

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: P1589891

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589891
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-57HE-L950
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 5500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

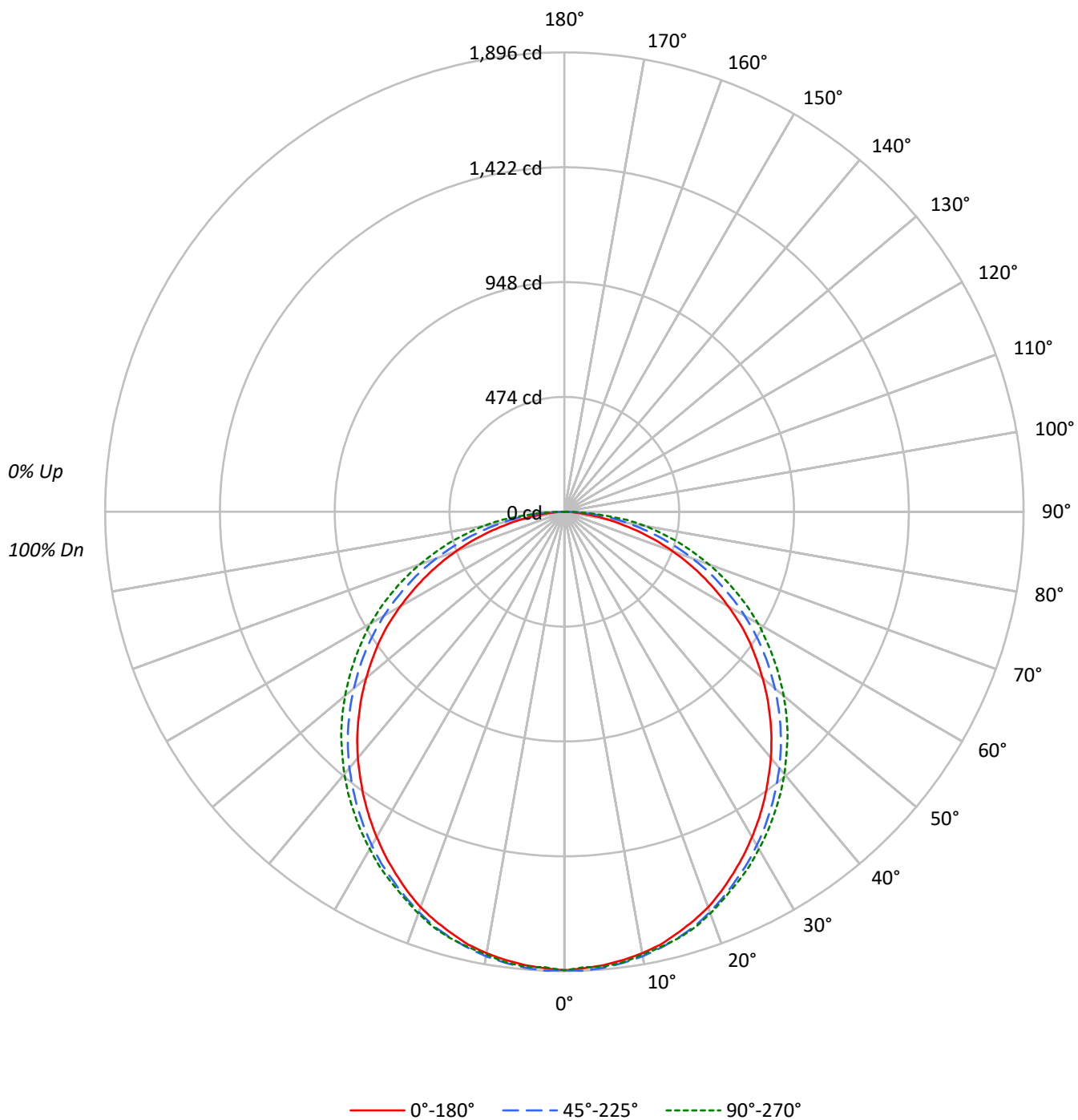
Lumens per Lamp: N/A
Luminaire Lumens: 5522.0 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 39.4
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°	2898	2898	2898
5°	2888	2904	2897
10°	2877	2897	2886
15°	2856	2885	2889
20°	2831	2865	2875
25°	2785	2834	2854
30°	2741	2811	2842
35°	2697	2784	2832
40°	2652	2760	2825
45°	2603	2734	2823
50°	2545	2704	2816
55°	2487	2675	2815
60°	2395	2635	2832
65°	2283	2584	2834
70°	2130	2512	2842
75°	1895	2421	2891
80°	1557	2320	3000
85°	1026	2177	2712

