

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: P1589890

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589890
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-57HE-L950-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 5500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

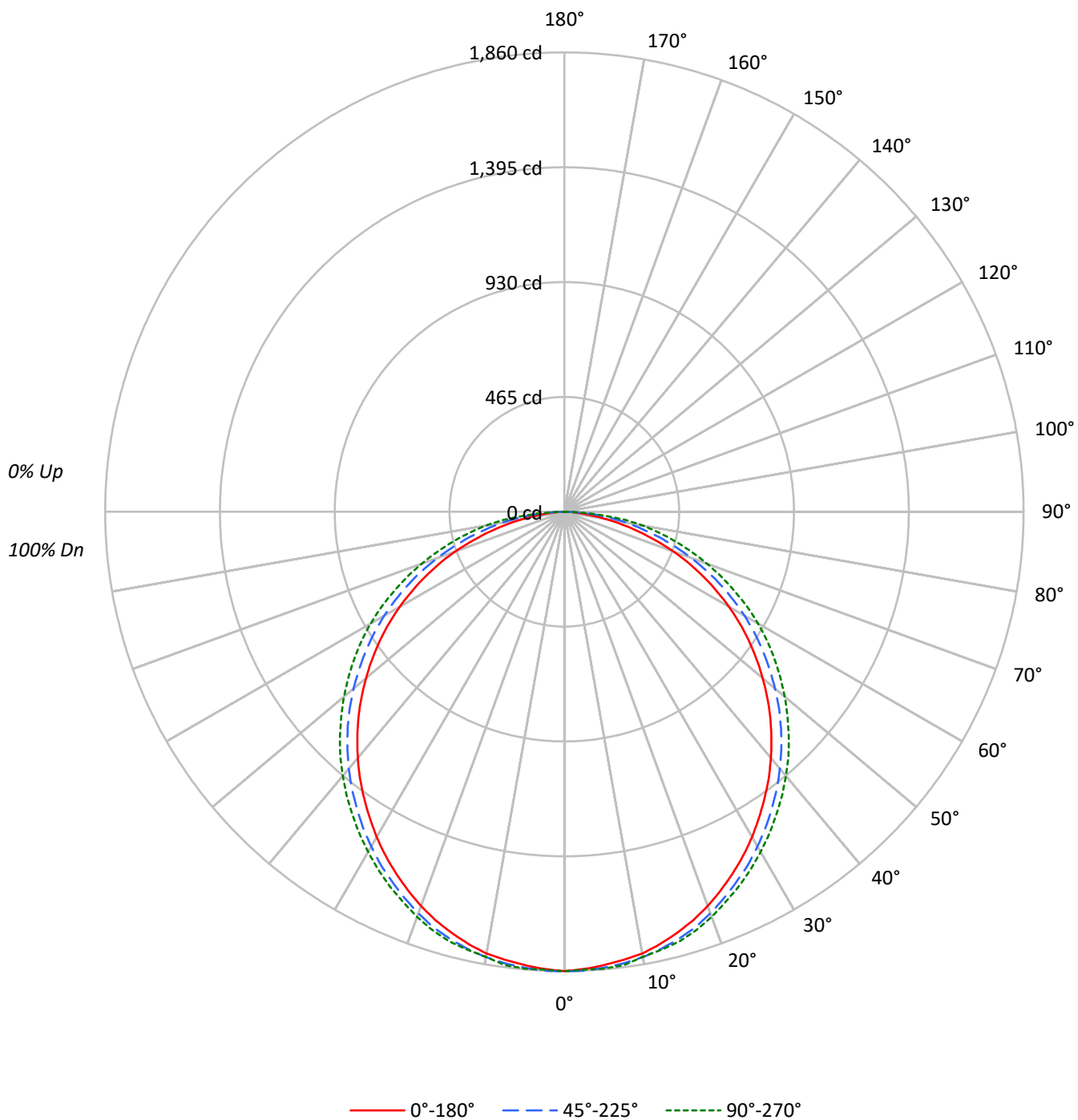
Lumens per Lamp: N/A
Luminaire Lumens: 5411.0 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2849	2849	2849
5°	2833	2849	2854
10°	2824	2848	2846
15°	2798	2839	2855
20°	2768	2819	2844
25°	2728	2791	2827
30°	2689	2767	2812
35°	2644	2740	2799
40°	2602	2716	2791
45°	2554	2688	2784
50°	2499	2654	2776
55°	2437	2620	2773
60°	2361	2582	2774
65°	2253	2527	2759
70°	2106	2450	2752
75°	1867	2356	2762
80°	1520	2239	2844
85°	982	2067	2455

