

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: P1589959

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589959
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-L845
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 7000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

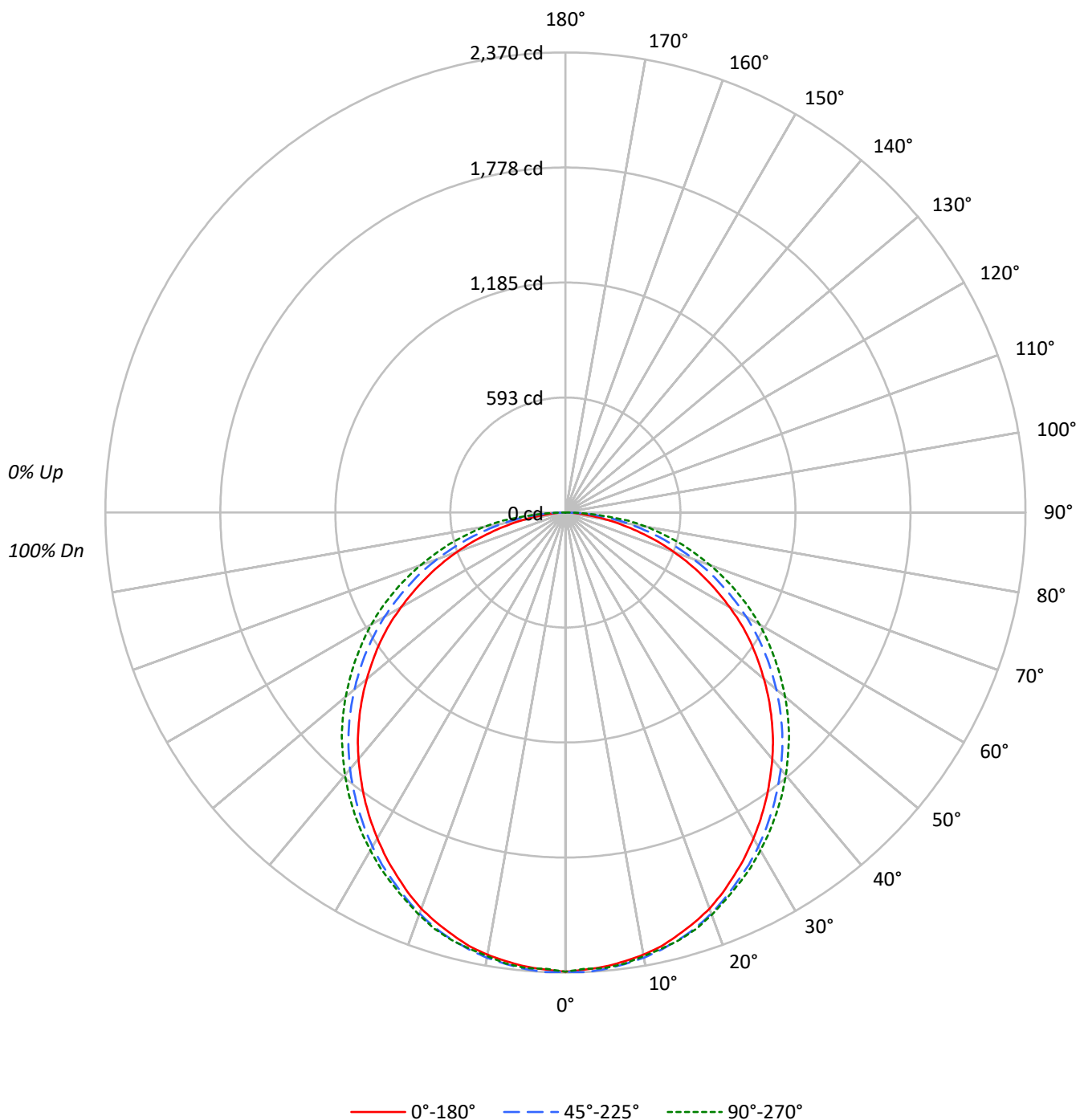
Lumens per Lamp: N/A
Luminaire Lumens: 6904.0 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3623	3623	3623
5°	3610	3630	3622
10°	3597	3622	3609
15°	3570	3608	3612
20°	3539	3582	3594
25°	3482	3544	3568
30°	3427	3515	3553
35°	3372	3481	3541
40°	3316	3450	3532
45°	3254	3418	3529
50°	3182	3381	3520
55°	3110	3344	3519
60°	2995	3295	3541
65°	2854	3230	3543
70°	2663	3141	3553
75°	2369	3026	3615
80°	1946	2900	3750
85°	1285	2722	3390

