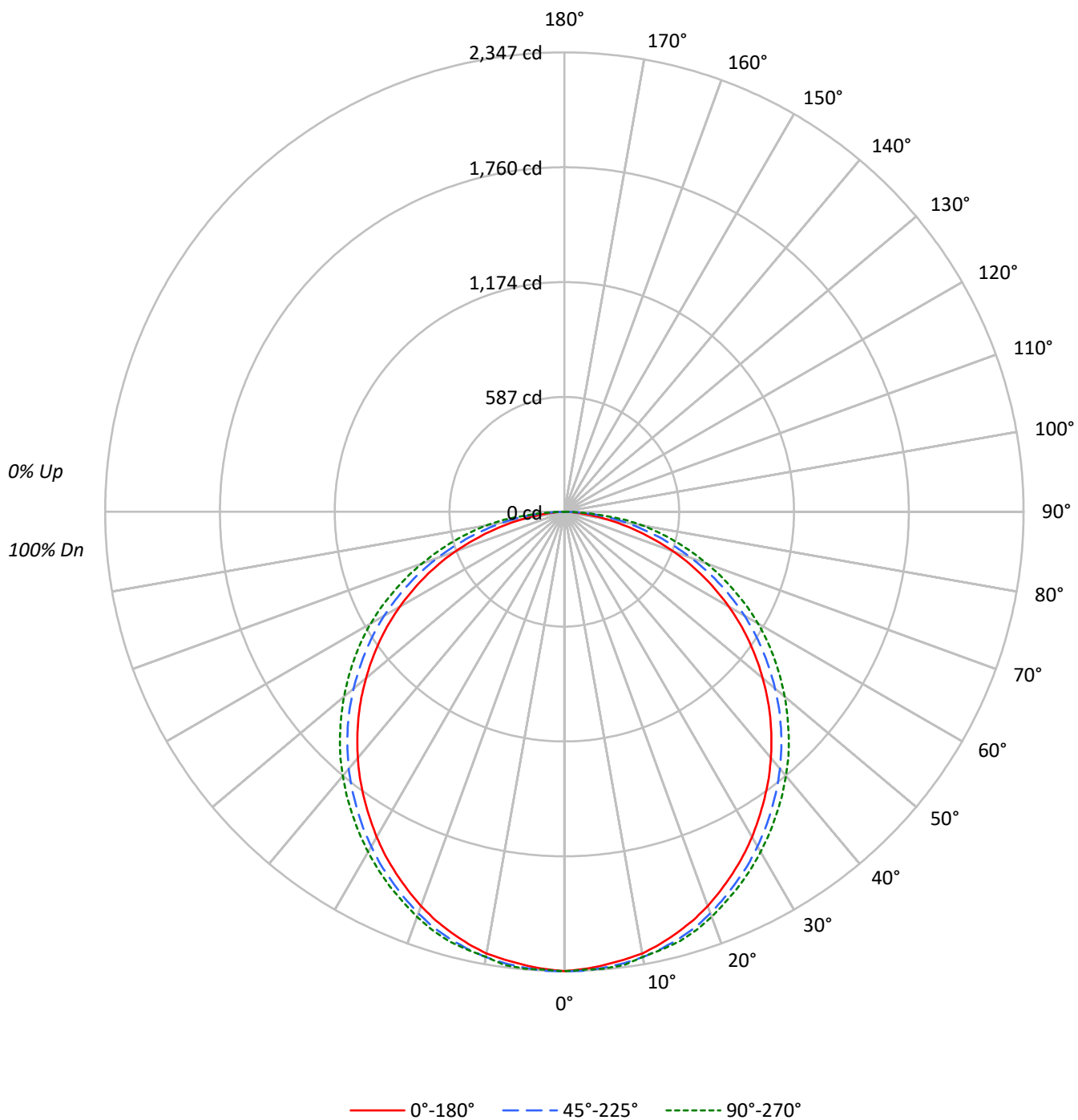
Lumens per Lamp: N/A
Luminaire Lumens: 6828.0 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3595	3595	3595
5°	3575	3595	3602
10°	3564	3593	3591
15°	3531	3582	3603
20°	3493	3558	3589
25°	3443	3522	3567
30°	3393	3491	3549
35°	3337	3458	3532
40°	3283	3427	3521
45°	3223	3392	3512
50°	3153	3349	3503
55°	3075	3306	3499
60°	2979	3258	3501
65°	2843	3189	3481
70°	2657	3092	3473
75°	2356	2972	3486
80°	1918	2824	3589
85°	1239	2608	3098

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3636 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.1	3.3
10°-20°	636.1	9.3
20°-30°	959.1	14.0
30°-40°	1154.0	16.9
40°-50°	1203.7	17.6
50°-60°	1103.3	16.2
60°-70°	866.4	12.7
70°-80°	527.3	7.7
80°-90°	156.0	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°	1817.3	26.6
0°-40°	2971.3	43.5
0°-60°	5278.3	77.3
0°-90°	6828.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6828.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2347	2347	2347	2347	2347	
5°	2325	2340	2338	2336	2343	221
15°	2227	2249	2259	2262	2272	628
25°	2037	2065	2084	2098	2111	939
35°	1785	1813	1849	1876	1889	1117
45°	1488	1519	1566	1602	1622	1147
55°	1152	1181	1238	1288	1310	1029
65°	784	814	880	939	961	776
75°	398	435	502	563	589	422
85°	70	100	148	166	176	92
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2347.2	2347.2	2347.2	2347.2	2347.2
2.5°	2338.4	2350.2	2347.2	2336.9	2341.4
5°	2325.2	2339.9	2338.4	2335.5	2342.8
7.5°	2309.0	2325.2	2326.7	2326.7	2335.5
10°	2291.4	2307.6	2310.5	2306.1	2309.0
12.5°	2262.0	2281.1	2287.0	2287.0	2291.4
15°	2226.8	2248.8	2259.1	2262.0	2272.3
17.5°	2188.6	2212.1	2225.3	2232.7	2241.5
20°	2143.1	2168.0	2182.7	2191.5	2201.8
22.5°	2091.6	2119.6	2135.7	2144.5	2156.3
25°	2037.3	2065.2	2084.3	2097.5	2110.7
27.5°	1980.0	2006.5	2032.9	2049.1	2060.8
30°	1918.3	1946.2	1974.1	1994.7	2006.5
32.5°	1852.2	1881.6	1913.9	1936.0	1949.2
