

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: P1589958

Luminaire Tested: 24CZSP-SB-65VHE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589958
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-L845-S
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 7000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

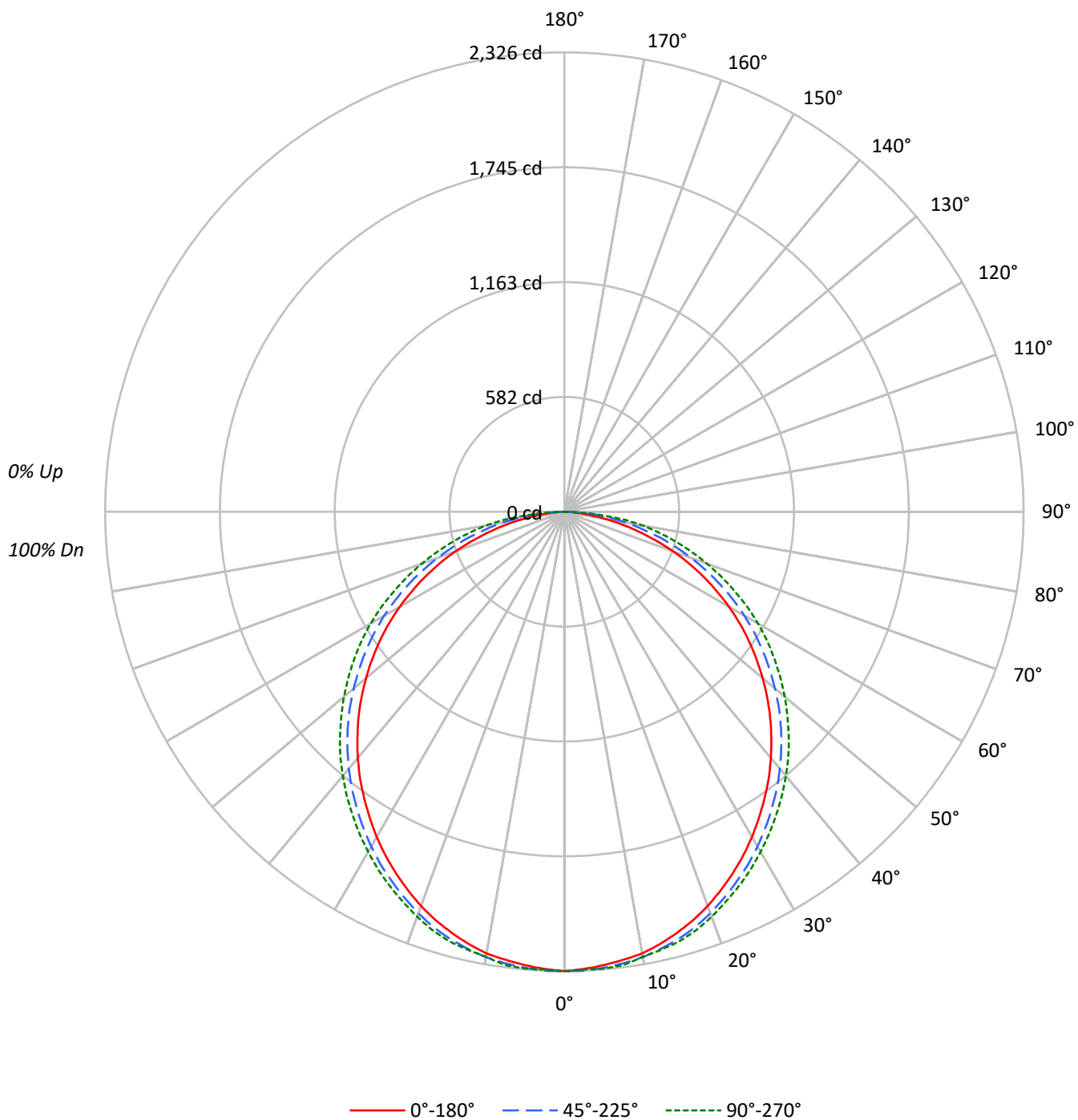
Lumens per Lamp: N/A
Luminaire Lumens: 6766.0 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3562	3562	3562
5°	3542	3563	3569
10°	3531	3561	3559
15°	3499	3550	3570
20°	3461	3525	3556
25°	3412	3490	3535
30°	3362	3460	3516
35°	3307	3426	3500
40°	3254	3396	3489
45°	3194	3361	3481
50°	3125	3319	3472
55°	3047	3276	3467
60°	2952	3228	3469
65°	2817	3160	3450
70°	2633	3064	3441
75°	2334	2946	3454
80°	1900	2799	3556
85°	1228	2583	3070

