

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: P1589863

Luminaire Tested: 24CZSP-SB-57-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589863
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-57-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

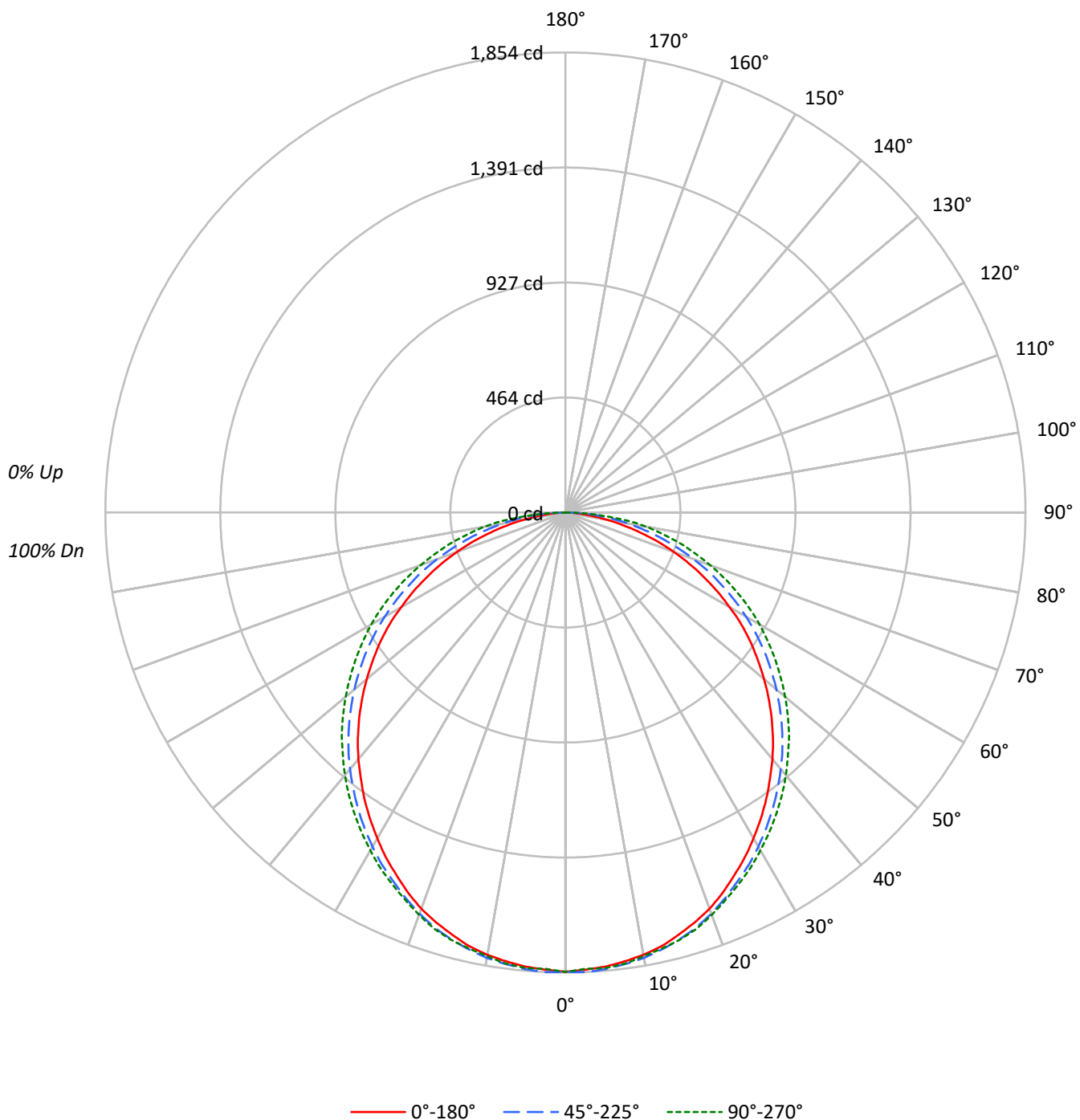
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5402.0 lumens
Efficiency: N/A
Efficacy: 132.1 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): 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	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°	2835	2835	2835
5°	2825	2841	2834
10°	2815	2834	2824
15°	2794	2823	2826
20°	2769	2803	2812
25°	2724	2773	2792
30°	2681	2750	2780
35°	2638	2724	2771
40°	2595	2700	2764
45°	2546	2675	2761
50°	2490	2645	2754
55°	2433	2616	2754
60°	2343	2578	2770
65°	2234	2527	2772
70°	2084	2458	2780
75°	1854	2368	2828
80°	1522	2269	2935
85°	1005	2130	2652

