

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: P1589944

Luminaire Tested: 24CZSP-SB-65-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589944
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-L935-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 6000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

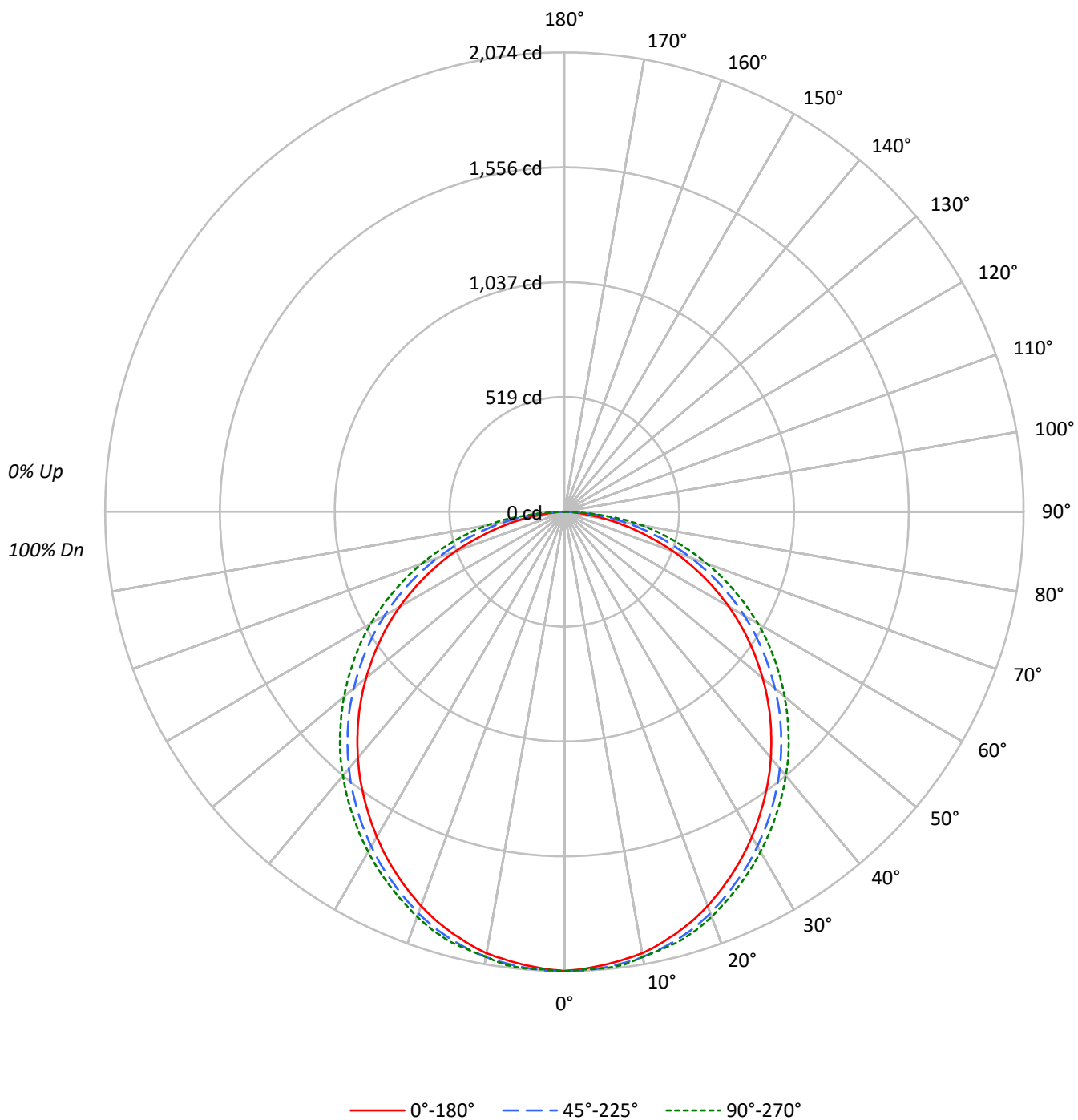
Lumens per Lamp: N/A
Luminaire Lumens: 6032.0 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3176	3176	3176
5°	3158	3176	3182
10°	3148	3175	3173
15°	3119	3164	3183
20°	3086	3143	3170
25°	3042	3112	3151
30°	2997	3084	3135
35°	2948	3055	3120
40°	2901	3028	3111
45°	2847	2996	3103
50°	2786	2959	3095
55°	2717	2921	3091
60°	2631	2878	3092
65°	2511	2817	3075
70°	2347	2731	3068
75°	2081	2626	3079
80°	1693	2495	3170
85°	1095	2304	2736

