

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: P1589858

Luminaire Tested: 24CZSP-SB-57-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589858
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-L845-S
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

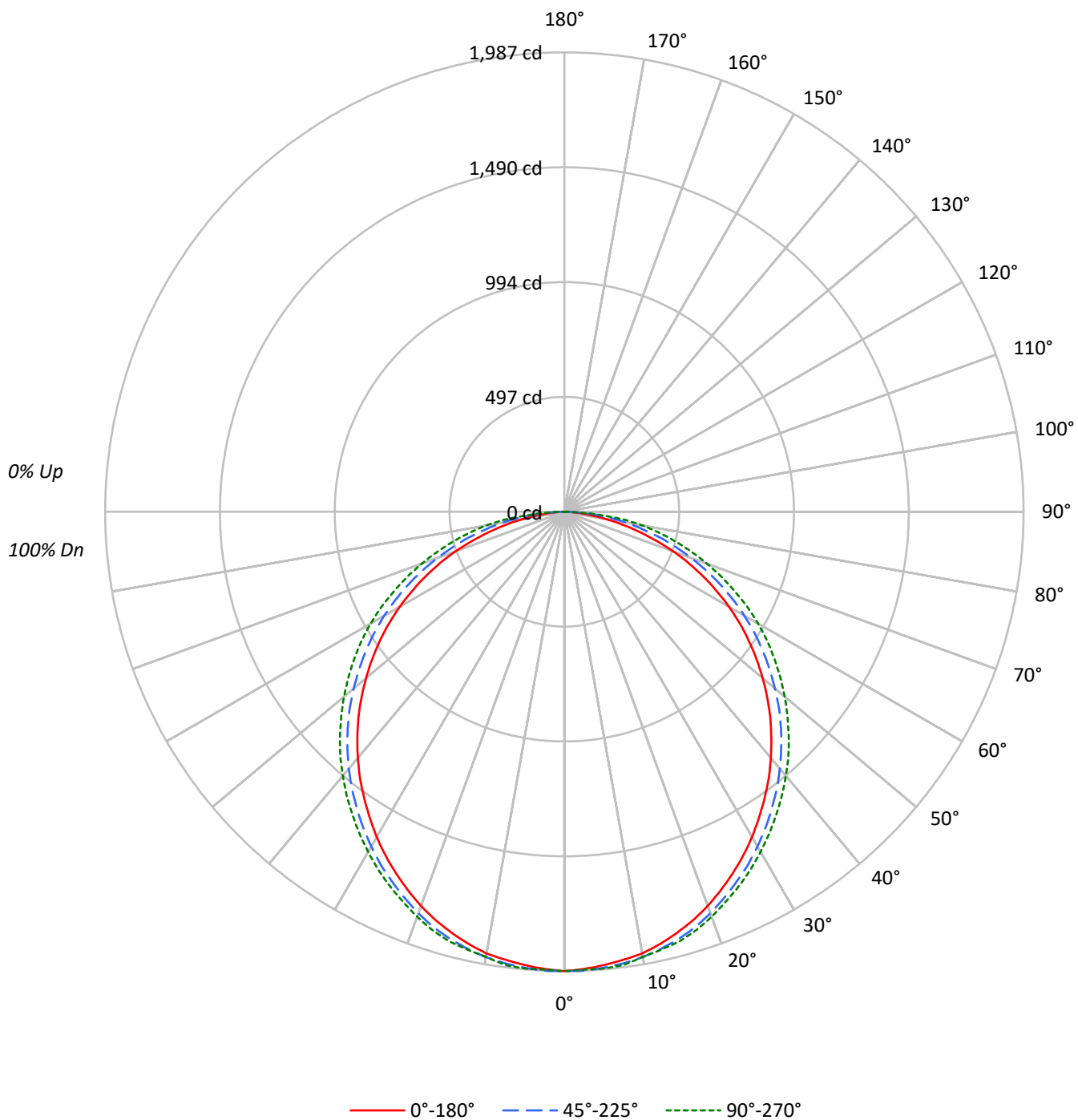
Lumens per Lamp: N/A
Luminaire Lumens: 5780.0 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3043	3043	3043
5°	3026	3043	3049
10°	3017	3042	3040
15°	2989	3032	3050
20°	2957	3012	3038
25°	2915	2982	3020
30°	2872	2955	3004
35°	2825	2927	2990
40°	2779	2901	2981
45°	2728	2871	2973
50°	2669	2835	2966
55°	2603	2799	2962
60°	2521	2758	2963
65°	2406	2699	2947
70°	2249	2617	2940
75°	1994	2516	2951
80°	1623	2391	3038
85°	1049	2207	2622

