

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: P1589965

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589965
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-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 7000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

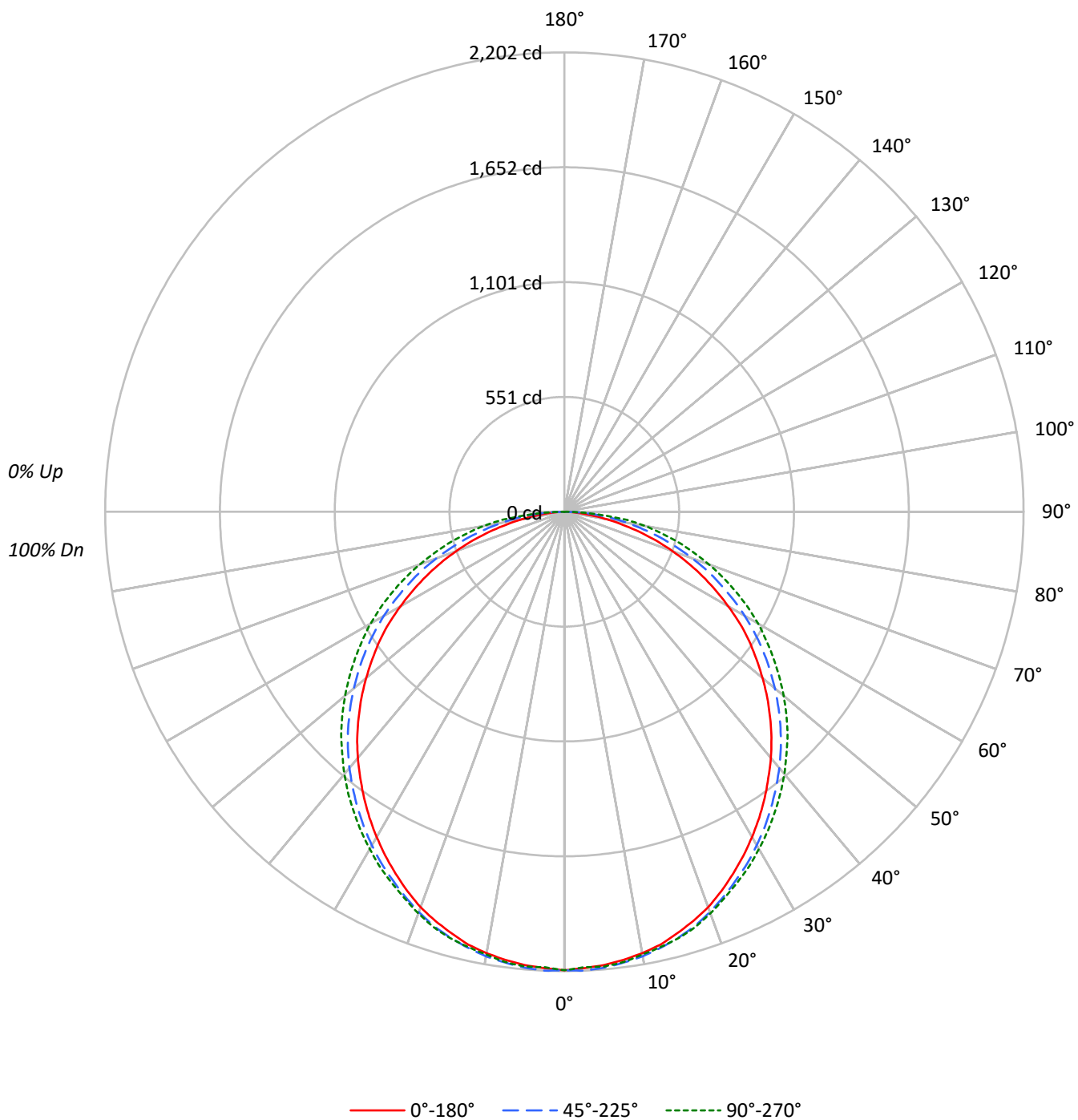
Lumens per Lamp: N/A
Luminaire Lumens: 6413.0 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1589965

CATALOG NUMBER: 24CZSP-SB-65VHE-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°	3366	3366	3366
5°	3354	3372	3364
10°	3342	3365	3352
15°	3317	3351	3355
20°	3288	3327	3338
25°	3234	3292	3315
30°	3183	3265	3301
35°	3132	3233	3289
40°	3080	3205	3281
45°	3022	3175	3278
50°	2956	3140	3270
55°	2889	3106	3269
60°	2781	3060	3289
65°	2651	3001	3291
70°	2474	2918	3300
75°	2201	2812	3358
80°	1808	2694	3484
85°	1193	2529	3149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3567 cd/sqm

