

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: P1589961

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589961
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-L850
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 7000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

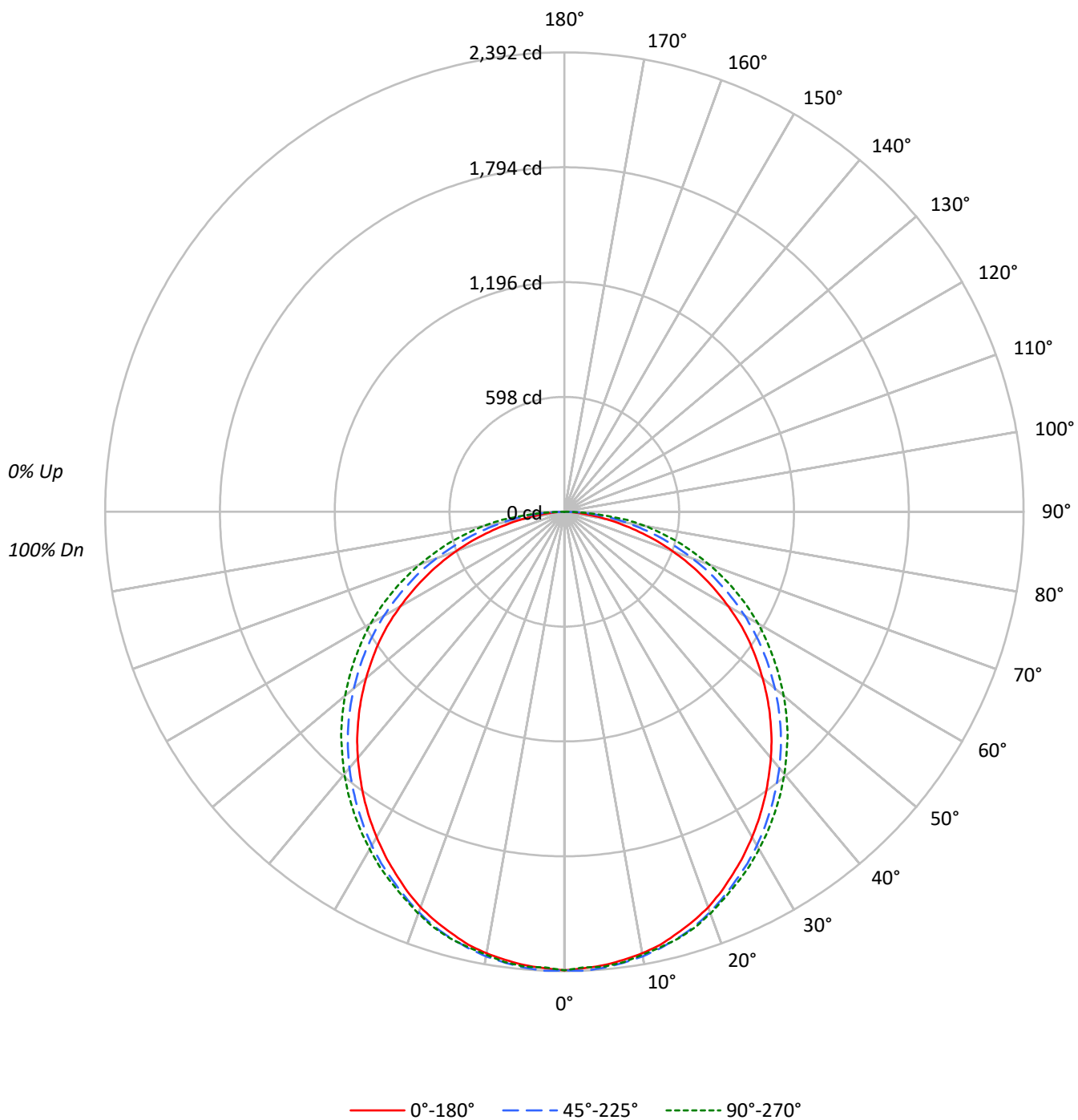
Lumens per Lamp: N/A
Luminaire Lumens: 6968.0 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3657	3657	3657
5°	3644	3664	3655
10°	3631	3656	3642
15°	3604	3641	3646
20°	3572	3615	3627
25°	3514	3576	3601
30°	3458	3547	3586
35°	3403	3513	3574
40°	3347	3482	3565
45°	3284	3450	3562
50°	3212	3412	3553
55°	3139	3375	3552
60°	3022	3325	3573
65°	2881	3260	3576
70°	2688	3170	3586
75°	2391	3055	3648
80°	1964	2927	3786
85°	1295	2747	3422

