

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: P1589881

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589881
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-L850
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 5500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

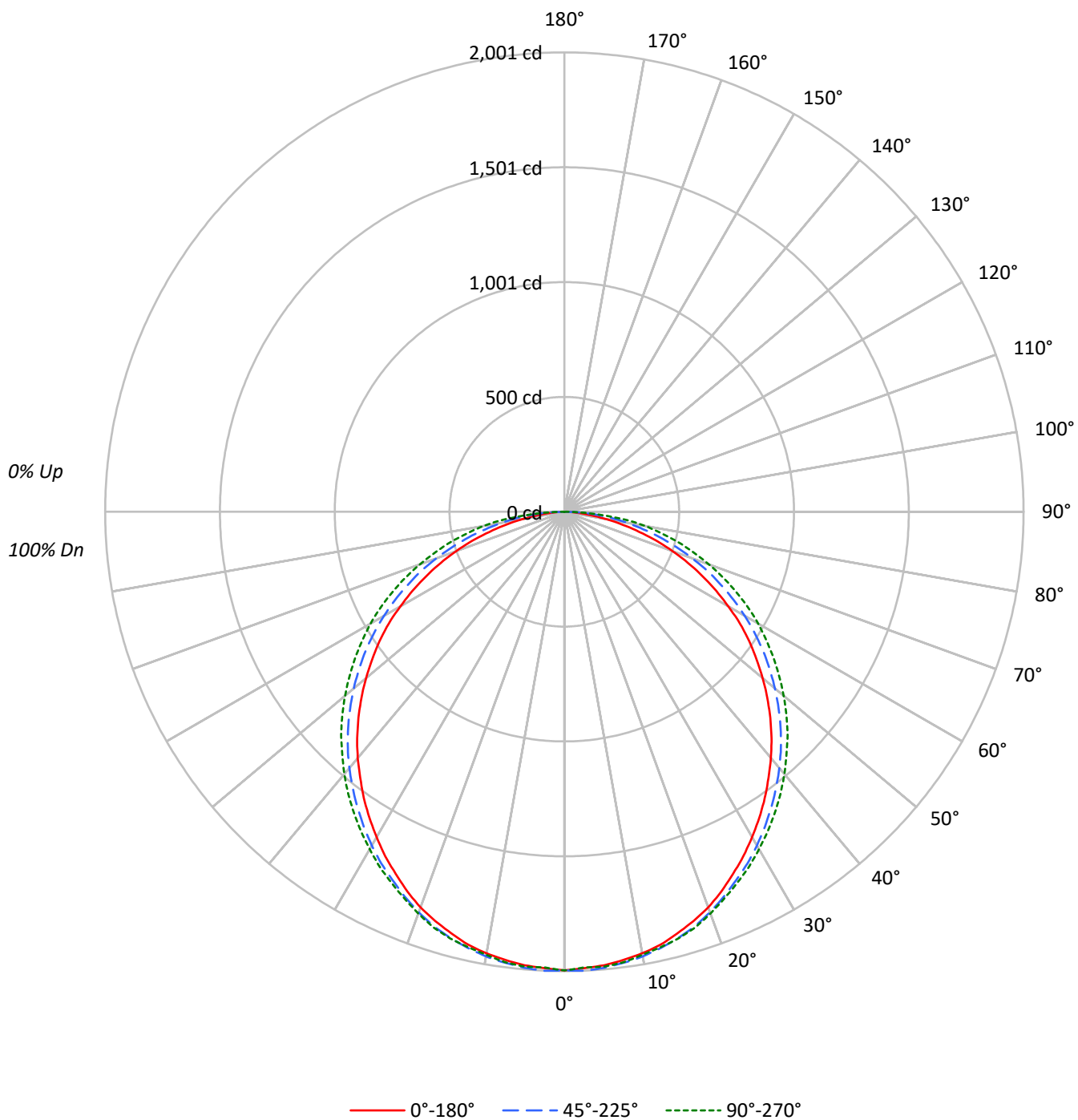
Lumens per Lamp: N/A
Luminaire Lumens: 5830.0 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3060	3060	3060
5°	3049	3066	3058
10°	3038	3059	3048
15°	3015	3046	3050
20°	2989	3025	3035
25°	2940	2992	3013
30°	2894	2968	3001
35°	2847	2939	2990
40°	2800	2914	2983
45°	2748	2886	2980
50°	2687	2855	2973
55°	2626	2824	2972
60°	2529	2782	2990
65°	2410	2728	2992
70°	2249	2652	3000
75°	2001	2556	3052
80°	1643	2449	3167
85°	1084	2299	2863