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3604 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.1	3.3
10°-20°	630.3	9.3
20°-30°	950.3	14.0
30°-40°	1143.5	16.9
40°-50°	1192.8	17.6
50°-60°	1093.3	16.2
60°-70°	858.5	12.7
70°-80°	522.5	7.7
80°-90°	154.6	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°	1800.8	26.6
0°-40°	2944.3	43.5
0°-60°	5230.4	77.3
0°-90°	6766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2326	2326	2326	2326	2326	
5°	2304	2319	2317	2314	2322	219
15°	2207	2228	2239	2242	2252	622
25°	2019	2046	2065	2078	2092	930
35°	1768	1796	1832	1859	1872	1107
45°	1474	1505	1552	1588	1607	1137
55°	1141	1170	1227	1276	1298	1020
65°	777	806	872	930	952	769
75°	394	431	498	558	584	418
85°	70	99	147	164	175	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2325.9	2325.9	2325.9	2325.9	2325.9
2.5°	2317.2	2328.8	2325.9	2315.7	2320.1
5°	2304.1	2318.6	2317.2	2314.3	2321.5
7.5°	2288.1	2304.1	2305.5	2305.5	2314.3
10°	2270.6	2286.6	2289.5	2285.2	2288.1
12.5°	2241.5	2260.4	2266.2	2266.2	2270.6
15°	2206.6	2228.4	2238.6	2241.5	2251.7
17.5°	2168.7	2192.0	2205.1	2212.4	2221.1
20°	2123.6	2148.3	2162.9	2171.6	2181.8
22.5°	2072.7	2100.3	2116.3	2125.1	2136.7
25°	2018.8	2046.5	2065.4	2078.5	2091.6
27.5°	1962.0	1988.2	2014.4	2030.4	2042.1
30°	1900.9	1928.6	1956.2	1976.6	1988.2
32.5°	1835.4	1864.5	1896.5	1918.4	1931.5
35°	1768.5	1796.1	1832.5	1858.7	1871.8
37.5°	1700.0	1729.2	1767.0	1794.7	1810.7
40°	1627.3	1657.8	1698.6	1729.2	1745.2
42.5°	1551.6	1580.7	1625.8	1660.7	1679.7
45°	1474.4	1505.0	1551.6	1588.0	1606.9
47.5°	1394.4	1423.5	1474.4	1516.6	1532.7
50°	1311.4	1339.1	1392.9	1438.1	1457.0
52.5°	1227.0	1256.1	1310.0	1358.0	1378.4
55°	1141.1	1170.2	1227.0	1276.5	1298.3
57.5°	1053.8	1082.9	1141.1	1192.1	1218.3
60°	963.6	992.7	1053.8	1106.2	1132.4
62.5°	870.4	901.0	963.6	1017.4	1045.1
65°	777.2	806.4	871.9	930.1	951.9
67.5°	684.1	713.2	777.2	835.5	861.7
70°	588.0	621.5	684.1	745.2	768.5
72.5°	487.6	525.4	588.0	652.1	675.4
75°	394.4	430.8	497.8	557.5	583.7
77.5°	302.7	342.0	404.6	465.8	492.0
80°	215.4	253.3	317.3	375.5	403.2
82.5°	136.8	170.3	234.3	286.7	307.1
85°	69.9	99.0	147.0	164.5	174.7
87.5°	20.4	34.9	52.4	65.5	72.8
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	16.6	18.3	17.0	18.6	18.9
	3H	17.7	19.2	18.1	19.5	19.9	18.7	20.2	19.1	20.6	20.9
	4H	18.3	19.7	18.7	20.1	20.4	19.6	21.0	20.0	21.4	21.7
	6H	18.7	20.0	19.1	20.4	20.8	20.3	21.7	20.7	22.0	22.4
	8H	18.8	20.1	19.2	20.5	20.9	20.6	21.9	21.1	22.3	22.7
	12H	18.9	20.1	19.3	20.5	20.9	20.8	22.0	21.3	22.4	22.8
4H	2H	16.7	18.1	17.1	18.4	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	19.8	20.9	21.3	20.6	21.7	21.0	22.1	22.5
	6H	19.9	20.9	20.4	21.3	21.8	21.5	22.4	21.9	22.9	23.3
	8H	20.1	21.0	20.5	21.4	21.9	21.9	22.7	22.3	23.2	23.7
	12H	20.2	21.0	20.6	21.4	21.9	22.1	22.9	22.6	23.4	23.9
8H	4H	19.9	20.8	20.3	21.2	21.7	20.9	21.8	21.3	22.2	22.7
	6H	20.5	21.3	21.0	21.8	22.2	21.9	22.7	22.4	23.2	23.6
	8H	20.7	21.4	21.2	21.9	22.4	22.4	23.1	22.9	23.6	24.1
	12H	20.9	21.5	21.4	21.9	22.5	22.8	23.4	23.3	23.8	24.4
12H	4H	19.9	20.7	20.4	21.2	21.7	20.9	21.7	21.4	22.2	22.7
	6H	20.7	21.3	21.2	21.8	22.3	22.0	22.7	22.5	23.1	23.7
	8H	20.9	21.5	21.4	22.0	22.6	22.5	23.1	23.0	23.6	24.2

(END OF REPORT)