

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: P1589912

Luminaire Tested: 24CZSP-SB-62-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589912
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-62-L830-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 5500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

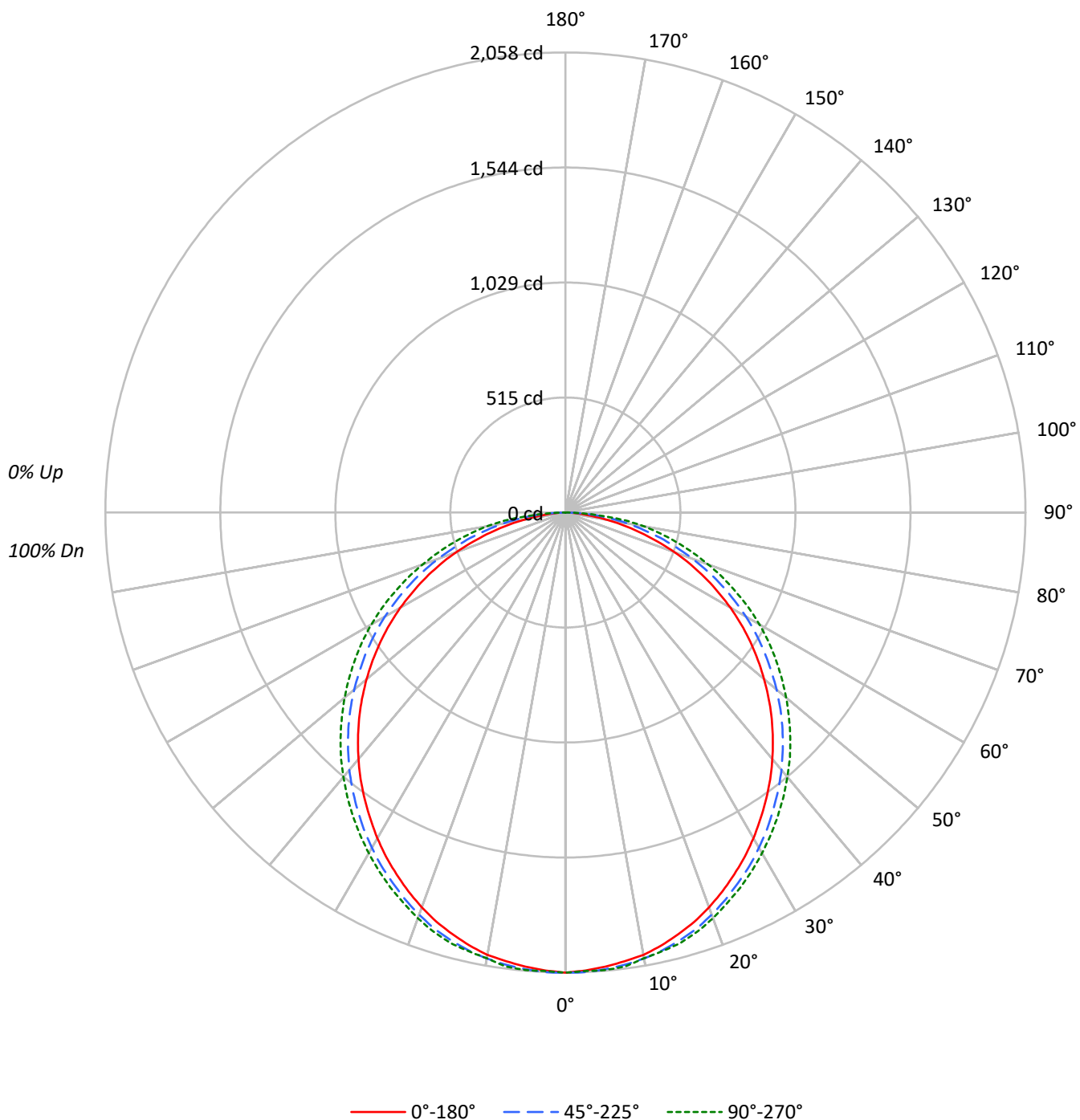
Lumens per Lamp: N/A
Luminaire Lumens: 5988.0 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 44.5
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°	3153	3153	3153
5°	3135	3153	3159
10°	3125	3151	3149
15°	3096	3142	3160
20°	3063	3120	3147
25°	3019	3089	3128
30°	2975	3062	3112
35°	2926	3032	3097
40°	2880	3006	3088
45°	2826	2974	3080
50°	2765	2937	3072
55°	2697	2900	3068
60°	2612	2857	3070
65°	2493	2796	3053
70°	2330	2711	3046
75°	2066	2607	3057
80°	1681	2477	3147
85°	1086	2286	2717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3189 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.8	3.3
10°-20°	557.8	9.3
20°-30°	841.1	14.0
30°-40°	1012.0	16.9
40°-50°	1055.6	17.6
50°-60°	967.6	16.2
60°-70°	759.8	12.7
70°-80°	462.4	7.7
80°-90°	136.8	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°	1593.7	26.6
0°-40°	2605.7	43.5
0°-60°	4629.0	77.3
0°-90°	5988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5988.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2058	2058	2058	2058	2058	
5°	2039	2052	2051	2048	2055	194
15°	1953	1972	1981	1984	1993	551
25°	1787	1811	1828	1840	1851	823
35°	1565	1590	1622	1645	1657	979
45°	1305	1332	1373	1405	1422	1006
55°	1010	1036	1086	1130	1149	902
65°	688	714	772	823	842	680
75°	349	381	440	493	516	370
85°	62	88	130	146	155	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2058.5	2058.5	2058.5	2058.5	2058.5
2.5°	2050.7	2061.0	2058.5	2049.4	2053.3
5°	2039.1	2052.0	2050.7	2048.2	2054.6
7.5°	2025.0	2039.1	2040.4	2040.4	2048.2
10°	2009.5	2023.7	2026.3	2022.4	2025.0
12.5°	1983.8	2000.5	2005.7	2005.7	2009.5
15°	1952.8	1972.2	1981.2	1983.8	1992.8
17.5°	1919.3	1940.0	1951.6	1958.0	1965.7
20°	1879.4	1901.3	1914.2	1921.9	1930.9
22.5°	1834.3	1858.8	1873.0	1880.7	1891.0
