

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: P1589938

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589938
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-65-L845-S
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 6000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

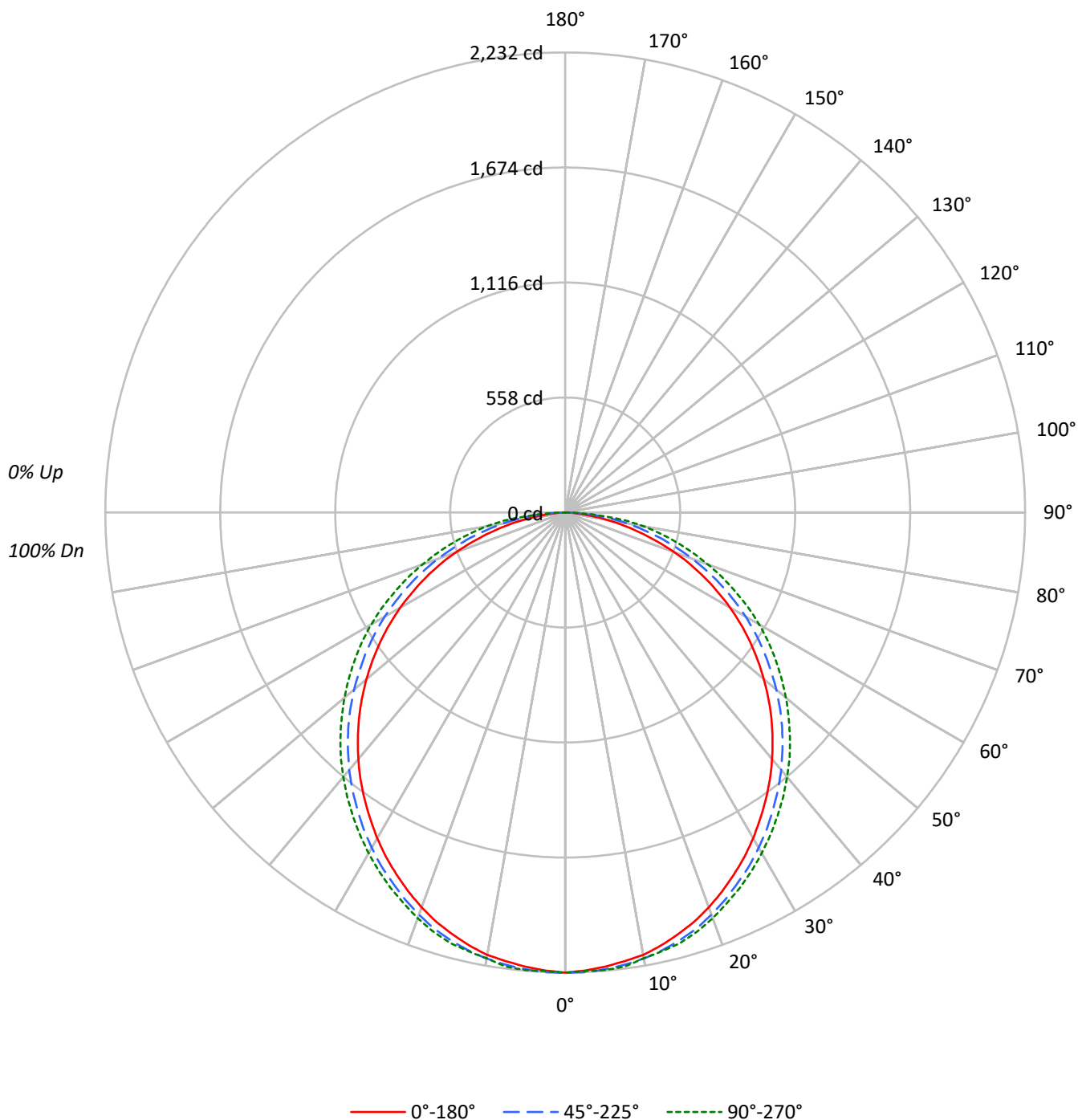
Lumens per Lamp: N/A
Luminaire Lumens: 6494.0 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 47.9
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°	3419	3419	3419
5°	3400	3419	3426
10°	3389	3418	3415
15°	3358	3407	3427
20°	3322	3384	3413
25°	3274	3350	3393
30°	3227	3321	3375
35°	3174	3289	3359
40°	3123	3260	3349
45°	3065	3226	3341
50°	2999	3186	3332
55°	2925	3145	3327
60°	2833	3098	3329
65°	2704	3033	3311
70°	2527	2940	3303
75°	2240	2827	3315
80°	1824	2686	3413
85°	1179	2480	2945

