

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: P1589870

Luminaire Tested: 24CZSP-SB-57-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589870
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-L950-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

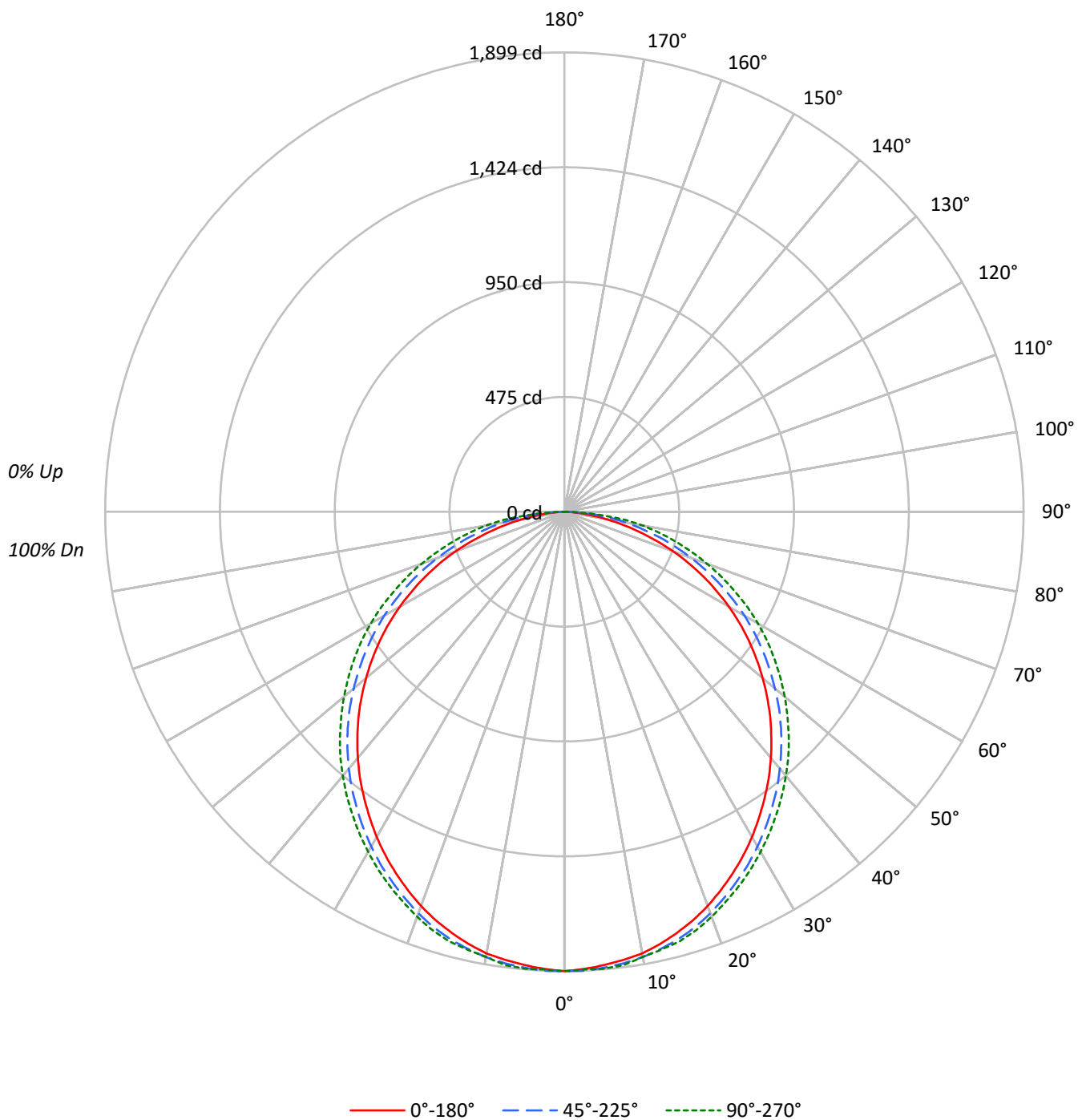
Lumens per Lamp: N/A
Luminaire Lumens: 5524.0 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2909	2909	2909
5°	2892	2909	2914
10°	2883	2907	2905
15°	2857	2898	2915
20°	2826	2878	2903
25°	2785	2850	2886
30°	2745	2825	2871
35°	2700	2797	2857
40°	2656	2773	2849
45°	2607	2744	2842
50°	2551	2710	2834
55°	2488	2675	2831
60°	2410	2636	2832
65°	2300	2580	2817
70°	2150	2501	2810
75°	1906	2405	2820
80°	1551	2285	2904
85°	1002	2109	2506

