

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: P1589935

Luminaire Tested: 24CZSP-SB-65-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589935
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-65-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 6000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

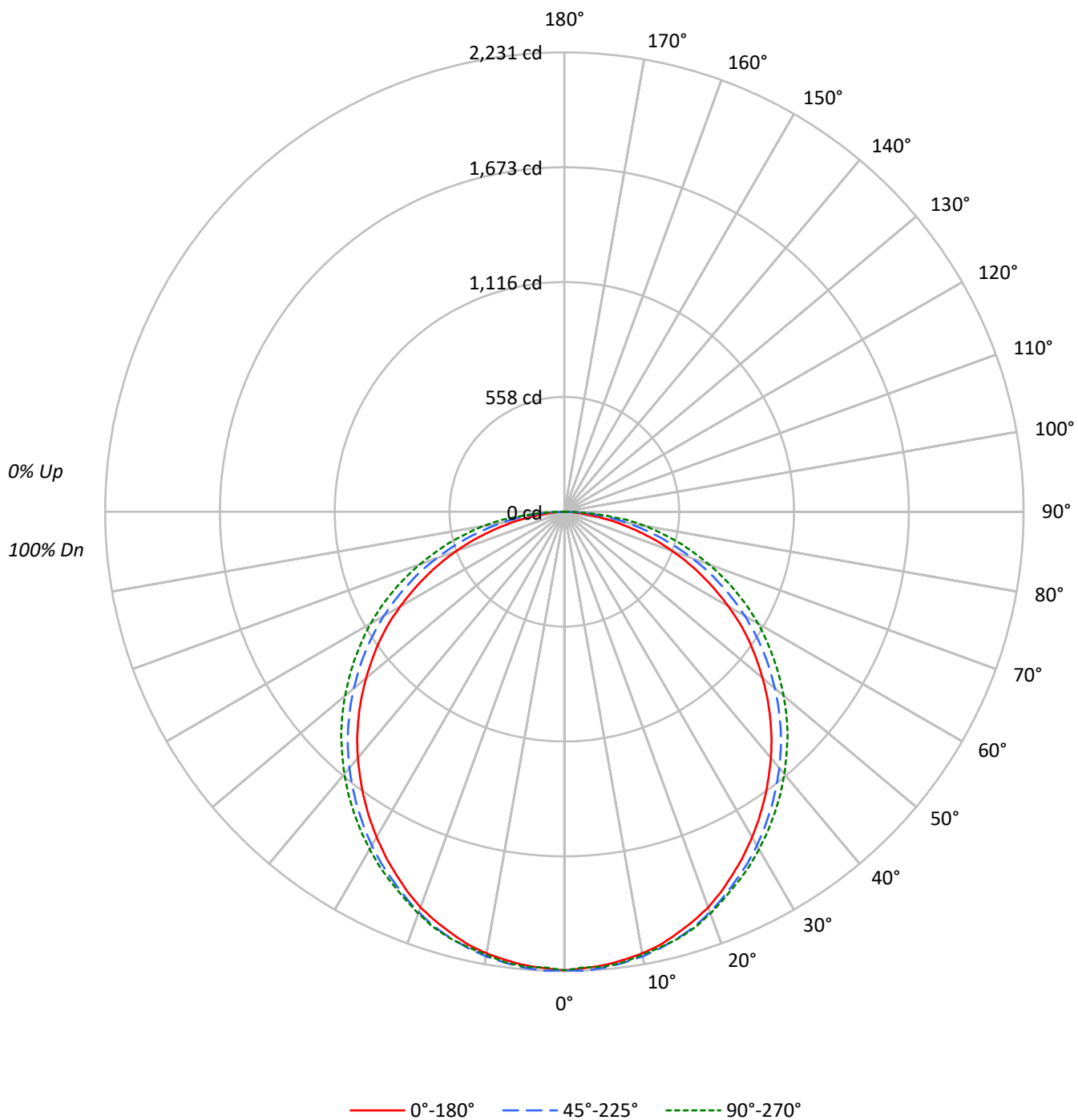
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6499.0 lumens
Efficiency: N/A
Efficacy: 135.7 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): 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	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°	3411	3411	3411
5°	3398	3418	3409
10°	3386	3410	3397
15°	3361	3396	3400
20°	3332	3372	3383
25°	3278	3336	3359
30°	3226	3308	3345
35°	3174	3277	3333
40°	3121	3248	3325
45°	3063	3218	3322
50°	2996	3182	3314
55°	2927	3148	3313
60°	2819	3101	3333
65°	2687	3041	3335
70°	2507	2956	3345
75°	2230	2849	3403
80°	1832	2730	3531
85°	1209	2562	3191