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3213 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.2	3.3
10°-20°	561.9	9.3
20°-30°	847.3	14.0
30°-40°	1019.5	16.9
40°-50°	1063.4	17.6
50°-60°	974.7	16.2
60°-70°	765.4	12.7
70°-80°	465.8	7.7
80°-90°	137.8	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°	1605.4	26.6
0°-40°	2624.9	43.5
0°-60°	4663.0	77.3
0°-90°	6032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6032.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2074	2074	2074	2074	2074	
5°	2054	2067	2066	2063	2070	195
15°	1967	1987	1996	1998	2007	555
25°	1800	1824	1841	1853	1865	829
35°	1577	1601	1634	1657	1669	987
45°	1314	1342	1383	1416	1433	1014
55°	1017	1043	1094	1138	1158	909
65°	693	719	777	829	849	685
75°	352	384	444	497	520	373
85°	62	88	131	147	156	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2073.6	2073.6	2073.6	2073.6	2073.6
2.5°	2065.8	2076.2	2073.6	2064.5	2068.4
5°	2054.1	2067.1	2065.8	2063.2	2069.7
7.5°	2039.9	2054.1	2055.4	2055.4	2063.2
10°	2024.3	2038.6	2041.2	2037.3	2039.9
12.5°	1998.3	2015.2	2020.4	2020.4	2024.3
15°	1967.2	1986.7	1995.7	1998.3	2007.4
17.5°	1933.5	1954.2	1965.9	1972.4	1980.2
20°	1893.2	1915.3	1928.3	1936.0	1945.1
22.5°	1847.8	1872.5	1886.7	1894.5	1904.9
25°	1799.8	1824.5	1841.3	1853.0	1864.7
27.5°	1749.2	1772.5	1795.9	1810.2	1820.6
30°	1694.7	1719.3	1744.0	1762.2	1772.5
32.5°	1636.3	1662.2	1690.8	1710.3	1721.9
35°	1576.6	1601.3	1633.7	1657.1	1668.7
37.5°	1515.6	1541.6	1575.3	1600.0	1614.2
40°	1450.7	1478.0	1514.3	1541.6	1555.8
42.5°	1383.3	1409.2	1449.4	1480.6	1497.5
45°	1314.5	1341.7	1383.3	1415.7	1432.6
47.5°	1243.1	1269.1	1314.5	1352.1	1366.4
50°	1169.2	1193.8	1241.8	1282.0	1298.9
52.5°	1093.9	1119.8	1167.9	1210.7	1228.8
55°	1017.3	1043.3	1093.9	1138.0	1157.5
57.5°	939.5	965.4	1017.3	1062.7	1086.1
60°	859.0	885.0	939.5	986.2	1009.5
62.5°	776.0	803.2	859.0	907.0	931.7
65°	692.9	718.9	777.3	829.2	848.6
67.5°	609.9	635.8	692.9	744.8	768.2
70°	524.2	554.1	609.9	664.4	685.1
72.5°	434.7	468.4	524.2	581.3	602.1
75°	351.7	384.1	443.8	497.0	520.3
77.5°	269.9	304.9	360.7	415.2	438.6
80°	192.0	225.8	282.9	334.8	359.4
82.5°	122.0	151.8	208.9	255.6	273.8
85°	62.3	88.2	131.1	146.6	155.7
87.5°	18.2	31.1	46.7	58.4	64.9
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	15.5	17.2	15.9	17.5	17.8	16.2	17.9	16.6	18.2	18.5
	3H	17.3	18.8	17.7	19.1	19.5	18.3	19.8	18.7	20.2	20.5
	4H	17.9	19.3	18.3	19.7	20.0	19.2	20.6	19.6	21.0	21.3
	6H	18.3	19.6	18.7	20.0	20.4	19.9	21.3	20.3	21.6	22.0
	8H	18.4	19.7	18.8	20.1	20.5	20.2	21.5	20.7	21.9	22.3
	12H	18.5	19.7	18.9	20.1	20.5	20.4	21.6	20.9	22.0	22.4
4H	2H	16.3	17.7	16.7	18.0	18.4	16.9	18.3	17.3	18.6	19.0
	3H	18.3	19.5	18.7	19.9	20.3	19.2	20.4	19.6	20.8	21.2
	4H	19.0	20.1	19.4	20.5	20.9	20.2	21.3	20.6	21.7	22.1
	6H	19.5	20.5	20.0	20.9	21.4	21.1	22.0	21.5	22.5	22.9
	8H	19.7	20.6	20.1	21.0	21.5	21.5	22.3	21.9	22.8	23.3
	12H	19.8	20.6	20.2	21.0	21.5	21.7	22.5	22.2	23.0	23.5
8H	4H	19.5	20.4	19.9	20.8	21.3	20.5	21.4	20.9	21.8	22.3
	6H	20.1	20.9	20.6	21.4	21.8	21.5	22.3	22.0	22.8	23.2
	8H	20.3	21.0	20.8	21.5	22.0	22.0	22.7	22.5	23.2	23.7
	12H	20.5	21.1	21.0	21.6	22.1	22.4	23.0	22.9	23.4	24.0
12H	4H	19.5	20.3	20.0	20.8	21.3	20.5	21.3	21.0	21.8	22.3
	6H	20.3	20.9	20.8	21.4	21.9	21.6	22.3	22.1	22.7	23.3
	8H	20.5	21.1	21.0	21.6	22.2	22.1	22.7	22.6	23.2	23.8

(END OF REPORT)