

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: P1589884

Luminaire Tested: 24CZSP-SB-57HE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589884
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-57HE-L935-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

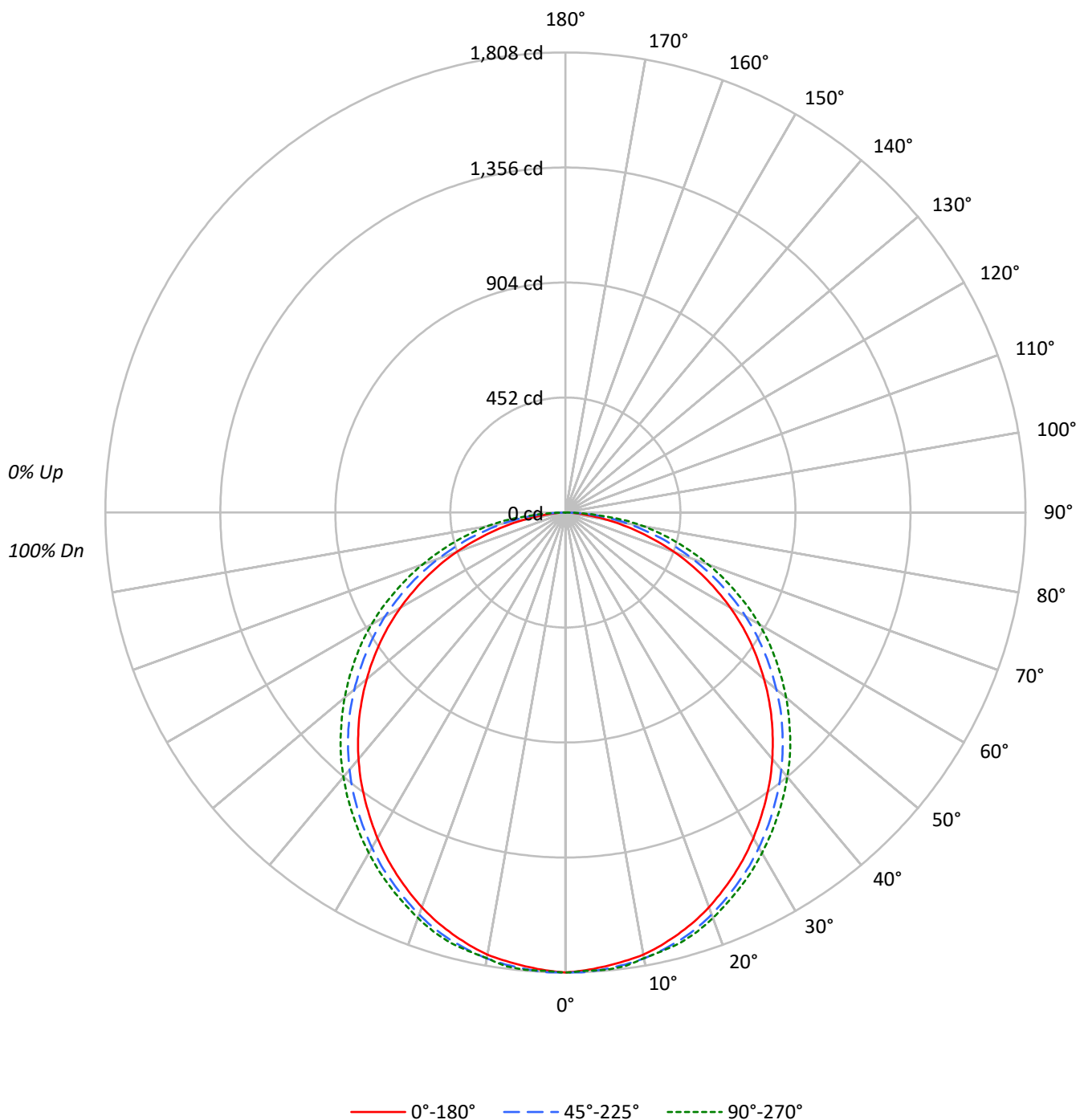
Lumens per Lamp: N/A
Luminaire Lumens: 5259.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 39.4
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°	2769	2769	2769
5°	2753	2769	2774
10°	2745	2768	2766
15°	2720	2759	2775
20°	2690	2740	2764
25°	2652	2713	2747
30°	2613	2689	2733
35°	2570	2663	2720
40°	2529	2640	2712
45°	2482	2612	2705
50°	2429	2580	2699
55°	2369	2547	2695
60°	2294	2509	2696
65°	2189	2456	2681
70°	2047	2381	2675
75°	1814	2290	2685
80°	1477	2175	2764
85°	954	2009	2386