35°	1784.7	1812.6	1849.3	1875.7	1888.9
37.5°	1715.6	1745.0	1783.2	1811.1	1827.3
40°	1642.2	1673.0	1714.2	1745.0	1761.2
42.5°	1565.8	1595.2	1640.7	1676.0	1695.1
45°	1487.9	1518.8	1565.8	1602.5	1621.6
47.5°	1407.2	1436.5	1487.9	1530.5	1546.7
50°	1323.4	1351.3	1405.7	1451.2	1470.3
52.5°	1238.2	1267.6	1322.0	1370.4	1391.0
55°	1151.6	1181.0	1238.2	1288.2	1310.2
57.5°	1063.5	1092.8	1151.6	1203.0	1229.4
60°	972.4	1001.8	1063.5	1116.3	1142.8
62.5°	878.4	909.2	972.4	1026.7	1054.6
65°	784.4	813.7	879.8	938.6	960.6
67.5°	690.4	719.7	784.4	843.1	869.6
70°	593.4	627.2	690.4	752.1	775.6
72.5°	492.1	530.3	593.4	658.0	681.5
75°	398.1	434.8	502.3	562.6	589.0
77.5°	305.5	345.2	408.3	470.0	496.5
80°	217.4	255.6	320.2	379.0	406.9
82.5°	138.1	171.9	236.5	289.4	309.9
85°	70.5	99.9	148.4	166.0	176.3
87.5°	20.6	35.3	52.9	66.1	73.4
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	15.9	17.6	16.3	17.9	18.2	16.7	18.3	17.0	18.7	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	19.8	18.7	20.1	20.5	19.6	21.0	20.0	21.4	21.8
	6H	18.7	20.1	19.2	20.4	20.8	20.4	21.7	20.8	22.1	22.4
	8H	18.8	20.1	19.3	20.5	20.9	20.7	21.9	21.1	22.3	22.7
	12H	18.9	20.1	19.3	20.5	20.9	20.9	22.1	21.3	22.4	22.9
4H	2H	16.7	18.1	17.1	18.5	18.9	17.3	18.7	17.7	19.1	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	21.0	22.1	22.5
	6H	20.0	20.9	20.4	21.4	21.8	21.5	22.5	22.0	22.9	23.4
	8H	20.1	21.0	20.6	21.4	21.9	21.9	22.8	22.3	23.2	23.7
	12H	20.2	21.0	20.7	21.5	21.9	22.1	22.9	22.6	23.4	23.9
8H	4H	19.9	20.8	20.4	21.2	21.7	20.9	21.8	21.4	22.2	22.7
	6H	20.6	21.3	21.0	21.8	22.3	22.0	22.7	22.5	23.2	23.7
	8H	20.8	21.4	21.3	21.9	22.4	22.4	23.1	23.0	23.6	24.1
	12H	20.9	21.5	21.4	22.0	22.5	22.8	23.4	23.3	23.9	24.4
12H	4H	20.0	20.8	20.5	21.2	21.7	20.9	21.7	21.4	22.2	22.7
	6H	20.7	21.4	21.2	21.8	22.4	22.0	22.7	22.6	23.2	23.7
	8H	21.0	21.5	21.5	22.0	22.6	22.6	23.1	23.1	23.6	24.2

(END OF REPORT)