

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: P1589945

Luminaire Tested: 24CZSP-SB-65-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589945
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-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 6000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

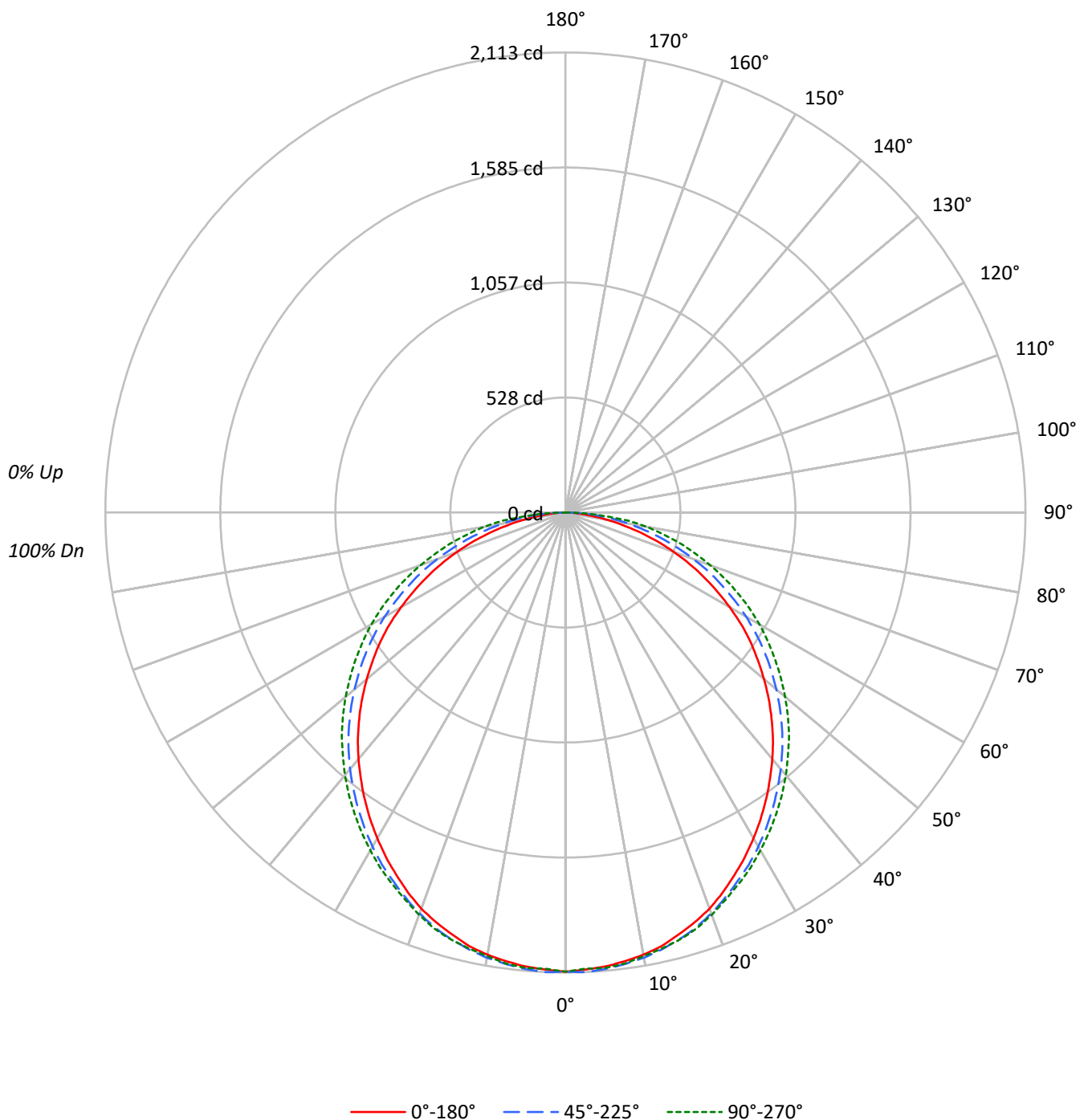
Lumens per Lamp: N/A
Luminaire Lumens: 6155.0 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1589945

CATALOG NUMBER: 24CZSP-SB-65-L935

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	93	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	63	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		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	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3230	3230	3230
5°	3219	3237	3229
10°	3207	3229	3217
15°	3183	3216	3220
20°	3155	3194	3204
25°	3104	3159	3181
30°	3055	3133	3168
35°	3006	3103	3157
40°	2956	3076	3149
45°	2901	3047	3146
50°	2837	3014	3138
55°	2773	2981	3138
60°	2670	2937	3156
65°	2545	2880	3158
70°	2374	2800	3168
75°	2112	2698	3222
80°	1735	2585	3344
85°	1144	2427	3023

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3424 cd/sqm

TEST NUMBER: P1589945

CATALOG NUMBER: 24CZSP-SB-65-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	3.2
10°-20°	571.1	9.3
20°-30°	860.7	14.0
30°-40°	1036.5	16.8
40°-50°	1082.9	17.6
50°-60°	994.9	16.2
60°-70°	783.4	12.7
70°-80°	480.3	7.8
80°-90°	145.6	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°	1631.3	26.5
0°-40°	2667.8	43.3
0°-60°	4745.6	77.1
0°-90°	6155.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6155.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2109	2109	2109	2109	2109	
5°	2093	2097	2105	2103	2100	199
15°	2008	2015	2028	2036	2031	566
25°	1837	1848	1869	1889	1882	847
35°	1608	1628	1660	1690	1688	1005
45°	1339	1368	1407	1446	1452	1033
55°	1038	1068	1116	1165	1175	926
65°	702	739	795	848	872	694
75°	357	399	456	511	544	379
85°	65	96	138	154	172	84
90°	0	0	0	0	0	

