

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: P1589967

Luminaire Tested: 24CZSP-SB-65VHE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589967
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-L940
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 7000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

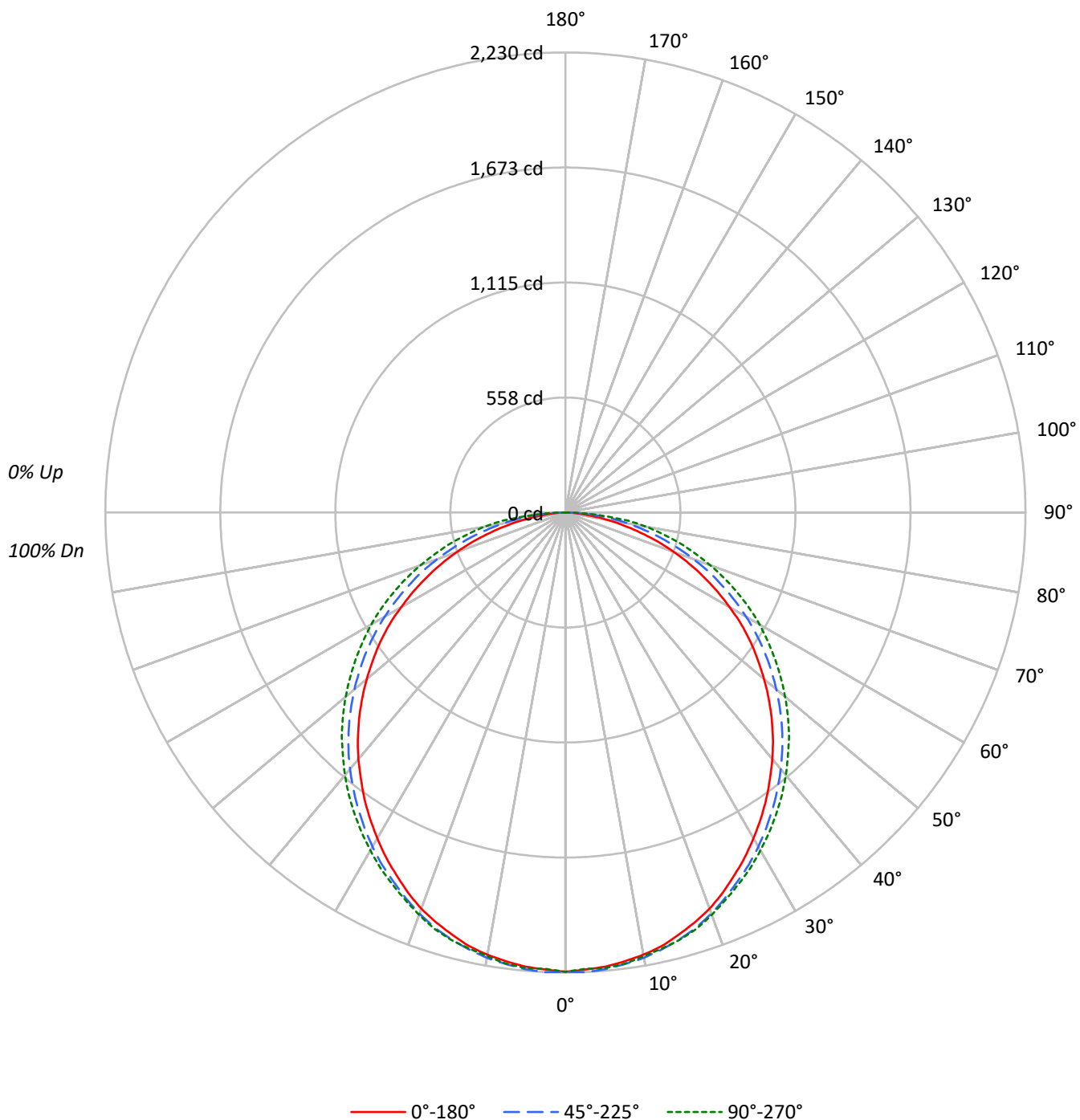
Lumens per Lamp: N/A
Luminaire Lumens: 6497.0 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3410	3410	3410
5°	3398	3416	3408
10°	3385	3409	3396
15°	3360	3395	3399
20°	3331	3371	3382
25°	3277	3335	3358
30°	3225	3307	3344
35°	3173	3276	3332
40°	3120	3247	3324
45°	3062	3217	3321
50°	2995	3181	3313
55°	2926	3147	3312
60°	2818	3100	3332
65°	2686	3040	3334
70°	2506	2956	3344
75°	2230	2848	3402
80°	1831	2729	3529
85°	1209	2562	3190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3614 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.6	3.2
10°-20°	602.8	9.3
20°-30°	908.5	14.0
30°-40°	1094.1	16.8
40°-50°	1143.1	17.6
50°-60°	1050.2	16.2
60°-70°	827.0	12.7
70°-80°	507.0	7.8
80°-90°	153.7	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°	1721.9	26.5
0°-40°	2816.0	43.3
0°-60°	5009.3	77.1
0°-90°	6497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2226	2226	2226	2226	2226	
5°	2210	2214	2222	2219	2217	210
15°	2119	2127	2141	2149	2144	598
25°	1939	1951	1973	1994	1987	894
35°	1697	1719	1752	1784	1782	1061
45°	1414	1444	1485	1526	1533	1090
55°	1096	1128	1178	1229	1240	978
65°	741	780	839	895	920	733
75°	377	421	481	539	575	400
