

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: P1589860

Luminaire Tested: 24CZSP-SB-57-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589860
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-L850-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

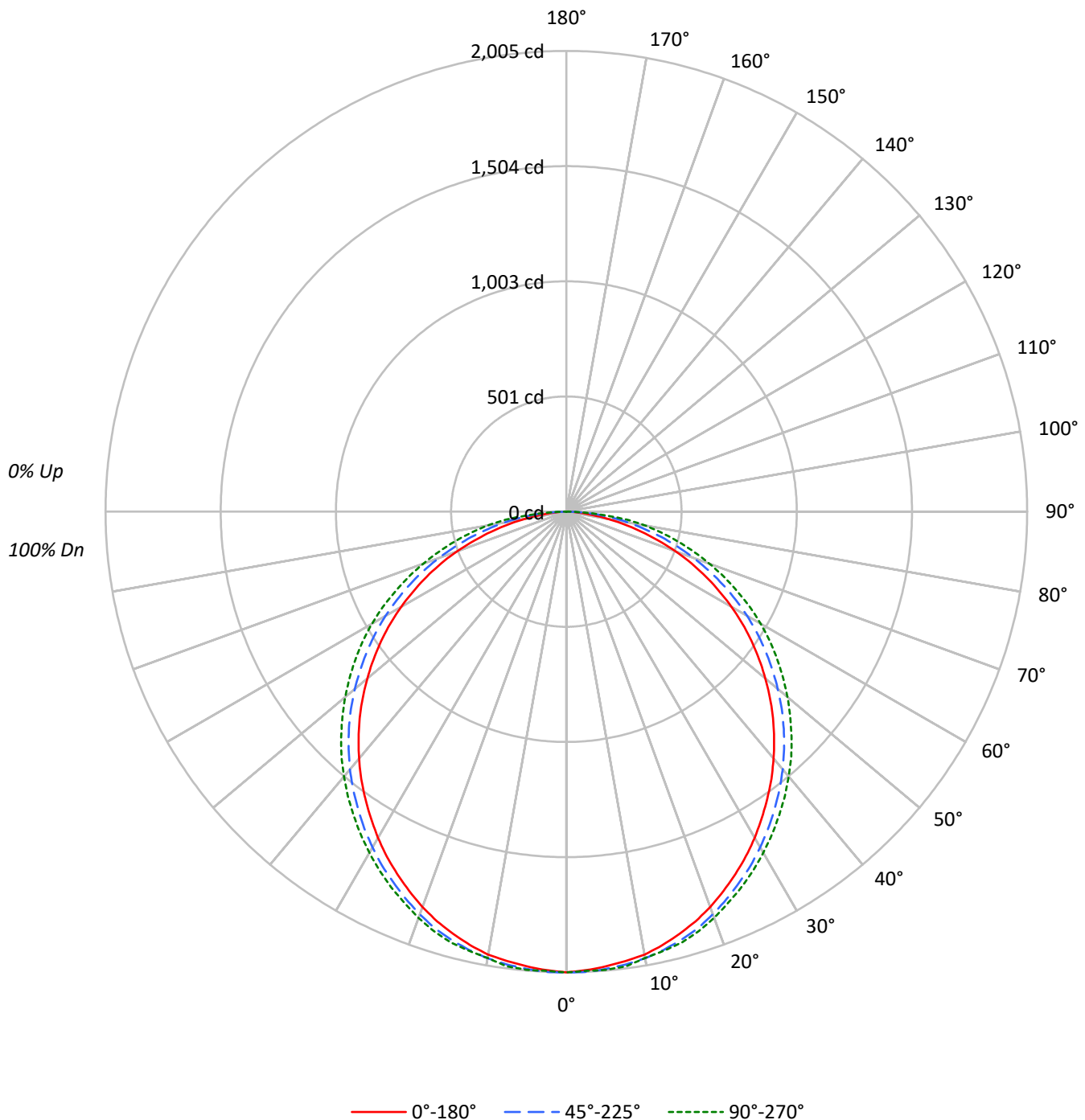
Lumens per Lamp: N/A
Luminaire Lumens: 5833.0 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3071	3071	3071
5°	3054	3071	3077
10°	3044	3070	3068
15°	3016	3060	3078
20°	2984	3039	3066
25°	2941	3009	3047
30°	2898	2983	3032
35°	2851	2954	3017
40°	2805	2928	3008
45°	2753	2897	3001
50°	2694	2861	2993
55°	2627	2825	2989
60°	2545	2783	2990
65°	2429	2724	2974
70°	2270	2641	2967
75°	2013	2539	2978
80°	1638	2412	3066
85°	1058	2227	2647