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3072 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	3.2
10°-20°	512.3	9.3
20°-30°	772.2	14.0
30°-40°	929.9	16.8
40°-50°	971.5	17.6
50°-60°	892.6	16.2
60°-70°	702.9	12.7
70°-80°	430.9	7.8
80°-90°	130.7	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°	1463.5	26.5
0°-40°	2393.4	43.3
0°-60°	4257.5	77.1
0°-90°	5522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1892	1892	1892	1892	1892	
5°	1878	1882	1889	1886	1884	178
15°	1801	1808	1820	1827	1822	508
25°	1648	1658	1677	1695	1689	760
35°	1442	1461	1489	1516	1515	902
45°	1202	1227	1262	1297	1303	927
55°	932	958	1002	1045	1054	831
65°	630	663	713	761	782	623
75°	320	358	409	458	488	340
85°	58	86	124	138	154	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1892.2	1892.2	1892.2	1892.2	1892.2
2.5°	1885.2	1889.8	1895.7	1886.3	1881.6
5°	1878.1	1881.6	1888.7	1886.3	1884.0
7.5°	1865.3	1867.6	1877.0	1877.0	1874.6
10°	1850.1	1854.8	1863.0	1861.8	1855.9
12.5°	1830.2	1833.7	1843.1	1843.1	1839.6
15°	1801.0	1808.0	1819.7	1826.7	1822.0
17.5°	1770.6	1777.6	1792.8	1799.8	1797.5
20°	1736.7	1742.6	1757.8	1768.3	1763.6
22.5°	1694.7	1701.7	1719.2	1730.9	1726.2
25°	1647.9	1658.4	1677.1	1694.7	1688.8
27.5°	1601.2	1612.8	1636.2	1653.7	1651.4
30°	1549.7	1564.9	1589.5	1611.7	1607.0
32.5°	1497.1	1514.7	1540.4	1563.8	1562.6
35°	1442.2	1460.9	1489.0	1515.8	1514.7
37.5°	1383.8	1406.0	1435.2	1464.4	1465.6
40°	1326.5	1347.5	1380.3	1411.8	1413.0
42.5°	1265.7	1287.9	1323.0	1355.7	1356.9
45°	1201.5	1227.2	1262.2	1297.3	1303.1
47.5°	1136.0	1162.9	1199.1	1236.5	1243.5
50°	1068.2	1096.3	1134.8	1174.6	1181.6
52.5°	999.3	1028.5	1068.2	1108.0	1118.5
55°	931.5	958.4	1001.6	1044.8	1054.2
57.5°	860.2	884.7	931.5	977.1	988.7
60°	781.9	812.3	860.2	905.8	924.5
62.5°	705.9	738.6	787.7	833.3	854.3
65°	629.9	662.7	712.9	760.8	781.9
67.5°	552.8	586.7	640.5	686.0	709.4
70°	475.7	509.6	561.0	610.1	634.6
72.5°	398.5	434.8	485.0	535.3	559.8
75°	320.2	357.6	409.1	458.1	488.5
77.5°	246.6	282.8	334.3	384.5	410.2
80°	176.5	212.7	263.0	313.2	340.1
82.5°	112.2	146.1	195.2	237.3	261.8
85°	58.4	86.5	123.9	137.9	154.3
87.5°	17.5	33.9	47.9	53.8	66.6
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	17.9	18.2
	3H	17.0	18.5	17.3	18.8	19.2	18.1	19.6	18.4	19.9	20.2
	4H	17.6	19.0	18.0	19.4	19.7	18.9	20.4	19.3	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	18.5	19.8	20.2	20.0	21.3	20.4	21.7	22.1
	12H	18.2	19.4	18.6	19.8	20.2	20.2	21.4	20.7	21.8	22.2
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	22.2	22.7
	8H	19.4	20.3	19.9	20.7	21.2	21.2	22.1	21.7	22.6	23.0
	12H	19.5	20.3	20.0	20.8	21.2	21.5	22.3	22.0	22.8	23.3
8H	4H	19.2	20.1	19.6	20.5	21.0	20.2	21.1	20.7	21.6	22.0
	6H	19.9	20.6	20.3	21.1	21.6	21.3	22.1	21.8	22.5	23.0
	8H	20.1	20.7	20.6	21.3	21.7	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	19.7	20.5	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	22.0	21.9	22.5	23.0
	8H	20.3	20.9	20.8	21.4	21.9	21.9	22.5	22.4	23.0	23.6

(END OF REPORT)