

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: P1589867

Luminaire Tested: 24CZSP-SB-57-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589867
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-L940
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

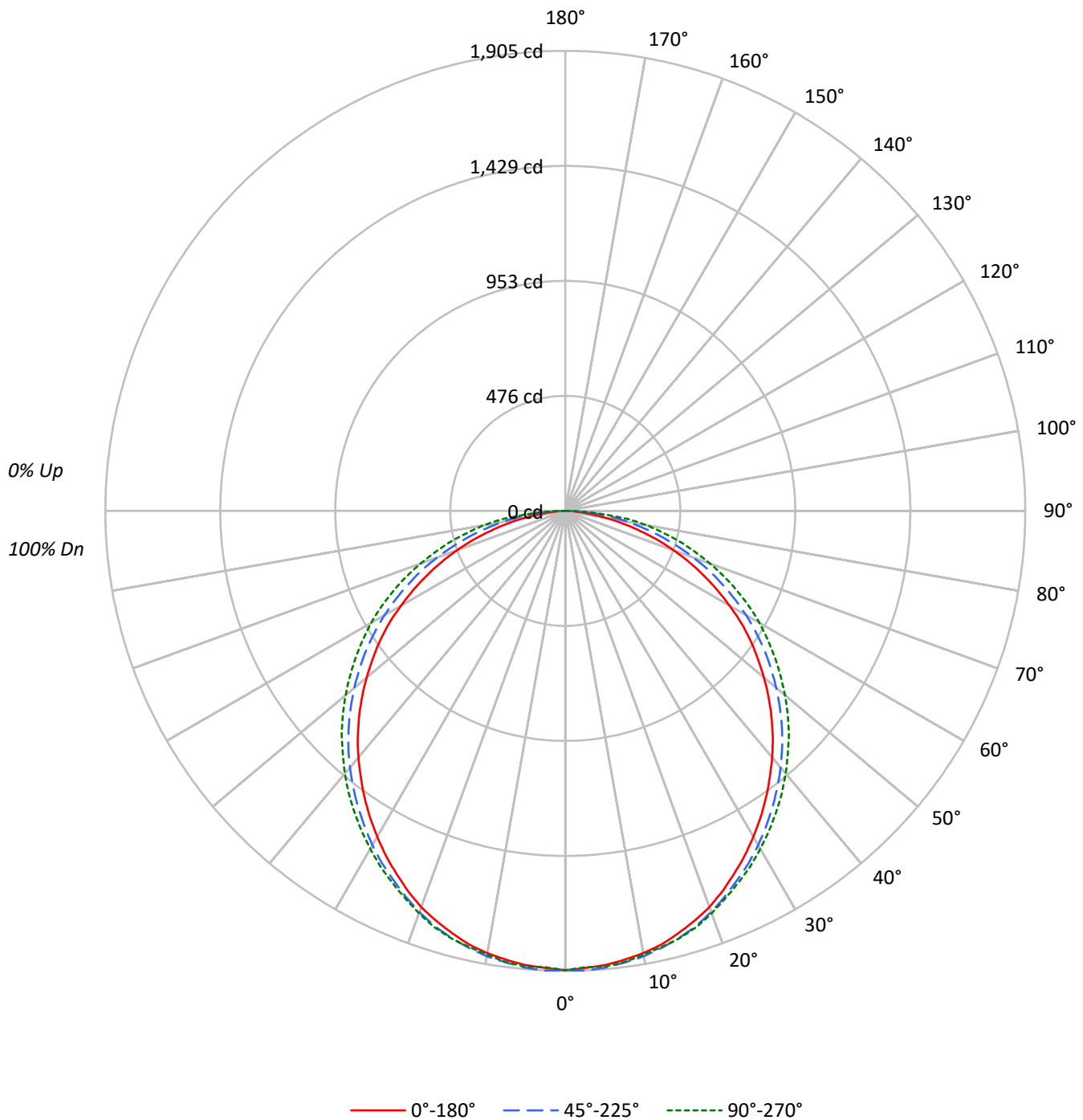
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5550.0 lumens
Efficiency: N/A
Efficacy: 135.7 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): 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°	2913	2913	2913
5°	2902	2918	2911
10°	2892	2912	2901
15°	2870	2900	2904
20°	2845	2880	2889
25°	2799	2849	2869
30°	2755	2825	2856
35°	2710	2798	2847
40°	2666	2774	2840
45°	2616	2748	2837
50°	2558	2718	2830
55°	2500	2688	2829
60°	2407	2648	2846
65°	2294	2597	2848
70°	2141	2525	2856
75°	1905	2433	2906
80°	1565	2331	3015
85°	1032	2188	2726