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.8	3.3
10°-20°	543.4	9.3
20°-30°	819.3	14.0
30°-40°	985.8	16.9
40°-50°	1028.3	17.6
50°-60°	942.6	16.2
60°-70°	740.2	12.7
70°-80°	450.5	7.7
80°-90°	133.3	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°	1552.5	26.6
0°-40°	2538.3	43.5
0°-60°	4509.1	77.3
0°-90°	5833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2005	2005	2005	2005	2005	
5°	1986	1999	1998	1995	2001	189
15°	1902	1921	1930	1932	1941	537
25°	1740	1764	1781	1792	1803	802
35°	1525	1548	1580	1602	1614	954
45°	1271	1298	1338	1369	1385	980
55°	984	1009	1058	1100	1119	879
65°	670	695	752	802	821	663
75°	340	371	429	481	503	361
85°	60	85	127	142	151	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2005.2	2005.2	2005.2	2005.2	2005.2
2.5°	1997.7	2007.7	2005.2	1996.4	2000.2
5°	1986.4	1998.9	1997.7	1995.1	2001.4
7.5°	1972.6	1986.4	1987.6	1987.6	1995.1
10°	1957.5	1971.3	1973.8	1970.0	1972.6
12.5°	1932.4	1948.7	1953.7	1953.7	1957.5
15°	1902.3	1921.1	1929.9	1932.4	1941.2
17.5°	1869.7	1889.7	1901.0	1907.3	1914.8
20°	1830.8	1852.1	1864.6	1872.2	1881.0
22.5°	1786.8	1810.7	1824.5	1832.0	1842.1
25°	1740.4	1764.3	1780.6	1791.9	1803.2
27.5°	1691.5	1714.1	1736.7	1750.5	1760.5
30°	1638.8	1662.6	1686.5	1704.0	1714.1
32.5°	1582.3	1607.4	1635.0	1653.8	1665.1
35°	1524.6	1548.4	1579.8	1602.4	1613.7
37.5°	1465.6	1490.7	1523.3	1547.2	1561.0
40°	1402.9	1429.2	1464.4	1490.7	1504.5
42.5°	1337.6	1362.7	1401.6	1431.7	1448.0
45°	1271.1	1297.5	1337.6	1369.0	1385.3
47.5°	1202.1	1227.2	1271.1	1307.5	1321.3
50°	1130.6	1154.4	1200.9	1239.8	1256.1
52.5°	1057.8	1082.9	1129.3	1170.7	1188.3
55°	983.8	1008.9	1057.8	1100.5	1119.3
57.5°	908.5	933.6	983.8	1027.7	1050.3
60°	830.7	855.8	908.5	953.7	976.2
62.5°	750.4	776.7	830.7	877.1	901.0
65°	670.1	695.2	751.6	801.8	820.6
67.5°	589.8	614.9	670.1	720.3	742.8
70°	506.9	535.8	589.8	642.5	662.5
72.5°	420.4	453.0	506.9	562.2	582.2
75°	340.1	371.4	429.1	480.6	503.2
77.5°	261.0	294.9	348.8	401.5	424.1
80°	185.7	218.3	273.5	323.7	347.6
82.5°	118.0	146.8	202.0	247.2	264.8
85°	60.2	85.3	126.7	141.8	150.6
87.5°	17.6	30.1	45.2	56.5	62.7
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	15.4	17.1	15.8	17.4	17.7	16.1	17.8	16.5	18.1	18.4
	3H	17.2	18.7	17.5	19.0	19.4	18.2	19.7	18.6	20.0	20.4
	4H	17.8	19.2	18.2	19.6	19.9	19.1	20.5	19.5	20.8	21.2
	6H	18.2	19.5	18.6	19.9	20.3	19.8	21.1	20.2	21.5	21.9
	8H	18.3	19.6	18.7	19.9	20.3	20.1	21.4	20.5	21.8	22.2
	12H	18.3	19.6	18.8	19.9	20.4	20.3	21.5	20.7	21.9	22.3
4H	2H	16.2	17.6	16.6	17.9	18.3	16.7	18.2	17.1	18.5	18.9
	3H	18.2	19.4	18.6	19.7	20.1	19.1	20.2	19.5	20.6	21.0
	4H	18.9	20.0	19.3	20.4	20.8	20.1	21.2	20.5	21.6	22.0
	6H	19.4	20.4	19.9	20.8	21.3	21.0	21.9	21.4	22.4	22.8
	8H	19.6	20.5	20.0	20.9	21.4	21.3	22.2	21.8	22.7	23.1
	12H	19.7	20.5	20.1	20.9	21.4	21.6	22.4	22.1	22.9	23.3
8H	4H	19.3	20.2	19.8	20.7	21.1	20.4	21.3	20.8	21.7	22.2
	6H	20.0	20.8	20.5	21.2	21.7	21.4	22.2	21.9	22.7	23.1
	8H	20.2	20.9	20.7	21.4	21.9	21.9	22.6	22.4	23.1	23.6
	12H	20.4	20.9	20.9	21.4	22.0	22.2	22.8	22.8	23.3	23.9
12H	4H	19.4	20.2	19.9	20.7	21.2	20.4	21.2	20.9	21.7	22.1
	6H	20.1	20.8	20.7	21.3	21.8	21.5	22.2	22.0	22.6	23.2
	8H	20.4	21.0	20.9	21.5	22.0	22.0	22.6	22.5	23.1	23.7

(END OF REPORT)