TEST NUMBER: P1589965

CATALOG NUMBER: 24CZSP-SB-65VHE-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.9	3.2
10°-20°	595.0	9.3
20°-30°	896.8	14.0
30°-40°	1080.0	16.8
40°-50°	1128.3	17.6
50°-60°	1036.6	16.2
60°-70°	816.3	12.7
70°-80°	500.5	7.8
80°-90°	151.7	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°	1699.7	26.5
0°-40°	2779.6	43.3
0°-60°	4944.5	77.1
0°-90°	6413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6413.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2198	2198	2198	2198	2198	
5°	2181	2185	2193	2191	2188	207
15°	2092	2100	2113	2122	2116	590
25°	1914	1926	1948	1968	1961	882
35°	1675	1697	1729	1760	1759	1048
45°	1395	1425	1466	1507	1513	1076
55°	1082	1113	1163	1213	1224	965
65°	732	770	828	884	908	723
75°	372	415	475	532	567	395
85°	68	100	144	160	179	87
90°	0	0	0	0	0	

TEST NUMBER: P1589965

CATALOG NUMBER: 24CZSP-SB-65VHE-L935

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2197.5	2197.5	2197.5	2197.5	2197.5
2.5°	2189.3	2194.8	2201.6	2190.7	2185.3
5°	2181.2	2185.3	2193.4	2190.7	2188.0
7.5°	2166.3	2169.0	2179.8	2179.8	2177.1
10°	2148.6	2154.0	2163.5	2162.2	2155.4
12.5°	2125.5	2129.6	2140.5	2140.5	2136.4
15°	2091.6	2099.8	2113.3	2121.5	2116.0
17.5°	2056.3	2064.5	2082.1	2090.3	2087.5
20°	2017.0	2023.7	2041.4	2053.6	2048.2
22.5°	1968.1	1976.2	1996.6	2010.2	2004.7
25°	1913.8	1926.0	1947.7	1968.1	1961.3
27.5°	1859.5	1873.1	1900.2	1920.6	1917.9
30°	1799.8	1817.4	1845.9	1871.7	1866.3
32.5°	1738.7	1759.1	1788.9	1816.1	1814.7
35°	1674.9	1696.6	1729.2	1760.4	1759.1
37.5°	1607.1	1632.8	1666.8	1700.7	1702.1
40°	1540.5	1565.0	1603.0	1639.6	1641.0
42.5°	1470.0	1495.8	1536.5	1574.5	1575.8
45°	1395.3	1425.2	1465.9	1506.6	1513.4
47.5°	1319.3	1350.5	1392.6	1436.0	1444.2
50°	1240.6	1273.2	1317.9	1364.1	1372.2
52.5°	1160.5	1194.4	1240.6	1286.7	1298.9
55°	1081.8	1113.0	1163.2	1213.4	1224.3
57.5°	999.0	1027.5	1081.8	1134.7	1148.3
60°	908.0	943.3	999.0	1051.9	1073.6
62.5°	819.8	857.8	914.8	967.8	992.2
65°	731.6	769.6	828.0	883.6	908.0
67.5°	642.0	681.4	743.8	796.7	823.9
70°	552.4	591.8	651.5	708.5	737.0
72.5°	462.8	504.9	563.3	621.6	650.1
75°	371.9	415.3	475.1	532.1	567.4
77.5°	286.4	328.5	388.2	446.6	476.4
80°	205.0	247.0	305.4	363.8	395.0
82.5°	130.3	169.7	226.7	275.5	304.0
85°	67.9	100.4	143.9	160.2	179.2
87.5°	20.4	39.4	55.6	62.4	77.4
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	15.7	17.4	16.1	17.7	18.0	16.5	18.1	16.8	18.5	18.8
	3H	17.5	19.0	17.9	19.3	19.7	18.6	20.1	18.9	20.4	20.8
	4H	18.1	19.5	18.5	19.9	20.3	19.5	20.9	19.9	21.2	21.6
	6H	18.5	19.9	18.9	20.2	20.6	20.2	21.5	20.6	21.9	22.3
	8H	18.6	19.9	19.1	20.3	20.7	20.5	21.8	21.0	22.2	22.6
	12H	18.7	19.9	19.1	20.3	20.7	20.7	22.0	21.2	22.3	22.8
4H	2H	16.5	17.9	16.9	18.3	18.6	17.1	18.5	17.5	18.8	19.2
	3H	18.5	19.7	18.9	20.1	20.5	19.4	20.6	19.8	21.0	21.4
	4H	19.2	20.3	19.7	20.7	21.2	20.4	21.5	20.9	21.9	22.4
	6H	19.8	20.7	20.2	21.2	21.6	21.4	22.3	21.8	22.8	23.2
	8H	19.9	20.8	20.4	21.3	21.7	21.8	22.6	22.2	23.1	23.6
	12H	20.0	20.8	20.5	21.3	21.8	22.0	22.8	22.5	23.3	23.8
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	22.6	22.3	23.1	23.5
	8H	20.6	21.3	21.1	21.8	22.3	22.3	23.0	22.8	23.5	24.0
	12H	20.7	21.3	21.3	21.8	22.4	22.7	23.3	23.2	23.8	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	22.6	22.4	23.0	23.6
	8H	20.8	21.4	21.3	21.9	22.4	22.4	23.0	22.9	23.5	24.1

(END OF REPORT)