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3087 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	3.2
10°-20°	514.9	9.3
20°-30°	776.1	14.0
30°-40°	934.6	16.8
40°-50°	976.5	17.6
50°-60°	897.1	16.2
60°-70°	706.4	12.7
70°-80°	433.1	7.8
80°-90°	131.3	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°	1470.9	26.5
0°-40°	2405.6	43.3
0°-60°	4279.1	77.1
0°-90°	5550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1902	1902	1902	1902	1902	
5°	1888	1891	1898	1896	1894	179
15°	1810	1817	1829	1836	1831	511
25°	1656	1667	1686	1703	1697	764
35°	1450	1468	1496	1524	1522	907
45°	1208	1233	1269	1304	1310	931
55°	936	963	1007	1050	1060	835
65°	633	666	716	765	786	626
75°	322	359	411	460	491	342
85°	59	87	124	139	155	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1901.8	1901.8	1901.8	1901.8	1901.8
2.5°	1894.7	1899.4	1905.3	1895.9	1891.2
5°	1887.7	1891.2	1898.2	1895.9	1893.5
7.5°	1874.7	1877.1	1886.5	1886.5	1884.1
10°	1859.5	1864.2	1872.4	1871.2	1865.3
12.5°	1839.5	1843.0	1852.4	1852.4	1848.9
15°	1810.1	1817.2	1828.9	1836.0	1831.3
17.5°	1779.6	1786.6	1801.9	1809.0	1806.6
20°	1745.5	1751.4	1766.7	1777.2	1772.6
22.5°	1703.2	1710.3	1727.9	1739.7	1735.0
25°	1656.3	1666.8	1685.6	1703.2	1697.4
27.5°	1609.3	1621.0	1644.5	1662.1	1659.8
30°	1557.6	1572.9	1597.5	1619.8	1615.1
32.5°	1504.7	1522.4	1548.2	1571.7	1570.5
35°	1449.5	1468.3	1496.5	1523.5	1522.4
37.5°	1390.8	1413.1	1442.5	1471.8	1473.0
40°	1333.2	1354.4	1387.3	1419.0	1420.2
42.5°	1272.1	1294.5	1329.7	1362.6	1363.8
45°	1207.5	1233.4	1268.6	1303.9	1309.7
47.5°	1141.8	1168.8	1205.2	1242.8	1249.8
50°	1073.6	1101.8	1140.6	1180.5	1187.6
52.5°	1004.3	1033.7	1073.6	1113.6	1124.1
55°	936.2	963.2	1006.7	1050.1	1059.5
57.5°	864.5	889.2	936.2	982.0	993.8
60°	785.8	816.4	864.5	910.4	929.2
62.5°	709.5	742.4	791.7	837.5	858.7
65°	633.1	666.0	716.5	764.7	785.8
67.5°	555.6	589.7	643.7	689.5	713.0
70°	478.1	512.1	563.8	613.2	637.8
72.5°	400.6	437.0	487.5	538.0	562.7
75°	321.9	359.4	411.1	460.5	491.0
77.5°	247.9	284.3	336.0	386.5	412.3
80°	177.4	213.8	264.3	314.8	341.8
82.5°	112.8	146.8	196.2	238.5	263.1
85°	58.7	86.9	124.5	138.6	155.1
87.5°	17.6	34.1	48.2	54.0	67.0
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	16.9	15.6	17.2	17.5	16.0	17.6	16.3	18.0	18.3
	3H	17.0	18.5	17.4	18.8	19.2	18.1	19.6	18.4	19.9	20.3
	4H	17.6	19.0	18.0	19.4	19.8	19.0	20.4	19.4	20.7	21.1
	6H	18.0	19.3	18.4	19.7	20.1	19.7	21.0	20.1	21.4	21.8
	8H	18.1	19.4	18.6	19.8	20.2	20.0	21.3	20.5	21.7	22.1
	12H	18.2	19.4	18.6	19.8	20.2	20.2	21.5	20.7	21.8	22.3
4H	2H	16.0	17.4	16.4	17.8	18.1	16.6	18.0	17.0	18.3	18.7
	3H	18.0	19.2	18.4	19.6	20.0	18.9	20.1	19.3	20.5	20.9
	4H	18.7	19.8	19.2	20.2	20.7	19.9	21.0	20.4	21.4	21.9
	6H	19.3	20.2	19.7	20.7	21.1	20.9	21.8	21.3	22.3	22.7
	8H	19.4	20.3	19.9	20.8	21.2	21.3	22.1	21.7	22.6	23.1
	12H	19.5	20.3	20.0	20.8	21.3	21.5	22.3	22.0	22.8	23.3
8H	4H	19.2	20.1	19.7	20.5	21.0	20.2	21.1	20.7	21.6	22.0
	6H	19.9	20.6	20.4	21.1	21.6	21.3	22.1	21.8	22.6	23.0
	8H	20.1	20.8	20.6	21.3	21.8	21.8	22.5	22.3	23.0	23.5
	12H	20.2	20.8	20.7	21.3	21.9	22.2	22.8	22.7	23.3	23.8
12H	4H	19.3	20.1	19.8	20.6	21.0	20.3	21.1	20.7	21.5	22.0
	6H	20.0	20.7	20.5	21.1	21.7	21.4	22.1	21.9	22.5	23.1
	8H	20.3	20.9	20.8	21.4	21.9	21.9	22.5	22.4	23.0	23.6

(END OF REPORT)