25°	1786.7	1811.1	1827.9	1839.5	1851.1
27.5°	1736.4	1759.6	1782.8	1797.0	1807.3
30°	1682.3	1706.8	1731.3	1749.3	1759.6
32.5°	1624.4	1650.1	1678.5	1697.8	1709.4
35°	1565.1	1589.6	1621.8	1645.0	1656.6
37.5°	1504.6	1530.3	1563.8	1588.3	1602.5
40°	1440.2	1467.2	1503.3	1530.3	1544.5
42.5°	1373.2	1398.9	1438.9	1469.8	1486.5
45°	1304.9	1331.9	1373.2	1405.4	1422.1
47.5°	1234.0	1259.8	1304.9	1342.3	1356.4
50°	1160.6	1185.1	1232.8	1272.7	1289.4
52.5°	1085.9	1111.7	1159.3	1201.8	1219.9
55°	1009.9	1035.7	1085.9	1129.7	1149.0
57.5°	932.6	958.4	1009.9	1055.0	1078.2
60°	852.8	878.5	932.6	979.0	1002.2
62.5°	770.3	797.4	852.8	900.4	924.9
65°	687.9	713.6	771.6	823.1	842.5
67.5°	605.4	631.2	687.9	739.4	762.6
70°	520.4	550.0	605.4	659.5	680.1
72.5°	431.5	465.0	520.4	577.1	597.7
75°	349.1	381.3	440.5	493.4	516.5
77.5°	267.9	302.7	358.1	412.2	435.4
80°	190.6	224.1	280.8	332.3	356.8
82.5°	121.1	150.7	207.4	253.8	271.8
85°	61.8	87.6	130.1	145.6	154.6
87.5°	18.0	30.9	46.4	58.0	64.4
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	15.5	17.1	15.9	17.5	17.8	16.2	17.9	16.6	18.2	18.5
	3H	17.3	18.8	17.6	19.1	19.4	18.3	19.8	18.7	20.1	20.5
	4H	17.9	19.3	18.3	19.6	20.0	19.2	20.6	19.6	20.9	21.3
	6H	18.3	19.6	18.7	20.0	20.4	19.9	21.2	20.3	21.6	22.0
	8H	18.4	19.6	18.8	20.0	20.4	20.2	21.5	20.6	21.9	22.3
	12H	18.4	19.6	18.9	20.0	20.5	20.4	21.6	20.8	22.0	22.4
4H	2H	16.3	17.7	16.7	18.0	18.4	16.8	18.2	17.2	18.6	19.0
	3H	18.2	19.4	18.7	19.8	20.2	19.1	20.3	19.6	20.7	21.1
	4H	19.0	20.1	19.4	20.5	20.9	20.2	21.2	20.6	21.7	22.1
	6H	19.5	20.5	20.0	20.9	21.4	21.1	22.0	21.5	22.5	22.9
	8H	19.7	20.6	20.1	21.0	21.5	21.4	22.3	21.9	22.8	23.2
	12H	19.7	20.5	20.2	21.0	21.5	21.7	22.5	22.2	23.0	23.4
8H	4H	19.4	20.3	19.9	20.8	21.2	20.5	21.3	20.9	21.8	22.3
	6H	20.1	20.8	20.6	21.3	21.8	21.5	22.3	22.0	22.7	23.2
	8H	20.3	21.0	20.8	21.5	22.0	22.0	22.7	22.5	23.2	23.6
	12H	20.4	21.0	21.0	21.5	22.1	22.3	22.9	22.8	23.4	24.0
12H	4H	19.5	20.3	20.0	20.8	21.3	20.5	21.3	21.0	21.8	22.2
	6H	20.2	20.9	20.8	21.4	21.9	21.6	22.3	22.1	22.7	23.2
	8H	20.5	21.1	21.0	21.6	22.1	22.1	22.7	22.6	23.2	23.7

(END OF REPORT)