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3079 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.0	3.3
10°-20°	538.5	9.3
20°-30°	811.9	14.0
30°-40°	976.9	16.9
40°-50°	1019.0	17.6
50°-60°	934.0	16.2
60°-70°	733.4	12.7
70°-80°	446.4	7.7
80°-90°	132.1	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°	1538.4	26.6
0°-40°	2515.2	43.5
0°-60°	4468.2	77.3
0°-90°	5780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1987	1987	1987	1987	1987	
5°	1968	1981	1980	1977	1983	187
15°	1885	1904	1912	1915	1924	532
25°	1725	1748	1764	1776	1787	795
35°	1511	1534	1565	1588	1599	945
45°	1260	1286	1326	1357	1373	971
55°	975	1000	1048	1090	1109	871
65°	664	689	745	794	813	657
75°	337	368	425	476	499	357
85°	60	85	126	140	149	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	1979.5	1989.5	1987.0	1978.3	1982.0
5°	1968.3	1980.7	1979.5	1977.0	1983.2
7.5°	1954.6	1968.3	1969.6	1969.6	1977.0
10°	1939.7	1953.4	1955.9	1952.1	1954.6
12.5°	1914.8	1931.0	1936.0	1936.0	1939.7
15°	1885.0	1903.7	1912.4	1914.8	1923.6
17.5°	1852.7	1872.6	1883.8	1890.0	1897.4
20°	1814.1	1835.3	1847.7	1855.2	1863.9
22.5°	1770.6	1794.2	1807.9	1815.4	1825.3
25°	1724.6	1748.2	1764.4	1775.6	1786.8
27.5°	1676.1	1698.5	1720.9	1734.6	1744.5
30°	1623.9	1647.5	1671.1	1688.5	1698.5
32.5°	1567.9	1592.8	1620.2	1638.8	1650.0
35°	1510.7	1534.4	1565.4	1587.8	1599.0
37.5°	1452.3	1477.2	1509.5	1533.1	1546.8
40°	1390.1	1416.2	1451.1	1477.2	1490.8
42.5°	1325.5	1350.3	1388.9	1418.7	1434.9
45°	1259.6	1285.7	1325.5	1356.6	1372.7
47.5°	1191.2	1216.1	1259.6	1295.6	1309.3
50°	1120.3	1143.9	1189.9	1228.5	1244.7
52.5°	1048.2	1073.1	1119.1	1160.1	1177.5
55°	974.8	999.7	1048.2	1090.5	1109.1
57.5°	900.2	925.1	974.8	1018.4	1040.7
60°	823.1	848.0	900.2	945.0	967.4
62.5°	743.6	769.7	823.1	869.1	892.8
65°	664.0	688.8	744.8	794.5	813.2
67.5°	584.4	609.3	664.0	713.7	736.1
70°	502.3	530.9	584.4	636.6	656.5
72.5°	416.5	448.9	502.3	557.0	576.9
75°	337.0	368.0	425.2	476.2	498.6
77.5°	258.6	292.2	345.7	397.9	420.3
80°	184.0	216.4	271.1	320.8	344.4
82.5°	116.9	145.5	200.2	245.0	262.4
85°	59.7	84.6	125.6	140.5	149.2
87.5°	17.4	29.8	44.8	56.0	62.2
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	15.4	17.0	15.7	17.3	17.7	16.1	17.8	16.5	18.1	18.4
	3H	17.1	18.6	17.5	19.0	19.3	18.2	19.7	18.6	20.0	20.4
	4H	17.8	19.2	18.2	19.5	19.9	19.0	20.5	19.4	20.8	21.2
	6H	18.2	19.5	18.6	19.8	20.2	19.8	21.1	20.2	21.5	21.9
	8H	18.3	19.5	18.7	19.9	20.3	20.1	21.3	20.5	21.7	22.1
	12H	18.3	19.5	18.7	19.9	20.3	20.3	21.5	20.7	21.9	22.3
4H	2H	16.1	17.6	16.5	17.9	18.3	16.7	18.1	17.1	18.5	18.8
	3H	18.1	19.3	18.5	19.7	20.1	19.0	20.2	19.4	20.6	21.0
	4H	18.9	20.0	19.3	20.4	20.8	20.0	21.1	20.5	21.5	22.0
	6H	19.4	20.3	19.8	20.8	21.2	20.9	21.9	21.4	22.3	22.8
	8H	19.5	20.4	20.0	20.9	21.3	21.3	22.2	21.8	22.6	23.1
	12H	19.6	20.4	20.1	20.9	21.4	21.6	22.4	22.0	22.8	23.3
8H	4H	19.3	20.2	19.8	20.6	21.1	20.3	21.2	20.8	21.7	22.1
	6H	20.0	20.7	20.5	21.2	21.7	21.4	22.1	21.9	22.6	23.1
	8H	20.2	20.9	20.7	21.4	21.8	21.9	22.5	22.4	23.0	23.5
	12H	20.3	20.9	20.8	21.4	22.0	22.2	22.8	22.7	23.3	23.9
12H	4H	19.4	20.2	19.9	20.7	21.1	20.4	21.2	20.8	21.6	22.1
	6H	20.1	20.8	20.6	21.2	21.8	21.5	22.1	22.0	22.6	23.1
	8H	20.4	21.0	20.9	21.5	22.0	22.0	22.6	22.5	23.1	23.6

(END OF REPORT)