

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: P1589964

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589964
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-65VHE-L935-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 7000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

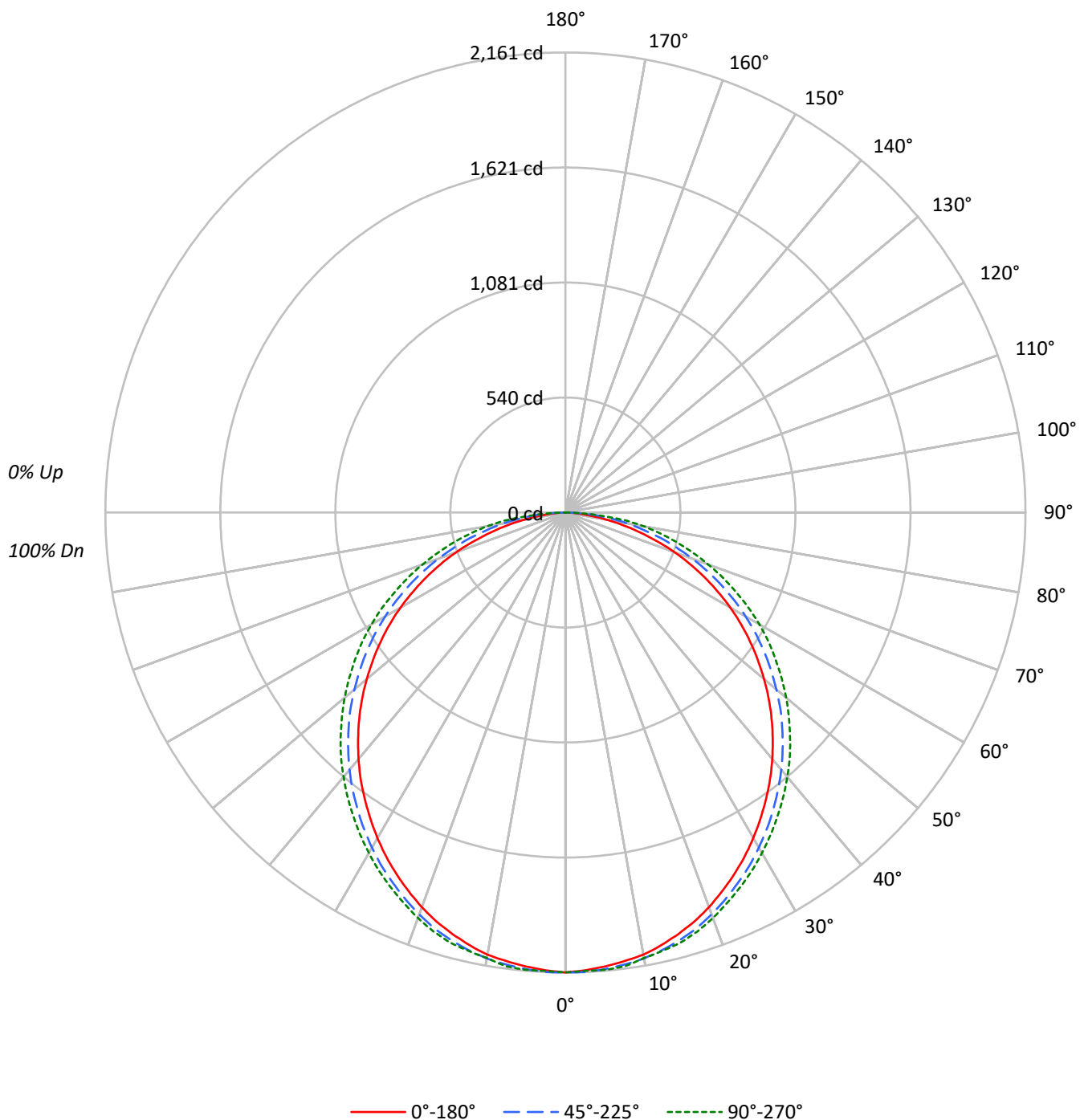
Lumens per Lamp: N/A
Luminaire Lumens: 6285.0 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	3309	3309	3309
5°	3291	3309	3316
10°	3280	3308	3306
15°	3250	3297	3317
20°	3215	3275	3303
25°	3169	3242	3283
30°	3123	3214	3266
35°	3071	3183	3251
40°	3022	3155	3241
45°	2967	3122	3233
50°	2903	3083	3225
55°	2831	3044	3220
60°	2742	2999	3222
65°	2617	2935	3204
70°	2446	2846	3197
75°	2168	2736	3209
80°	1765	2599	3303
85°	1141	2401	2850