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3459 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.3	3.3
10°-20°	605.0	9.3
20°-30°	912.1	14.0
30°-40°	1097.5	16.9
40°-50°	1144.8	17.6
50°-60°	1049.4	16.2
60°-70°	824.0	12.7
70°-80°	501.5	7.7
80°-90°	148.4	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°	1728.4	26.6
0°-40°	2825.9	43.5
0°-60°	5020.1	77.3
0°-90°	6494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2232	2232	2232	2232	2232	
5°	2212	2225	2224	2221	2228	210
15°	2118	2139	2149	2151	2161	597
25°	1938	1964	1982	1995	2008	893
35°	1697	1724	1759	1784	1796	1062
45°	1415	1444	1489	1524	1542	1091
55°	1095	1123	1178	1225	1246	979
65°	746	774	837	893	914	738
75°	379	414	478	535	560	401
85°	67	95	141	158	168	87
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2232.4	2232.4	2232.4	2232.4	2232.4
2.5°	2224.0	2235.2	2232.4	2222.6	2226.8
5°	2211.5	2225.4	2224.0	2221.2	2228.2
7.5°	2196.1	2211.5	2212.9	2212.9	2221.2
10°	2179.3	2194.7	2197.5	2193.3	2196.1
12.5°	2151.4	2169.5	2175.1	2175.1	2179.3
15°	2117.9	2138.8	2148.6	2151.4	2161.2
17.5°	2081.5	2103.9	2116.5	2123.4	2131.8
20°	2038.2	2062.0	2075.9	2084.3	2094.1
22.5°	1989.3	2015.9	2031.2	2039.6	2050.8
25°	1937.6	1964.2	1982.3	1994.9	2007.5
27.5°	1883.2	1908.3	1933.5	1948.8	1960.0
30°	1824.5	1851.0	1877.6	1897.1	1908.3
32.5°	1761.6	1789.6	1820.3	1841.3	1853.8
35°	1697.4	1723.9	1758.8	1784.0	1796.5
37.5°	1631.7	1659.6	1696.0	1722.5	1737.9
40°	1561.9	1591.2	1630.3	1659.6	1675.0
42.5°	1489.2	1517.1	1560.5	1594.0	1612.1
45°	1415.2	1444.5	1489.2	1524.1	1542.3
47.5°	1338.3	1366.3	1415.2	1455.7	1471.0
50°	1258.7	1285.2	1336.9	1380.2	1398.4
52.5°	1177.7	1205.6	1257.3	1303.4	1323.0
55°	1095.3	1123.2	1177.7	1225.2	1246.1
57.5°	1011.4	1039.4	1095.3	1144.1	1169.3
60°	924.8	952.8	1011.4	1061.7	1086.9
62.5°	835.4	864.7	924.8	976.5	1003.0
65°	746.0	773.9	836.8	892.7	913.6
67.5°	656.6	684.5	746.0	801.9	827.0
70°	564.4	596.5	656.6	715.3	737.6
72.5°	468.0	504.3	564.4	625.9	648.2
75°	378.6	413.5	477.8	535.1	560.2
77.5°	290.6	328.3	388.4	447.0	472.2
80°	206.8	243.1	304.5	360.4	387.0
82.5°	131.3	163.4	224.9	275.2	294.8
85°	67.1	95.0	141.1	157.9	167.6
87.5°	19.6	33.5	50.3	62.9	69.9
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	17.4	16.1	17.7	18.1	16.5	18.2	16.9	18.5	18.8
	3H	17.5	19.0	17.9	19.4	19.7	18.6	20.1	19.0	20.4	20.8
	4H	18.2	19.6	18.6	19.9	20.3	19.5	20.9	19.8	21.2	21.6
	6H	18.6	19.9	19.0	20.2	20.6	20.2	21.5	20.6	21.9	22.3
	8H	18.7	19.9	19.1	20.3	20.7	20.5	21.8	20.9	22.1	22.5
	12H	18.7	19.9	19.1	20.3	20.7	20.7	21.9	21.1	22.3	22.7
4H	2H	16.5	18.0	16.9	18.3	18.7	17.1	18.5	17.5	18.9	19.3
	3H	18.5	19.7	18.9	20.1	20.5	19.4	20.6	19.8	21.0	21.4
	4H	19.3	20.4	19.7	20.8	21.2	20.4	21.5	20.9	21.9	22.4
	6H	19.8	20.8	20.3	21.2	21.6	21.3	22.3	21.8	22.7	23.2
	8H	19.9	20.8	20.4	21.3	21.7	21.7	22.6	22.2	23.0	23.5
	12H	20.0	20.8	20.5	21.3	21.8	22.0	22.8	22.4	23.2	23.7
8H	4H	19.7	20.6	20.2	21.0	21.5	20.7	21.6	21.2	22.1	22.5
	6H	20.4	21.1	20.9	21.6	22.1	21.8	22.5	22.3	23.0	23.5
	8H	20.6	21.3	21.1	21.8	22.2	22.3	22.9	22.8	23.4	23.9
	12H	20.7	21.3	21.2	21.8	22.4	22.6	23.2	23.1	23.7	24.3
12H	4H	19.8	20.6	20.3	21.1	21.5	20.8	21.6	21.2	22.0	22.5
	6H	20.5	21.2	21.0	21.6	22.2	21.9	22.5	22.4	23.0	23.5
	8H	20.8	21.4	21.3	21.9	22.4	22.4	23.0	22.9	23.5	24.0

(END OF REPORT)