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2942 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	3.3
10°-20°	514.6	9.3
20°-30°	775.9	14.0
30°-40°	933.6	16.9
40°-50°	973.8	17.6
50°-60°	892.6	16.2
60°-70°	700.9	12.7
70°-80°	426.6	7.7
80°-90°	126.2	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°	1470.2	26.6
0°-40°	2403.8	43.5
0°-60°	4270.3	77.3
0°-90°	5524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5524.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1899	1899	1899	1899	1899	
5°	1881	1893	1892	1890	1895	179
15°	1802	1819	1828	1830	1838	508
25°	1648	1671	1686	1697	1708	760
35°	1444	1466	1496	1518	1528	904
45°	1204	1229	1267	1296	1312	928
55°	932	955	1002	1042	1060	833
65°	635	658	712	759	777	628
75°	322	352	406	455	476	341
85°	57	81	120	134	143	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1899.0	1899.0	1899.0	1899.0	1899.0
2.5°	1891.8	1901.3	1899.0	1890.6	1894.2
5°	1881.1	1893.0	1891.8	1889.5	1895.4
7.5°	1868.1	1881.1	1882.3	1882.3	1889.5
10°	1853.8	1866.9	1869.3	1865.7	1868.1
12.5°	1830.0	1845.5	1850.2	1850.2	1853.8
15°	1801.5	1819.3	1827.7	1830.0	1838.4
17.5°	1770.6	1789.6	1800.3	1806.3	1813.4
20°	1733.8	1754.0	1765.9	1773.0	1781.3
22.5°	1692.2	1714.8	1727.8	1735.0	1744.5
25°	1648.2	1670.8	1686.2	1696.9	1707.6
27.5°	1601.9	1623.3	1644.7	1657.7	1667.2
30°	1552.0	1574.5	1597.1	1613.8	1623.3
32.5°	1498.5	1522.3	1548.4	1566.2	1576.9
35°	1443.8	1466.4	1496.1	1517.5	1528.2
37.5°	1388.0	1411.7	1442.6	1465.2	1478.3
40°	1328.6	1353.5	1386.8	1411.7	1424.8
42.5°	1266.8	1290.5	1327.4	1355.9	1371.3
45°	1203.8	1228.7	1266.8	1296.5	1311.9
47.5°	1138.4	1162.2	1203.8	1238.2	1251.3
50°	1070.7	1093.3	1137.2	1174.1	1189.5
52.5°	1001.8	1025.5	1069.5	1108.7	1125.4
55°	931.7	955.4	1001.8	1042.2	1060.0
57.5°	860.4	884.1	931.7	973.2	994.6
60°	786.7	810.4	860.4	903.1	924.5
62.5°	710.6	735.6	786.7	830.6	853.2
65°	634.6	658.3	711.8	759.3	777.2
67.5°	558.5	582.3	634.6	682.1	703.5
70°	480.1	507.4	558.5	608.4	627.4
72.5°	398.1	429.0	480.1	532.4	551.4
75°	322.0	351.7	406.4	455.1	476.5
77.5°	247.2	279.3	330.4	380.3	401.7
80°	175.9	206.8	259.1	306.6	329.2
82.5°	111.7	139.0	191.3	234.1	250.7
85°	57.0	80.8	120.0	134.3	142.6
87.5°	16.6	28.5	42.8	53.5	59.4
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	15.9	17.6	16.3	17.9	18.2
	3H	17.0	18.5	17.4	18.8	19.2	18.0	19.5	18.4	19.9	20.2
	4H	17.6	19.0	18.0	19.4	19.7	18.9	20.3	19.3	20.7	21.0
	6H	18.0	19.3	18.4	19.7	20.1	19.6	21.0	20.0	21.3	21.7
	8H	18.1	19.4	18.5	19.8	20.2	19.9	21.2	20.4	21.6	22.0
	12H	18.2	19.4	18.6	19.7	20.2	20.1	21.3	20.6	21.7	22.1
4H	2H	16.0	17.4	16.4	17.7	18.1	16.5	18.0	16.9	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	19.1	20.2	20.6	19.9	21.0	20.3	21.4	21.8
	6H	19.2	20.2	19.7	20.6	21.1	20.8	21.7	21.2	22.2	22.6
	8H	19.4	20.3	19.8	20.7	21.2	21.2	22.0	21.6	22.5	22.9
	12H	19.5	20.3	19.9	20.7	21.2	21.4	22.2	21.9	22.7	23.2
8H	4H	19.2	20.0	19.6	20.5	21.0	20.2	21.1	20.6	21.5	22.0
	6H	19.8	20.6	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	20.2	20.8	20.7	21.2	21.8	22.1	22.6	22.6	23.1	23.7
12H	4H	19.2	20.0	19.7	20.5	21.0	20.2	21.0	20.7	21.5	21.9
	6H	20.0	20.6	20.5	21.1	21.6	21.3	22.0	21.8	22.4	23.0
	8H	20.2	20.8	20.7	21.3	21.9	21.8	22.4	22.3	22.9	23.5

(END OF REPORT)