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3348 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.5	3.3
10°-20°	585.5	9.3
20°-30°	882.8	14.0
30°-40°	1062.2	16.9
40°-50°	1108.0	17.6
50°-60°	1015.6	16.2
60°-70°	797.5	12.7
70°-80°	485.4	7.7
80°-90°	143.6	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°	1672.7	26.6
0°-40°	2735.0	43.5
0°-60°	4858.5	77.3
0°-90°	6285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6285.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2161	2161	2161	2161	2161	
5°	2140	2154	2152	2150	2156	203
15°	2050	2070	2079	2082	2092	578
25°	1875	1901	1918	1931	1943	864
35°	1643	1668	1702	1727	1739	1028
45°	1370	1398	1441	1475	1493	1056
55°	1060	1087	1140	1186	1206	947
65°	722	749	810	864	884	714
75°	366	400	462	518	542	388
85°	65	92	137	153	162	85
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2160.6	2160.6	2160.6	2160.6	2160.6
2.5°	2152.5	2163.3	2160.6	2151.1	2155.2
5°	2140.3	2153.8	2152.5	2149.7	2156.5
7.5°	2125.4	2140.3	2141.6	2141.6	2149.7
10°	2109.2	2124.1	2126.8	2122.7	2125.4
12.5°	2082.1	2099.7	2105.1	2105.1	2109.2
15°	2049.7	2070.0	2079.4	2082.1	2091.6
17.5°	2014.5	2036.2	2048.3	2055.1	2063.2
20°	1972.6	1995.6	2009.1	2017.2	2026.7
22.5°	1925.3	1951.0	1965.9	1974.0	1984.8
25°	1875.3	1901.0	1918.5	1930.7	1942.9
27.5°	1822.6	1846.9	1871.2	1886.1	1896.9
30°	1765.8	1791.5	1817.1	1836.1	1846.9
32.5°	1704.9	1732.0	1761.7	1782.0	1794.2
35°	1642.7	1668.4	1702.2	1726.6	1738.7
37.5°	1579.2	1606.2	1641.4	1667.1	1681.9
40°	1511.6	1540.0	1577.8	1606.2	1621.1
42.5°	1441.3	1468.3	1510.2	1542.7	1560.3
45°	1369.6	1398.0	1441.3	1475.1	1492.7
47.5°	1295.3	1322.3	1369.6	1408.8	1423.7
50°	1218.2	1243.9	1293.9	1335.8	1353.4
52.5°	1139.8	1166.8	1216.8	1261.5	1280.4
55°	1060.0	1087.0	1139.8	1185.7	1206.0
57.5°	978.9	1005.9	1060.0	1107.3	1131.7
60°	895.1	922.1	978.9	1027.6	1051.9
62.5°	808.5	836.9	895.1	945.1	970.8
65°	722.0	749.0	809.9	864.0	884.2
67.5°	635.5	662.5	722.0	776.1	800.4
70°	546.2	577.3	635.5	692.2	713.9
72.5°	452.9	488.1	546.2	605.7	627.3
75°	366.4	400.2	462.4	517.8	542.2
77.5°	281.2	317.7	375.9	432.7	457.0
80°	200.1	235.3	294.7	348.8	374.5
82.5°	127.1	158.2	217.7	266.4	285.3
85°	64.9	91.9	136.6	152.8	162.2
87.5°	18.9	32.4	48.7	60.8	67.6
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	17.3	16.0	17.6	17.9	16.4	18.1	16.8	18.4	18.7
	3H	17.4	18.9	17.8	19.3	19.6	18.5	20.0	18.8	20.3	20.7
	4H	18.0	19.5	18.4	19.8	20.2	19.3	20.8	19.7	21.1	21.5
	6H	18.5	19.8	18.9	20.1	20.5	20.1	21.4	20.5	21.8	22.2
	8H	18.6	19.8	19.0	20.2	20.6	20.4	21.6	20.8	22.0	22.4
	12H	18.6	19.8	19.0	20.2	20.6	20.6	21.8	21.0	22.2	22.6
4H	2H	16.4	17.8	16.8	18.2	18.6	17.0	18.4	17.4	18.8	19.1
	3H	18.4	19.6	18.8	20.0	20.4	19.3	20.5	19.7	20.9	21.3
	4H	19.2	20.2	19.6	20.7	21.1	20.3	21.4	20.8	21.8	22.3
	6H	19.7	20.6	20.1	21.1	21.5	21.2	22.2	21.7	22.6	23.1
	8H	19.8	20.7	20.3	21.2	21.6	21.6	22.5	22.1	22.9	23.4
	12H	19.9	20.7	20.4	21.2	21.7	21.9	22.7	22.3	23.1	23.6
8H	4H	19.6	20.5	20.1	20.9	21.4	20.6	21.5	21.1	22.0	22.4
	6H	20.3	21.0	20.8	21.5	22.0	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	22.3	22.5	23.1	23.0	23.6	24.1
12H	4H	19.7	20.5	20.2	21.0	21.4	20.7	21.5	21.1	21.9	22.4
	6H	20.4	21.1	20.9	21.5	22.1	21.7	22.4	22.3	22.9	23.4
	8H	20.7	21.3	21.2	21.7	22.3	22.3	22.9	22.8	23.4	23.9

(END OF REPORT)