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3243 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	3.2
10°-20°	540.9	9.3
20°-30°	815.3	14.0
30°-40°	981.8	16.8
40°-50°	1025.7	17.6
50°-60°	942.4	16.2
60°-70°	742.1	12.7
70°-80°	455.0	7.8
80°-90°	138.0	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°	1545.2	26.5
0°-40°	2526.9	43.3
0°-60°	4495.0	77.1
0°-90°	5830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5830.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1998	1998	1998	1998	1998	
5°	1983	1987	1994	1992	1989	188
15°	1902	1909	1921	1929	1924	537
25°	1740	1751	1771	1789	1783	802
35°	1523	1542	1572	1600	1599	952
45°	1268	1296	1333	1370	1376	978
55°	983	1012	1058	1103	1113	877
65°	665	700	753	803	826	658
75°	338	378	432	484	516	359
85°	62	91	131	146	163	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1997.7	1997.7	1997.7	1997.7	1997.7
2.5°	1990.3	1995.2	2001.4	1991.5	1986.6
5°	1982.9	1986.6	1994.0	1991.5	1989.1
7.5°	1969.3	1971.8	1981.7	1981.7	1979.2
10°	1953.3	1958.2	1966.9	1965.6	1959.5
12.5°	1932.3	1936.0	1945.9	1945.9	1942.2
15°	1901.5	1908.9	1921.2	1928.6	1923.7
17.5°	1869.4	1876.8	1892.8	1900.2	1897.8
20°	1833.6	1839.8	1855.8	1866.9	1862.0
22.5°	1789.2	1796.6	1815.1	1827.4	1822.5
25°	1739.8	1750.9	1770.7	1789.2	1783.0
27.5°	1690.5	1702.8	1727.5	1746.0	1743.5
30°	1636.2	1652.2	1678.1	1701.6	1696.6
32.5°	1580.6	1599.2	1626.3	1651.0	1649.7
35°	1522.7	1542.4	1572.0	1600.4	1599.2
37.5°	1461.0	1484.4	1515.2	1546.1	1547.3
40°	1400.5	1422.7	1457.3	1490.6	1491.8
42.5°	1336.3	1359.8	1396.8	1431.3	1432.6
45°	1268.5	1295.6	1332.6	1369.6	1375.8
47.5°	1199.4	1227.7	1266.0	1305.5	1312.9
50°	1127.8	1157.4	1198.1	1240.1	1247.5
52.5°	1055.0	1085.8	1127.8	1169.8	1180.9
55°	983.4	1011.8	1057.5	1103.1	1113.0
57.5°	908.2	934.1	983.4	1031.6	1043.9
60°	825.5	857.6	908.2	956.3	976.0
62.5°	745.3	779.8	831.7	879.8	902.0
65°	665.1	699.6	752.7	803.3	825.5
67.5°	583.6	619.4	676.2	724.3	749.0
70°	502.2	538.0	592.3	644.1	670.0
72.5°	420.8	459.0	512.1	565.1	591.0
75°	338.1	377.6	431.9	483.7	515.8
77.5°	260.4	298.6	352.9	406.0	433.1
80°	186.3	224.6	277.6	330.7	359.1
82.5°	118.5	154.2	206.1	250.5	276.4
85°	61.7	91.3	130.8	145.6	162.9
87.5°	18.5	35.8	50.6	56.8	70.3
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	20.1	20.4
	4H	17.8	19.2	18.2	19.6	19.9	19.1	20.5	19.5	20.9	21.3
	6H	18.2	19.5	18.6	19.9	20.3	19.9	21.2	20.3	21.6	22.0
	8H	18.3	19.6	18.7	20.0	20.4	20.2	21.5	20.6	21.9	22.3
	12H	18.4	19.6	18.8	19.9	20.4	20.4	21.6	20.8	22.0	22.4
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	19.8	20.2	19.1	20.3	19.5	20.7	21.1
	4H	18.9	20.0	19.3	20.4	20.9	20.1	21.2	20.5	21.6	22.0
	6H	19.5	20.4	19.9	20.8	21.3	21.0	22.0	21.5	22.4	22.9
	8H	19.6	20.5	20.1	20.9	21.4	21.4	22.3	21.9	22.8	23.2
	12H	19.7	20.5	20.2	21.0	21.4	21.7	22.5	22.2	23.0	23.4
8H	4H	19.4	20.3	19.8	20.7	21.2	20.4	21.3	20.9	21.7	22.2
	6H	20.0	20.8	20.5	21.3	21.8	21.5	22.2	22.0	22.7	23.2
	8H	20.3	20.9	20.8	21.4	21.9	22.0	22.7	22.5	23.2	23.6
	12H	20.4	21.0	20.9	21.5	22.1	22.4	23.0	22.9	23.4	24.0
12H	4H	19.5	20.3	19.9	20.7	21.2	20.4	21.2	20.9	21.7	22.2
	6H	20.2	20.9	20.7	21.3	21.9	21.6	22.2	22.1	22.7	23.2
	8H	20.5	21.1	21.0	21.5	22.1	22.1	22.7	22.6	23.2	23.7

(END OF REPORT)