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°	2226.3	2226.3	2226.3	2226.3	2226.3
2.5°	2218.0	2223.5	2230.4	2219.4	2213.9
5°	2209.8	2213.9	2222.1	2219.4	2216.6
7.5°	2194.6	2197.4	2208.4	2208.4	2205.6
10°	2176.8	2182.3	2191.9	2190.5	2183.6
12.5°	2153.4	2157.5	2168.5	2168.5	2164.4
15°	2119.0	2127.3	2141.0	2149.3	2143.8
17.5°	2083.3	2091.5	2109.4	2117.6	2114.9
20°	2043.4	2050.3	2068.1	2080.5	2075.0
22.5°	1993.9	2002.1	2022.7	2036.5	2031.0
25°	1938.9	1951.2	1973.2	1993.9	1987.0
27.5°	1883.9	1897.6	1925.1	1945.7	1943.0
30°	1823.4	1841.2	1870.1	1896.2	1890.7
32.5°	1761.5	1782.1	1812.4	1839.9	1838.5
35°	1696.9	1718.9	1751.9	1783.5	1782.1
37.5°	1628.1	1654.2	1688.6	1723.0	1724.4
40°	1560.7	1585.5	1624.0	1661.1	1662.5
42.5°	1489.2	1515.3	1556.6	1595.1	1596.5
45°	1413.6	1443.8	1485.1	1526.3	1533.2
47.5°	1336.6	1368.2	1410.8	1454.8	1463.1
50°	1256.8	1289.8	1335.2	1382.0	1390.2
52.5°	1175.7	1210.1	1256.8	1303.6	1316.0
55°	1095.9	1127.6	1178.4	1229.3	1240.3
57.5°	1012.1	1040.9	1095.9	1149.6	1163.3
60°	919.9	955.7	1012.1	1065.7	1087.7
62.5°	830.6	869.1	926.8	980.4	1005.2
65°	741.2	779.7	838.8	895.2	919.9
67.5°	650.4	690.3	753.5	807.2	834.7
70°	559.7	599.5	660.0	717.8	746.7
72.5°	468.9	511.5	570.7	629.8	658.7
75°	376.8	420.8	481.3	539.0	574.8
77.5°	290.1	332.8	393.3	452.4	482.7
80°	207.6	250.3	309.4	368.5	400.1
82.5°	132.0	171.9	229.6	279.1	308.0
85°	68.8	101.8	145.8	162.3	181.5
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	20.6	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)