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3876 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.9	3.2
10°-20°	646.5	9.3
20°-30°	974.4	14.0
30°-40°	1173.4	16.8
40°-50°	1225.9	17.6
50°-60°	1126.3	16.2
60°-70°	886.9	12.7
70°-80°	543.8	7.8
80°-90°	164.9	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°	1846.8	26.5
0°-40°	3020.2	43.3
0°-60°	5372.4	77.1
0°-90°	6968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6968.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2388	2388	2388	2388	2388	
5°	2370	2374	2383	2380	2377	225
15°	2273	2282	2296	2305	2299	641
25°	2079	2093	2116	2138	2131	959
35°	1820	1844	1879	1913	1911	1138
45°	1516	1548	1593	1637	1644	1169
55°	1175	1209	1264	1318	1330	1049
65°	795	836	900	960	987	786
75°	404	451	516	578	616	430
85°	74	109	156	174	195	95
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2387.7	2387.7	2387.7	2387.7	2387.7
2.5°	2378.8	2384.7	2392.1	2380.3	2374.4
5°	2370.0	2374.4	2383.2	2380.3	2377.3
7.5°	2353.7	2356.7	2368.5	2368.5	2365.5
10°	2334.6	2340.5	2350.8	2349.3	2341.9
12.5°	2309.5	2313.9	2325.7	2325.7	2321.3
15°	2272.6	2281.5	2296.2	2305.1	2299.2
17.5°	2234.3	2243.1	2262.3	2271.1	2268.2
20°	2191.5	2198.9	2218.1	2231.3	2225.4
22.5°	2138.4	2147.3	2169.4	2184.1	2178.2
25°	2079.4	2092.7	2116.3	2138.4	2131.0
27.5°	2020.4	2035.2	2064.7	2086.8	2083.9
30°	1955.5	1974.7	2005.7	2033.7	2027.8
32.5°	1889.2	1911.3	1943.7	1973.2	1971.8
35°	1819.9	1843.5	1878.9	1912.8	1911.3
37.5°	1746.1	1774.1	1811.0	1847.9	1849.4
40°	1673.9	1700.4	1741.7	1781.5	1783.0
42.5°	1597.2	1625.2	1669.4	1710.7	1712.2
45°	1516.1	1548.5	1592.8	1637.0	1644.4
47.5°	1433.5	1467.4	1513.1	1560.3	1569.2
50°	1347.9	1383.3	1432.0	1482.1	1491.0
52.5°	1260.9	1297.8	1347.9	1398.1	1411.4
55°	1175.4	1209.3	1263.9	1318.4	1330.2
57.5°	1085.4	1116.4	1175.4	1232.9	1247.7
60°	986.6	1025.0	1085.4	1142.9	1166.5
62.5°	890.8	932.1	994.0	1051.5	1078.1
65°	794.9	836.2	899.6	960.1	986.6
67.5°	697.6	740.3	808.2	865.7	895.2
70°	600.2	643.0	707.9	769.8	800.8
72.5°	502.9	548.6	612.0	675.4	706.4
75°	404.1	451.3	516.2	578.1	616.5
77.5°	311.2	356.9	421.8	485.2	517.6
80°	222.7	268.4	331.8	395.2	429.2
82.5°	141.6	184.3	246.3	299.4	330.3
85°	73.7	109.1	156.3	174.0	194.7
87.5°	22.1	42.8	60.5	67.8	84.1
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	16.0	17.7	16.4	18.0	18.3	16.8	18.4	17.1	18.7	19.1
	3H	17.8	19.3	18.2	19.6	20.0	18.9	20.4	19.2	20.7	21.1
	4H	18.4	19.8	18.8	20.2	20.6	19.7	21.2	20.1	21.5	21.9
	6H	18.8	20.1	19.2	20.5	20.9	20.5	21.8	20.9	22.2	22.6
	8H	18.9	20.2	19.3	20.6	21.0	20.8	22.1	21.2	22.5	22.9
	12H	19.0	20.2	19.4	20.6	21.0	21.0	22.2	21.5	22.6	23.1
4H	2H	16.8	18.2	17.2	18.6	18.9	17.4	18.8	17.8	19.1	19.5
	3H	18.8	20.0	19.2	20.4	20.8	19.7	20.9	20.1	21.3	21.7
	4H	19.5	20.6	20.0	21.0	21.5	20.7	21.8	21.2	22.2	22.7
	6H	20.1	21.0	20.5	21.5	21.9	21.7	22.6	22.1	23.1	23.5
	8H	20.2	21.1	20.7	21.6	22.0	22.0	22.9	22.5	23.4	23.8
	12H	20.3	21.1	20.8	21.6	22.1	22.3	23.1	22.8	23.6	24.1
8H	4H	20.0	20.9	20.4	21.3	21.8	21.0	21.9	21.5	22.4	22.8
	6H	20.7	21.4	21.2	21.9	22.4	22.1	22.9	22.6	23.3	23.8
	8H	20.9	21.6	21.4	22.1	22.5	22.6	23.3	23.1	23.8	24.3
	12H	21.0	21.6	21.5	22.1	22.7	23.0	23.6	23.5	24.1	24.6
12H	4H	20.1	20.9	20.6	21.3	21.8	21.1	21.9	21.5	22.3	22.8
	6H	20.8	21.5	21.3	21.9	22.5	22.2	22.9	22.7	23.3	23.8
	8H	21.1	21.7	21.6	22.2	22.7	22.7	23.3	23.2	23.8	24.4

(END OF REPORT)