

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: P1589868

Luminaire Tested: 24CZSP-SB-57-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589868
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-L945-S
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

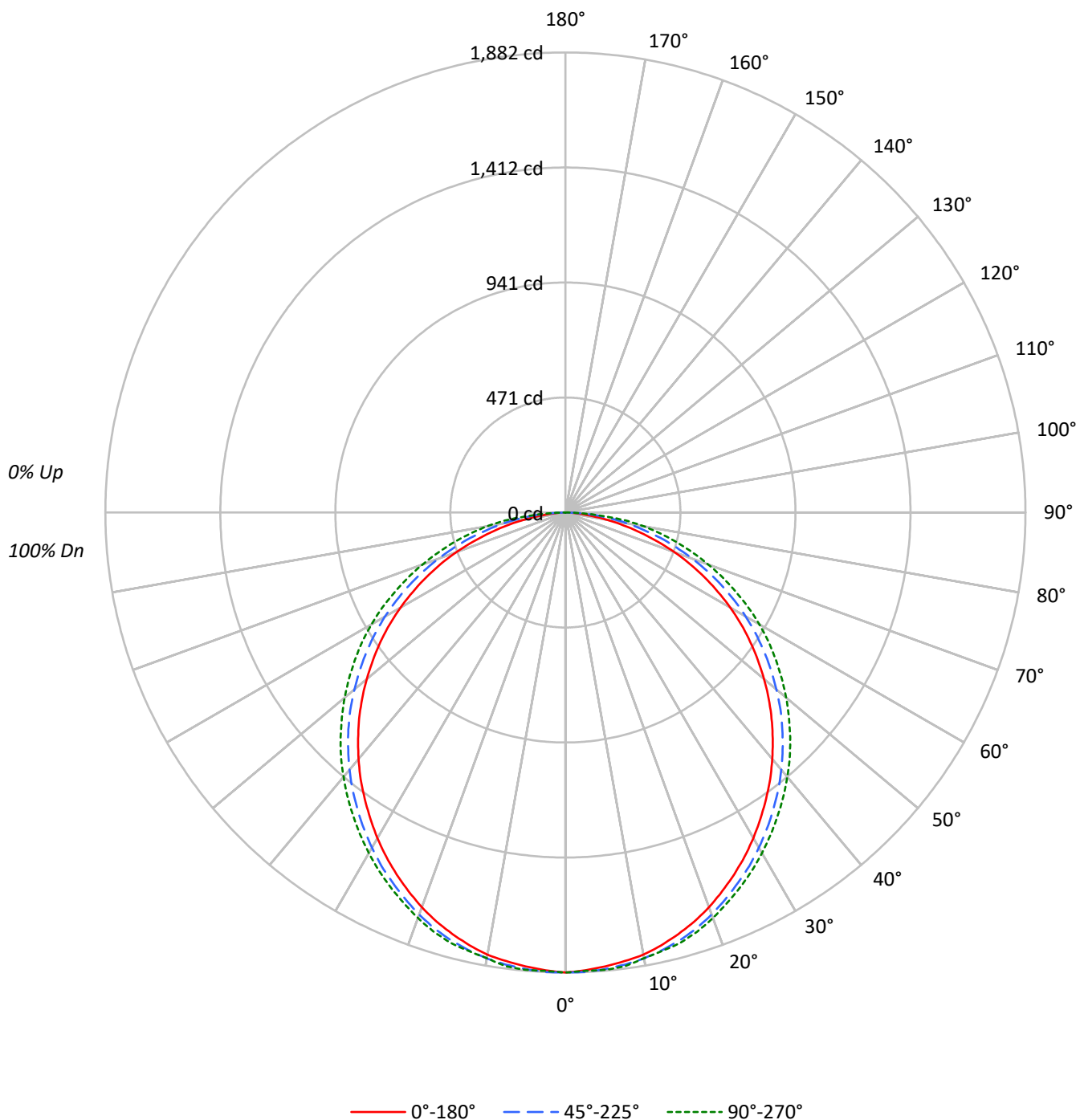
Lumens per Lamp: N/A
Luminaire Lumens: 5474.0 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2882	2882	2882
5°	2866	2882	2888
10°	2857	2881	2879
15°	2831	2872	2889
20°	2800	2852	2877
25°	2760	2824	2860
30°	2720	2799	2845
35°	2675	2772	2832
40°	2632	2748	2823
45°	2584	2719	2816
50°	2528	2685	2809
55°	2465	2651	2805
60°	2388	2612	2807
65°	2279	2556	2791
70°	2130	2479	2785
75°	1888	2383	2794
80°	1537	2264	2877
85°	993	2089	2483