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2882 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.0	3.3
10°-20°	504.1	9.3
20°-30°	760.0	14.0
30°-40°	914.5	16.9
40°-50°	953.9	17.6
50°-60°	874.4	16.2
60°-70°	686.6	12.7
70°-80°	417.9	7.7
80°-90°	123.6	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°	1440.1	26.6
0°-40°	2354.6	43.5
0°-60°	4182.9	77.3
0°-90°	5411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1860	1860	1860	1860	1860	
5°	1843	1854	1853	1851	1857	175
15°	1765	1782	1790	1793	1801	498
25°	1614	1637	1652	1662	1673	744
35°	1414	1436	1466	1486	1497	885
45°	1179	1204	1241	1270	1285	909
55°	913	936	981	1021	1038	815
65°	622	645	697	744	761	615
75°	316	345	398	446	467	334
85°	56	79	118	132	140	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1860.1	1860.1	1860.1	1860.1	1860.1
2.5°	1853.1	1862.4	1860.1	1852.0	1855.5
5°	1842.7	1854.3	1853.1	1850.8	1856.6
7.5°	1829.8	1842.7	1843.8	1843.8	1850.8
10°	1815.9	1828.7	1831.0	1827.5	1829.8
12.5°	1792.6	1807.7	1812.4	1812.4	1815.9
15°	1764.7	1782.1	1790.3	1792.6	1800.7
17.5°	1734.4	1753.0	1763.5	1769.3	1776.3
20°	1698.3	1718.1	1729.7	1736.7	1744.9
22.5°	1657.6	1679.7	1692.5	1699.5	1708.8
25°	1614.5	1636.6	1651.8	1662.2	1672.7
27.5°	1569.1	1590.1	1611.0	1623.8	1633.1
30°	1520.2	1542.3	1564.5	1580.7	1590.1
32.5°	1467.8	1491.1	1516.7	1534.2	1544.7
35°	1414.3	1436.4	1465.5	1486.5	1496.9
37.5°	1359.6	1382.9	1413.1	1435.2	1448.0
40°	1301.4	1325.8	1358.4	1382.9	1395.7
42.5°	1240.9	1264.1	1300.2	1328.2	1343.3
45°	1179.2	1203.6	1240.9	1270.0	1285.1
47.5°	1115.1	1138.4	1179.2	1212.9	1225.7
50°	1048.8	1070.9	1114.0	1150.1	1165.2
52.5°	981.3	1004.6	1047.6	1086.0	1102.3
55°	912.6	935.9	981.3	1020.9	1038.3
57.5°	842.8	866.0	912.6	953.3	974.3
60°	770.6	793.9	842.8	884.7	905.6
62.5°	696.1	720.5	770.6	813.7	835.8
65°	621.6	644.9	697.3	743.8	761.3
67.5°	547.1	570.4	621.6	668.2	689.1
70°	470.3	497.0	547.1	596.0	614.6
72.5°	389.9	420.2	470.3	521.5	540.1
75°	315.5	344.6	398.1	445.8	466.8
77.5°	242.1	273.5	323.6	372.5	393.4
80°	172.3	202.5	253.8	300.3	322.4
82.5°	109.4	136.2	187.4	229.3	245.6
85°	55.9	79.2	117.6	131.5	139.7
87.5°	16.3	27.9	41.9	52.4	58.2
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	17.8	18.2
	3H	16.9	18.4	17.3	18.7	19.1	18.0	19.5	18.3	19.8	20.1
	4H	17.5	18.9	17.9	19.3	19.7	18.8	20.2	19.2	20.6	21.0
	6H	17.9	19.3	18.3	19.6	20.0	19.6	20.9	20.0	21.2	21.6
	8H	18.0	19.3	18.5	19.7	20.1	19.9	21.1	20.3	21.5	21.9
	12H	18.1	19.3	18.5	19.7	20.1	20.0	21.3	20.5	21.6	22.1
4H	2H	15.9	17.3	16.3	17.7	18.0	16.5	17.9	16.9	18.2	18.6
	3H	17.9	19.1	18.3	19.5	19.9	18.8	20.0	19.2	20.4	20.8
	4H	18.6	19.7	19.1	20.1	20.6	19.8	20.9	20.2	21.3	21.7
	6H	19.2	20.1	19.6	20.6	21.0	20.7	21.7	21.2	22.1	22.6
	8H	19.3	20.2	19.8	20.6	21.1	21.1	22.0	21.5	22.4	22.9
	12H	19.4	20.2	19.9	20.7	21.1	21.3	22.1	21.8	22.6	23.1
8H	4H	19.1	20.0	19.5	20.4	20.9	20.1	21.0	20.6	21.4	21.9
	6H	19.7	20.5	20.2	21.0	21.5	21.2	21.9	21.7	22.4	22.9
	8H	20.0	20.6	20.5	21.1	21.6	21.6	22.3	22.1	22.8	23.3
	12H	20.1	20.7	20.6	21.2	21.7	22.0	22.6	22.5	23.1	23.6
12H	4H	19.2	20.0	19.6	20.4	20.9	20.1	20.9	20.6	21.4	21.9
	6H	19.9	20.6	20.4	21.0	21.6	21.2	21.9	21.7	22.4	22.9
	8H	20.1	20.7	20.7	21.2	21.8	21.8	22.3	22.3	22.8	23.4

(END OF REPORT)