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3841 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.8	3.2
10°-20°	640.5	9.3
20°-30°	965.5	14.0
30°-40°	1162.7	16.8
40°-50°	1214.7	17.6
50°-60°	1115.9	16.2
60°-70°	878.8	12.7
70°-80°	538.8	7.8
80°-90°	163.4	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°	1829.8	26.5
0°-40°	2992.5	43.3
0°-60°	5323.1	77.1
0°-90°	6904.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6904.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2366	2366	2366	2366	2366	
5°	2348	2353	2361	2358	2356	223
15°	2252	2260	2275	2284	2278	635
25°	2060	2074	2097	2119	2112	950
35°	1803	1826	1862	1895	1894	1128
45°	1502	1534	1578	1622	1629	1159
55°	1165	1198	1252	1306	1318	1039
65°	788	828	891	951	978	779
75°	400	447	511	573	611	426
85°	73	108	155	172	193	94
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2365.7	2365.7	2365.7	2365.7	2365.7
2.5°	2357.0	2362.8	2370.1	2358.4	2352.6
5°	2348.2	2352.6	2361.3	2358.4	2355.5
7.5°	2332.1	2335.0	2346.7	2346.7	2343.8
10°	2313.1	2319.0	2329.2	2327.7	2320.4
12.5°	2288.3	2292.7	2304.4	2304.4	2300.0
15°	2251.7	2260.5	2275.1	2283.9	2278.1
17.5°	2213.8	2222.5	2241.5	2250.3	2247.4
20°	2171.4	2178.7	2197.7	2210.8	2205.0
22.5°	2118.8	2127.5	2149.5	2164.1	2158.2
25°	2060.3	2073.5	2096.9	2118.8	2111.5
27.5°	2001.9	2016.5	2045.7	2067.6	2064.7
30°	1937.6	1956.6	1987.3	2015.0	2009.2
32.5°	1871.8	1893.7	1925.9	1955.1	1953.7
35°	1803.2	1826.5	1861.6	1895.2	1893.7
37.5°	1730.1	1757.9	1794.4	1830.9	1832.4
40°	1658.5	1684.8	1725.7	1765.2	1766.6
42.5°	1582.5	1610.3	1654.1	1695.0	1696.5
45°	1502.1	1534.3	1578.1	1622.0	1629.3
47.5°	1420.3	1453.9	1499.2	1546.0	1554.7
50°	1335.6	1370.6	1418.9	1468.5	1477.3
52.5°	1249.3	1285.9	1335.6	1385.2	1398.4
55°	1164.6	1198.2	1252.3	1306.3	1318.0
57.5°	1075.5	1106.1	1164.6	1221.6	1236.2
60°	977.6	1015.6	1075.5	1132.4	1155.8
62.5°	882.6	923.5	984.9	1041.9	1068.2
65°	787.6	828.5	891.3	951.3	977.6
67.5°	691.2	733.5	800.8	857.7	887.0
70°	594.7	637.1	701.4	762.8	793.4
72.5°	498.3	543.6	606.4	669.2	699.9
75°	400.4	447.1	511.4	572.8	610.8
77.5°	308.3	353.6	417.9	480.7	512.9
80°	220.6	265.9	328.8	391.6	425.2
82.5°	140.3	182.7	244.0	296.6	327.3
85°	73.1	108.1	154.9	172.4	192.9
87.5°	21.9	42.4	59.9	67.2	83.3
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	17.6	16.4	18.0	18.3	16.7	18.4	17.1	18.7	19.0
	3H	17.7	19.3	18.1	19.6	19.9	18.8	20.3	19.2	20.7	21.0
	4H	18.4	19.8	18.8	20.1	20.5	19.7	21.1	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	20.5	20.9	20.8	22.1	21.2	22.4	22.8
	12H	18.9	20.2	19.4	20.5	21.0	21.0	22.2	21.4	22.6	23.0
4H	2H	16.8	18.2	17.2	18.5	18.9	17.3	18.8	17.7	19.1	19.5
	3H	18.7	19.9	19.2	20.3	20.7	19.7	20.9	20.1	21.3	21.7
	4H	19.5	20.6	19.9	21.0	21.4	20.7	21.8	21.1	22.2	22.6
	6H	20.0	21.0	20.5	21.4	21.9	21.6	22.6	22.1	23.0	23.5
	8H	20.2	21.1	20.6	21.5	22.0	22.0	22.9	22.5	23.3	23.8
	12H	20.3	21.1	20.8	21.6	22.0	22.3	23.1	22.8	23.6	24.0
8H	4H	20.0	20.8	20.4	21.3	21.8	21.0	21.9	21.5	22.3	22.8
	6H	20.6	21.4	21.1	21.9	22.3	22.1	22.8	22.6	23.3	23.8
	8H	20.9	21.5	21.4	22.0	22.5	22.6	23.2	23.1	23.7	24.2
	12H	21.0	21.6	21.5	22.1	22.6	22.9	23.5	23.5	24.0	24.6
12H	4H	20.0	20.8	20.5	21.3	21.8	21.0	21.8	21.5	22.3	22.8
	6H	20.8	21.4	21.3	21.9	22.4	22.1	22.8	22.7	23.3	23.8
	8H	21.1	21.6	21.6	22.1	22.7	22.7	23.3	23.2	23.8	24.3

(END OF REPORT)