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3005 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	3.2
10°-20°	501.2	9.3
20°-30°	755.4	14.0
30°-40°	909.7	16.8
40°-50°	950.4	17.6
50°-60°	873.2	16.2
60°-70°	687.6	12.7
70°-80°	421.6	7.8
80°-90°	127.8	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°	1431.7	26.5
0°-40°	2341.4	43.3
0°-60°	4165.0	77.1
0°-90°	5402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5402.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1851	1851	1851	1851	1851	
5°	1837	1841	1848	1845	1843	174
15°	1762	1769	1780	1787	1782	497
25°	1612	1622	1641	1658	1652	743
35°	1411	1429	1457	1483	1482	882
45°	1175	1200	1235	1269	1275	907
55°	911	938	980	1022	1031	813
65°	616	648	697	744	765	609
75°	313	350	400	448	478	333
85°	57	85	121	135	151	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1851.0	1851.0	1851.0	1851.0	1851.0
2.5°	1844.2	1848.8	1854.5	1845.3	1840.8
5°	1837.3	1840.8	1847.6	1845.3	1843.0
7.5°	1824.8	1827.0	1836.2	1836.2	1833.9
10°	1809.9	1814.5	1822.5	1821.3	1815.6
12.5°	1790.5	1793.9	1803.0	1803.0	1799.6
15°	1761.9	1768.7	1780.2	1787.0	1782.4
17.5°	1732.1	1739.0	1753.9	1760.7	1758.4
20°	1699.0	1704.7	1719.6	1729.9	1725.3
22.5°	1657.8	1664.7	1681.8	1693.3	1688.7
25°	1612.1	1622.4	1640.7	1657.8	1652.1
27.5°	1566.4	1577.8	1600.7	1617.8	1615.5
30°	1516.1	1530.9	1554.9	1576.7	1572.1
32.5°	1464.6	1481.8	1506.9	1529.8	1528.6
35°	1410.9	1429.2	1456.6	1482.9	1481.8
37.5°	1353.7	1375.4	1404.0	1432.6	1433.7
40°	1297.7	1318.3	1350.3	1381.1	1382.3
42.5°	1238.2	1259.9	1294.2	1326.3	1327.4
45°	1175.3	1200.5	1234.8	1269.1	1274.8
47.5°	1111.3	1137.6	1173.1	1209.6	1216.5
50°	1045.0	1072.4	1110.2	1149.0	1155.9
52.5°	977.5	1006.1	1045.0	1083.9	1094.2
55°	911.2	937.5	979.8	1022.1	1031.3
57.5°	841.5	865.5	911.2	955.8	967.3
60°	764.9	794.6	841.5	886.1	904.4
62.5°	690.6	722.6	770.6	815.2	835.8
65°	616.3	648.3	697.4	744.3	764.9
67.5°	540.8	574.0	626.5	671.1	694.0
70°	465.3	498.5	548.8	596.8	620.8
72.5°	389.9	425.3	474.5	523.6	547.7
75°	313.3	349.9	400.2	448.2	477.9
77.5°	241.2	276.7	327.0	376.2	401.3
80°	172.6	208.1	257.2	306.4	332.7
82.5°	109.8	142.9	190.9	232.1	256.1
85°	57.2	84.6	121.2	134.9	150.9
87.5°	17.1	33.2	46.9	52.6	65.2
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	15.9	17.5	16.2	17.9	18.2
	3H	16.9	18.4	17.3	18.7	19.1	18.0	19.5	18.4	19.8	20.2
	4H	17.5	18.9	17.9	19.3	19.7	18.9	20.3	19.3	20.6	21.0
	6H	17.9	19.3	18.3	19.6	20.0	19.6	20.9	20.0	21.3	21.7
	8H	18.0	19.3	18.5	19.7	20.1	19.9	21.2	20.4	21.6	22.0
	12H	18.1	19.3	18.5	19.7	20.1	20.2	21.4	20.6	21.7	22.2
4H	2H	15.9	17.3	16.3	17.7	18.0	16.5	17.9	16.9	18.3	18.6
	3H	17.9	19.1	18.3	19.5	19.9	18.8	20.0	19.2	20.4	20.8
	4H	18.7	19.7	19.1	20.2	20.6	19.8	20.9	20.3	21.3	21.8
	6H	19.2	20.1	19.6	20.6	21.0	20.8	21.7	21.2	22.2	22.6
	8H	19.3	20.2	19.8	20.7	21.1	21.2	22.1	21.6	22.5	23.0
	12H	19.4	20.2	19.9	20.7	21.2	21.4	22.2	21.9	22.7	23.2
8H	4H	19.1	20.0	19.6	20.4	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	22.0	21.7	22.5	22.9
	8H	20.0	20.7	20.5	21.2	21.7	21.7	22.4	22.2	22.9	23.4
	12H	20.1	20.7	20.7	21.2	21.8	22.1	22.7	22.6	23.2	23.7
12H	4H	19.2	20.0	19.7	20.5	20.9	20.2	21.0	20.7	21.5	21.9
	6H	19.9	20.6	20.4	21.1	21.6	21.3	22.0	21.8	22.4	23.0
	8H	20.2	20.8	20.7	21.3	21.8	21.8	22.4	22.3	22.9	23.5

(END OF REPORT)