

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: P1589864

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589864
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-57-L935-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

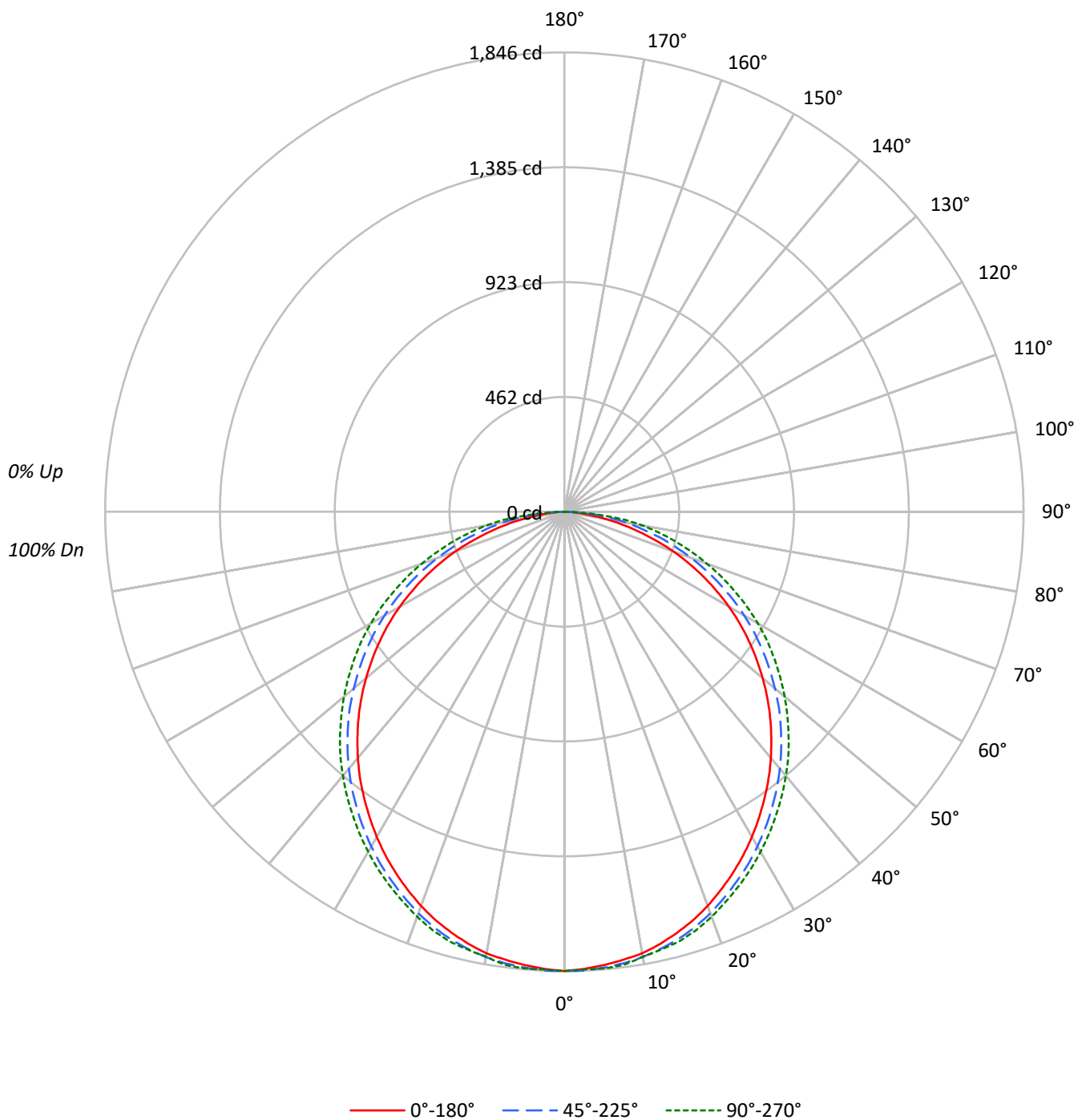
Lumens per Lamp: N/A
Luminaire Lumens: 5369.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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

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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°	2827	2827	2827
5°	2811	2827	2832
10°	2802	2826	2824
15°	2776	2817	2833
20°	2747	2797	2822
25°	2707	2770	2805
30°	2668	2745	2790
35°	2624	2719	2777
40°	2582	2695	2769
45°	2534	2667	2762
50°	2480	2634	2755
55°	2418	2600	2751
60°	2342	2561	2753
65°	2235	2507	2738
70°	2090	2431	2731
75°	1852	2338	2741
80°	1507	2221	2822
85°	974	2051	2436