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2916 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.1	3.3
10°-20°	510.0	9.3
20°-30°	768.9	14.0
30°-40°	925.2	16.9
40°-50°	965.0	17.6
50°-60°	884.5	16.2
60°-70°	694.6	12.7
70°-80°	422.7	7.7
80°-90°	125.1	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°	1456.9	26.6
0°-40°	2382.1	43.5
0°-60°	4231.6	77.3
0°-90°	5474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5474.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1882	1882	1882	1882	1882	
5°	1864	1876	1875	1872	1878	177
15°	1785	1803	1811	1814	1822	504
25°	1633	1656	1671	1682	1692	753
35°	1431	1453	1483	1504	1514	895
45°	1193	1218	1255	1285	1300	920
55°	923	947	993	1033	1050	825
65°	629	652	705	752	770	622
75°	319	349	403	451	472	338
85°	56	80	119	133	141	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1881.8	1881.8	1881.8	1881.8	1881.8
2.5°	1874.7	1884.1	1881.8	1873.5	1877.1
5°	1864.1	1875.9	1874.7	1872.4	1878.2
7.5°	1851.2	1864.1	1865.3	1865.3	1872.4
10°	1837.0	1850.0	1852.3	1848.8	1851.2
12.5°	1813.5	1828.8	1833.5	1833.5	1837.0
15°	1785.2	1802.9	1811.1	1813.5	1821.7
17.5°	1754.6	1773.4	1784.0	1789.9	1797.0
20°	1718.1	1738.1	1749.9	1756.9	1765.2
22.5°	1676.9	1699.2	1712.2	1719.3	1728.7
25°	1633.3	1655.7	1671.0	1681.6	1692.2
27.5°	1587.4	1608.6	1629.8	1642.7	1652.1
30°	1537.9	1560.3	1582.7	1599.2	1608.6
32.5°	1484.9	1508.5	1534.4	1552.0	1562.6
35°	1430.8	1453.1	1482.6	1503.8	1514.4
37.5°	1375.4	1399.0	1429.6	1452.0	1464.9
40°	1316.5	1341.3	1374.2	1399.0	1411.9
42.5°	1255.3	1278.9	1315.4	1343.6	1358.9
45°	1192.9	1217.6	1255.3	1284.7	1300.0
47.5°	1128.1	1151.7	1192.9	1227.0	1240.0
50°	1061.0	1083.4	1126.9	1163.4	1178.8
52.5°	992.7	1016.3	1059.8	1098.7	1115.2
55°	923.2	946.8	992.7	1032.7	1050.4
57.5°	852.6	876.1	923.2	964.4	985.6
60°	779.6	803.1	852.6	895.0	916.2
62.5°	704.2	728.9	779.6	823.1	845.5
65°	628.8	652.4	705.4	752.5	770.1
67.5°	553.5	577.0	628.8	675.9	697.1
70°	475.7	502.8	553.5	602.9	621.8
72.5°	394.5	425.1	475.7	527.6	546.4
75°	319.1	348.6	402.7	451.0	472.2
77.5°	244.9	276.7	327.4	376.8	398.0
80°	174.3	204.9	256.7	303.8	326.2
82.5°	110.7	137.8	189.6	232.0	248.5
85°	56.5	80.1	118.9	133.1	141.3
87.5°	16.5	28.3	42.4	53.0	58.9
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	15.2	16.8	15.5	17.2	17.5	15.9	17.6	16.3	17.9	18.2
	3H	16.9	18.5	17.3	18.8	19.1	18.0	19.5	18.4	19.8	20.2
	4H	17.6	19.0	18.0	19.3	19.7	18.9	20.3	19.3	20.6	21.0
	6H	18.0	19.3	18.4	19.7	20.0	19.6	20.9	20.0	21.3	21.7
	8H	18.1	19.3	18.5	19.7	20.1	19.9	21.2	20.3	21.5	21.9
	12H	18.1	19.3	18.6	19.7	20.1	20.1	21.3	20.5	21.7	22.1
4H	2H	15.9	17.4	16.3	17.7	18.1	16.5	17.9	16.9	18.3	18.7
	3H	17.9	19.1	18.3	19.5	19.9	18.8	20.0	19.2	20.4	20.8
	4H	18.7	19.8	19.1	20.2	20.6	19.8	20.9	20.3	21.3	21.8
	6H	19.2	20.2	19.7	20.6	21.1	20.8	21.7	21.2	22.1	22.6
	8H	19.3	20.2	19.8	20.7	21.1	21.1	22.0	21.6	22.5	22.9
	12H	19.4	20.2	19.9	20.7	21.2	21.4	22.2	21.9	22.7	23.1
8H	4H	19.1	20.0	19.6	20.5	20.9	20.1	21.0	20.6	21.5	21.9
	6H	19.8	20.5	20.3	21.0	21.5	21.2	21.9	21.7	22.4	22.9
	8H	20.0	20.7	20.5	21.2	21.7	21.7	22.3	22.2	22.8	23.3
	12H	20.1	20.7	20.6	21.2	21.8	22.0	22.6	22.5	23.1	23.7
12H	4H	19.2	20.0	19.7	20.5	20.9	20.2	21.0	20.7	21.4	21.9
	6H	19.9	20.6	20.4	21.1	21.6	21.3	21.9	21.8	22.4	22.9
	8H	20.2	20.8	20.7	21.3	21.8	21.8	22.4	22.3	22.9	23.4

(END OF REPORT)