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2801 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.1	3.3
10°-20°	489.9	9.3
20°-30°	738.7	14.0
30°-40°	888.8	16.9
40°-50°	927.1	17.6
50°-60°	849.8	16.2
60°-70°	667.3	12.7
70°-80°	406.1	7.7
80°-90°	120.1	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°	1399.7	26.6
0°-40°	2288.5	43.5
0°-60°	4065.4	77.3
0°-90°	5259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5259.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1808	1808	1808	1808	1808	
5°	1791	1802	1801	1799	1804	170
15°	1715	1732	1740	1742	1750	484
25°	1569	1591	1605	1616	1626	723
35°	1375	1396	1424	1445	1455	860
45°	1146	1170	1206	1234	1249	884
55°	887	910	954	992	1009	793
65°	604	627	678	723	740	598
75°	307	335	387	433	454	325
85°	54	77	114	128	136	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1807.9	1807.9	1807.9	1807.9	1807.9
2.5°	1801.1	1810.1	1807.9	1799.9	1803.3
5°	1790.9	1802.2	1801.1	1798.8	1804.5
7.5°	1778.4	1790.9	1792.0	1792.0	1798.8
10°	1764.9	1777.3	1779.6	1776.2	1778.4
12.5°	1742.2	1757.0	1761.5	1761.5	1764.9
15°	1715.1	1732.1	1740.0	1742.2	1750.2
17.5°	1685.7	1703.8	1714.0	1719.6	1726.4
20°	1650.6	1669.8	1681.2	1687.9	1695.9
22.5°	1611.0	1632.5	1645.0	1651.7	1660.8
25°	1569.2	1590.6	1605.4	1615.5	1625.7
27.5°	1525.0	1545.4	1565.8	1578.2	1587.3
30°	1477.5	1499.0	1520.5	1536.3	1545.4
32.5°	1426.6	1449.2	1474.1	1491.1	1501.3
35°	1374.6	1396.1	1424.3	1444.7	1454.9
37.5°	1321.4	1344.0	1373.4	1394.9	1407.4
40°	1264.8	1288.6	1320.3	1344.0	1356.5
42.5°	1206.0	1228.6	1263.7	1290.8	1305.6
45°	1146.0	1169.8	1206.0	1234.3	1249.0
47.5°	1083.8	1106.4	1146.0	1178.8	1191.3
50°	1019.3	1040.8	1082.7	1117.8	1132.5
52.5°	953.7	976.3	1018.2	1055.5	1071.4
55°	887.0	909.6	953.7	992.2	1009.1
57.5°	819.1	841.7	887.0	926.6	946.9
60°	748.9	771.6	819.1	859.8	880.2
62.5°	676.5	700.3	748.9	790.8	812.3
65°	604.1	626.8	677.7	722.9	739.9
67.5°	531.7	554.4	604.1	649.4	669.7
70°	457.1	483.1	531.7	579.2	597.3
72.5°	379.0	408.4	457.1	506.8	524.9
75°	306.6	334.9	386.9	433.3	453.7
77.5°	235.3	265.9	314.5	362.0	382.4
80°	167.4	196.9	246.6	291.9	313.4
82.5°	106.3	132.4	182.1	222.9	238.7
85°	54.3	76.9	114.3	127.8	135.8
87.5°	15.8	27.2	40.7	50.9	56.6
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	15.0	16.7	15.4	17.0	17.3	15.8	17.4	16.1	17.7	18.1
	3H	16.8	18.3	17.2	18.6	19.0	17.9	19.4	18.2	19.7	20.0
	4H	17.4	18.8	17.8	19.2	19.6	18.7	20.1	19.1	20.5	20.9
	6H	17.8	19.2	18.2	19.5	19.9	19.5	20.8	19.9	21.1	21.5
	8H	17.9	19.2	18.4	19.6	20.0	19.8	21.0	20.2	21.4	21.8
	12H	18.0	19.2	18.4	19.6	20.0	20.0	21.2	20.4	21.5	22.0
4H	2H	15.8	17.2	16.2	17.6	17.9	16.4	17.8	16.8	18.1	18.5
	3H	17.8	19.0	18.2	19.4	19.8	18.7	19.9	19.1	20.3	20.7
	4H	18.5	19.6	19.0	20.0	20.5	19.7	20.8	20.1	21.2	21.6
	6H	19.1	20.0	19.5	20.5	20.9	20.6	21.6	21.1	22.0	22.5
	8H	19.2	20.1	19.7	20.5	21.0	21.0	21.9	21.4	22.3	22.8
	12H	19.3	20.1	19.8	20.6	21.0	21.2	22.0	21.7	22.5	23.0
8H	4H	19.0	19.9	19.4	20.3	20.8	20.0	20.9	20.5	21.3	21.8
	6H	19.6	20.4	20.1	20.9	21.4	21.1	21.8	21.6	22.3	22.8
	8H	19.9	20.5	20.4	21.0	21.5	21.5	22.2	22.0	22.7	23.2
	12H	20.0	20.6	20.5	21.1	21.6	21.9	22.5	22.4	23.0	23.5
12H	4H	19.1	19.9	19.5	20.3	20.8	20.0	20.8	20.5	21.3	21.8
	6H	19.8	20.5	20.3	20.9	21.5	21.1	21.8	21.6	22.3	22.8
	8H	20.1	20.6	20.6	21.1	21.7	21.7	22.2	22.2	22.7	23.3

(END OF REPORT)