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2860 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.7	3.3
10°-20°	500.2	9.3
20°-30°	754.1	14.0
30°-40°	907.4	16.9
40°-50°	946.5	17.6
50°-60°	867.6	16.2
60°-70°	681.3	12.7
70°-80°	414.6	7.7
80°-90°	122.7	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°	1429.0	26.6
0°-40°	2336.4	43.5
0°-60°	4150.4	77.3
0°-90°	5369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1846	1846	1846	1846	1846	
5°	1828	1840	1839	1836	1842	174
15°	1751	1768	1776	1779	1787	494
25°	1602	1624	1639	1649	1660	738
35°	1403	1425	1454	1475	1485	878
45°	1170	1194	1231	1260	1275	902
55°	906	929	974	1013	1030	809
65°	617	640	692	738	755	610
75°	313	342	395	442	463	332
85°	55	78	117	130	139	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1845.7	1845.7	1845.7	1845.7	1845.7
2.5°	1838.7	1848.0	1845.7	1837.6	1841.1
5°	1828.4	1839.9	1838.7	1836.4	1842.2
7.5°	1815.6	1828.4	1829.5	1829.5	1836.4
10°	1801.8	1814.5	1816.8	1813.3	1815.6
12.5°	1778.7	1793.7	1798.3	1798.3	1801.8
15°	1751.0	1768.3	1776.4	1778.7	1786.8
17.5°	1720.9	1739.4	1749.8	1755.6	1762.5
20°	1685.1	1704.8	1716.3	1723.2	1731.3
22.5°	1644.7	1666.7	1679.4	1686.3	1695.5
25°	1602.0	1623.9	1638.9	1649.3	1659.7
27.5°	1556.9	1577.7	1598.5	1611.2	1620.5
30°	1508.4	1530.4	1552.3	1568.5	1577.7
32.5°	1456.4	1479.5	1505.0	1522.3	1532.7
35°	1403.3	1425.3	1454.1	1474.9	1485.3
37.5°	1349.0	1372.1	1402.2	1424.1	1436.8
40°	1291.3	1315.5	1347.9	1372.1	1384.8
42.5°	1231.2	1254.3	1290.1	1317.8	1332.9
45°	1170.0	1194.3	1231.2	1260.1	1275.1
47.5°	1106.5	1129.6	1170.0	1203.5	1216.2
50°	1040.6	1062.6	1105.3	1141.1	1156.1
52.5°	973.7	996.8	1039.5	1077.6	1093.8
55°	905.5	928.6	973.7	1012.9	1030.3
57.5°	836.2	859.3	905.5	945.9	966.7
60°	764.6	787.7	836.2	877.8	898.6
62.5°	690.7	714.9	764.6	807.3	829.3
65°	616.8	639.9	691.8	738.0	755.4
67.5°	542.8	565.9	616.8	663.0	683.8
70°	466.6	493.2	542.8	591.4	609.8
72.5°	386.9	417.0	466.6	517.4	535.9
75°	313.0	341.9	395.0	442.4	463.2
77.5°	240.2	271.4	321.1	369.6	390.4
80°	170.9	201.0	251.8	298.0	319.9
82.5°	108.6	135.1	186.0	227.5	243.7
85°	55.4	78.5	116.7	130.5	138.6
87.5°	16.2	27.7	41.6	52.0	57.7
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	15.1	16.8	15.5	17.1	17.4	15.8	17.5	16.2	17.8	18.1
	3H	16.9	18.4	17.3	18.7	19.1	17.9	19.4	18.3	19.8	20.1
	4H	17.5	18.9	17.9	19.3	19.6	18.8	20.2	19.2	20.6	20.9
	6H	17.9	19.2	18.3	19.6	20.0	19.5	20.9	19.9	21.2	21.6
	8H	18.0	19.3	18.4	19.7	20.1	19.8	21.1	20.3	21.5	21.9
	12H	18.1	19.3	18.5	19.6	20.1	20.0	21.2	20.5	21.6	22.0
4H	2H	15.9	17.3	16.3	17.6	18.0	16.4	17.9	16.8	18.2	18.6
	3H	17.9	19.1	18.3	19.5	19.9	18.8	20.0	19.2	20.4	20.8
	4H	18.6	19.7	19.0	20.1	20.5	19.8	20.9	20.2	21.3	21.7
	6H	19.1	20.1	19.6	20.5	21.0	20.7	21.6	21.1	22.1	22.5
	8H	19.3	20.2	19.7	20.6	21.1	21.1	21.9	21.5	22.4	22.8
	12H	19.4	20.2	19.8	20.6	21.1	21.3	22.1	21.8	22.6	23.1
8H	4H	19.1	19.9	19.5	20.4	20.9	20.1	21.0	20.5	21.4	21.9
	6H	19.7	20.5	20.2	20.9	21.4	21.1	21.9	21.6	22.4	22.8
	8H	19.9	20.6	20.4	21.1	21.6	21.6	22.3	22.1	22.8	23.3
	12H	20.1	20.7	20.6	21.1	21.7	22.0	22.5	22.5	23.0	23.6
12H	4H	19.1	19.9	19.6	20.4	20.9	20.1	20.9	20.6	21.4	21.8
	6H	19.9	20.5	20.4	21.0	21.5	21.2	21.9	21.7	22.3	22.9
	8H	20.1	20.7	20.6	21.2	21.8	21.7	22.3	22.2	22.8	23.4

(END OF REPORT)