TEST NUMBER: P1589945

CATALOG NUMBER: 24CZSP-SB-65-L935

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2109.1	2109.1	2109.1	2109.1	2109.1
2.5°	2101.3	2106.5	2113.0	2102.6	2097.3
5°	2093.4	2097.3	2105.2	2102.6	2100.0
7.5°	2079.1	2081.7	2092.1	2092.1	2089.5
10°	2062.2	2067.4	2076.5	2075.2	2068.7
12.5°	2040.0	2043.9	2054.4	2054.4	2050.5
15°	2007.5	2015.3	2028.3	2036.1	2030.9
17.5°	1973.6	1981.4	1998.3	2006.2	2003.6
20°	1935.8	1942.3	1959.3	1971.0	1965.8
22.5°	1888.9	1896.7	1916.3	1929.3	1924.1
25°	1836.8	1848.5	1869.4	1888.9	1882.4
27.5°	1784.7	1797.7	1823.8	1843.3	1840.7
30°	1727.4	1744.3	1771.7	1796.4	1791.2
32.5°	1668.8	1688.3	1717.0	1743.0	1741.7
35°	1607.5	1628.4	1659.6	1689.6	1688.3
37.5°	1542.4	1567.1	1599.7	1632.3	1633.6
40°	1478.6	1502.0	1538.5	1573.7	1575.0
42.5°	1410.8	1435.6	1474.7	1511.1	1512.4
45°	1339.2	1367.8	1406.9	1446.0	1452.5
47.5°	1266.2	1296.2	1336.6	1378.3	1386.1
50°	1190.7	1221.9	1264.9	1309.2	1317.0
52.5°	1113.8	1146.4	1190.7	1235.0	1246.7
55°	1038.3	1068.2	1116.4	1164.6	1175.0
57.5°	958.8	986.1	1038.3	1089.1	1102.1
60°	871.5	905.4	958.8	1009.6	1030.4
62.5°	786.8	823.3	878.0	928.8	952.3
65°	702.2	738.6	794.6	848.1	871.5
67.5°	616.2	654.0	713.9	764.7	790.7
70°	530.2	568.0	625.3	680.0	707.4
72.5°	444.2	484.6	540.6	596.6	624.0
75°	356.9	398.6	455.9	510.7	544.5
77.5°	274.9	315.3	372.6	428.6	457.2
80°	196.7	237.1	293.1	349.1	379.1
82.5°	125.1	162.8	217.6	264.4	291.8
85°	65.1	96.4	138.1	153.7	172.0
87.5°	19.5	37.8	53.4	59.9	74.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1589945

CATALOG NUMBER: 24CZSP-SB-65-L935

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	15.6	17.2	16.0	17.6	17.9	16.3	18.0	16.7	18.3	18.6
	3H	17.3	18.9	17.7	19.2	19.5	18.4	19.9	18.8	20.3	20.6
	4H	18.0	19.4	18.4	19.7	20.1	19.3	20.7	19.7	21.1	21.5
	6H	18.4	19.7	18.8	20.1	20.5	20.1	21.4	20.5	21.8	22.2
	8H	18.5	19.8	18.9	20.1	20.5	20.4	21.7	20.8	22.0	22.4
	12H	18.5	19.8	19.0	20.1	20.6	20.6	21.8	21.0	22.2	22.6
4H	2H	16.4	17.8	16.8	18.1	18.5	16.9	18.4	17.3	18.7	19.1
	3H	18.4	19.5	18.8	19.9	20.3	19.3	20.5	19.7	20.9	21.3
	4H	19.1	20.2	19.5	20.6	21.0	20.3	21.4	20.7	21.8	22.2
	6H	19.6	20.6	20.1	21.0	21.5	21.2	22.2	21.7	22.6	23.1
	8H	19.8	20.7	20.2	21.1	21.6	21.6	22.5	22.1	22.9	23.4
	12H	19.9	20.7	20.4	21.2	21.6	21.9	22.7	22.4	23.2	23.6
8H	4H	19.6	20.4	20.0	20.9	21.4	20.6	21.5	21.1	21.9	22.4
	6H	20.2	21.0	20.7	21.5	21.9	21.7	22.4	22.2	22.9	23.4
	8H	20.5	21.1	21.0	21.6	22.1	22.2	22.8	22.7	23.3	23.8
	12H	20.6	21.2	21.1	21.7	22.2	22.5	23.1	23.1	23.6	24.2
12H	4H	19.6	20.4	20.1	20.9	21.4	20.6	21.4	21.1	21.9	22.4
	6H	20.4	21.0	20.9	21.5	22.0	21.8	22.4	22.3	22.9	23.4
	8H	20.7	21.2	21.2	21.7	22.3	22.3	22.9	22.8	23.4	23.9

(END OF REPORT)