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3615 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.7	3.2
10°-20°	603.0	9.3
20°-30°	908.8	14.0
30°-40°	1094.5	16.8
40°-50°	1143.4	17.6
50°-60°	1050.5	16.2
60°-70°	827.2	12.7
70°-80°	507.2	7.8
80°-90°	153.8	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°	1722.5	26.5
0°-40°	2816.9	43.3
0°-60°	5010.8	77.1
0°-90°	6499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6499.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2227	2227	2227	2227	2227	
5°	2210	2215	2223	2220	2217	210
15°	2120	2128	2142	2150	2144	598
25°	1940	1952	1974	1994	1988	894
35°	1697	1719	1752	1784	1783	1062
45°	1414	1444	1486	1527	1534	1091
55°	1096	1128	1179	1230	1241	978
65°	741	780	839	896	920	733
75°	377	421	481	539	575	401
85°	69	102	146	162	182	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2226.9	2226.9	2226.9	2226.9	2226.9
2.5°	2218.7	2224.2	2231.1	2220.1	2214.6
5°	2210.4	2214.6	2222.8	2220.1	2217.3
7.5°	2195.3	2198.1	2209.1	2209.1	2206.3
10°	2177.4	2182.9	2192.6	2191.2	2184.3
12.5°	2154.0	2158.2	2169.2	2169.2	2165.0
15°	2119.7	2127.9	2141.7	2149.9	2144.4
17.5°	2083.9	2092.1	2110.0	2118.3	2115.5
20°	2044.0	2050.9	2068.8	2081.1	2075.6
22.5°	1994.5	2002.7	2023.4	2037.1	2031.6
25°	1939.5	1951.8	1973.9	1994.5	1987.6
27.5°	1884.4	1898.2	1925.7	1946.3	1943.6
30°	1823.9	1841.8	1870.7	1896.8	1891.3
32.5°	1762.0	1782.7	1812.9	1840.4	1839.1
35°	1697.4	1719.4	1752.4	1784.0	1782.7
37.5°	1628.6	1654.7	1689.1	1723.5	1724.9
40°	1561.2	1586.0	1624.5	1661.6	1663.0
42.5°	1489.7	1515.8	1557.1	1595.6	1597.0
45°	1414.0	1444.3	1485.5	1526.8	1533.7
47.5°	1337.0	1368.6	1411.3	1455.3	1463.5
50°	1257.2	1290.2	1335.6	1382.4	1390.6
52.5°	1176.1	1210.4	1257.2	1304.0	1316.4
55°	1096.3	1127.9	1178.8	1229.7	1240.7
57.5°	1012.4	1041.3	1096.3	1149.9	1163.7
60°	920.2	956.0	1012.4	1066.0	1088.0
62.5°	830.8	869.3	927.1	980.7	1005.5
65°	741.4	779.9	839.1	895.5	920.2
67.5°	650.6	690.5	753.8	807.4	834.9
70°	559.8	599.7	660.2	718.0	746.9
72.5°	469.0	511.7	570.8	630.0	658.9
75°	376.9	420.9	481.4	539.2	575.0
77.5°	290.2	332.9	393.4	452.5	482.8
80°	207.7	250.3	309.5	368.6	400.3
82.5°	132.0	171.9	229.7	279.2	308.1
85°	68.8	101.8	145.8	162.3	181.6
87.5°	20.6	39.9	56.4	63.3	78.4
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	15.8	17.4	16.1	17.8	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	20.5	20.8
	4H	18.2	19.6	18.6	19.9	20.3	19.5	20.9	19.9	21.3	21.6
	6H	18.6	19.9	19.0	20.3	20.7	20.3	21.6	20.7	22.0	22.3
	8H	18.7	19.9	19.1	20.3	20.7	20.6	21.8	21.0	22.2	22.6
	12H	18.7	19.9	19.2	20.3	20.8	20.8	22.0	21.2	22.4	22.8
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	19.5	20.7	19.9	21.0	21.4
	4H	19.3	20.4	19.7	20.8	21.2	20.5	21.6	20.9	22.0	22.4
	6H	19.8	20.8	20.3	21.2	21.7	21.4	22.4	21.9	22.8	23.3
	8H	20.0	20.9	20.4	21.3	21.8	21.8	22.7	22.3	23.1	23.6
	12H	20.1	20.9	20.5	21.3	21.8	22.1	22.9	22.6	23.4	23.8
8H	4H	19.7	20.6	20.2	21.1	21.5	20.8	21.7	21.2	22.1	22.6
	6H	20.4	21.2	20.9	21.7	22.1	21.9	22.6	22.4	23.1	23.6
	8H	20.6	21.3	21.2	21.8	22.3	22.4	23.0	22.9	23.5	24.0
	12H	20.8	21.4	21.3	21.9	22.4	22.7	23.3	23.2	23.8	24.4
12H	4H	19.8	20.6	20.3	21.1	21.6	20.8	21.6	21.3	22.1	22.6
	6H	20.6	21.2	21.1	21.7	22.2	21.9	22.6	22.5	23.1	23.6
	8H	20.8	21.4	21.3	21.9	22.5	22.5	23.1	23.0	23.6	24.1

(END OF REPORT)