

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: P1589920

Luminaire Tested: 24CZSP-SB-62-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589920
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-L850-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 5500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

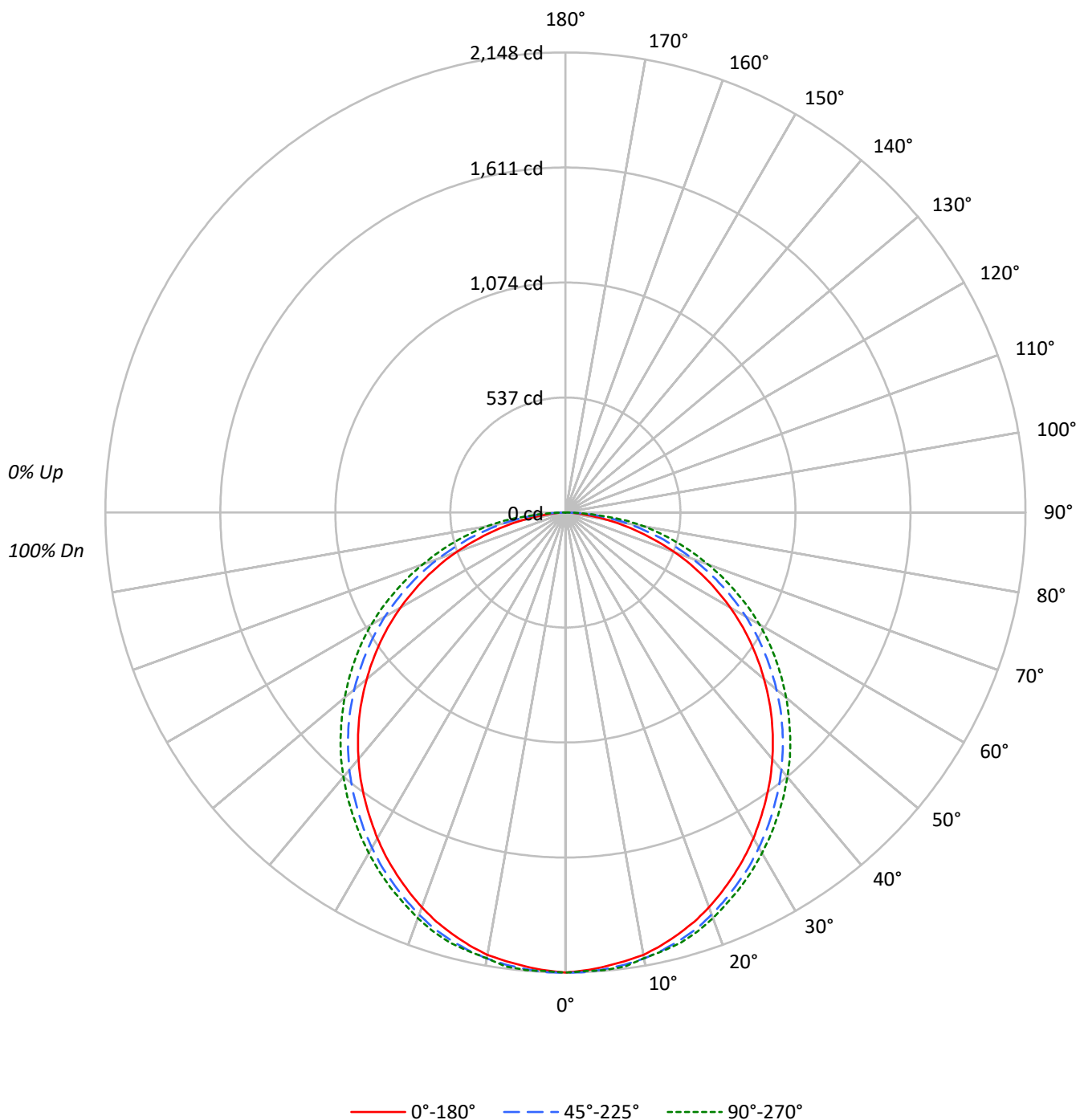
Lumens per Lamp: N/A
Luminaire Lumens: 6249.0 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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°	3290	3290	3290
5°	3272	3290	3297
10°	3262	3289	3287
15°	3232	3278	3298
20°	3197	3256	3284
25°	3151	3224	3265
30°	3105	3195	3248
35°	3054	3165	3232
40°	3005	3137	3223
45°	2950	3104	3215
50°	2886	3065	3206
55°	2814	3026	3202
60°	2726	2981	3204
65°	2602	2918	3186
70°	2432	2829	3179
75°	2156	2721	3190
80°	1755	2585	3285
85°	1133	2386	2835

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3328 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.3	3.3
10°-20°	582.2	9.3
20°-30°	877.7	14.0
30°-40°	1056.1	16.9
40°-50°	1101.6	17.6
50°-60°	1009.8	16.2
60°-70°	792.9	12.7
70°-80°	482.6	7.7
80°-90°	142.8	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°	1663.2	26.6
0°-40°	2719.3	43.5
0°-60°	4830.7	77.3
0°-90°	6249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6249.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2148	2148	2148	2148	2148	
5°	2128	2142	2140	2137	2144	202
15°	2038	2058	2068	2070	2080	575
25°	1864	1890	1908	1920	1932	859
35°	1633	1659	1692	1717	1729	1022
45°	1362	1390	1433	1467	1484	1050
55°	1054	1081	1133	1179	1199	942
65°	718	745	805	859	879	710
75°	364	398	460	515	539	386
85°	64	91	136	152	161	84
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2148.2	2148.2	2148.2	2148.2	2148.2
2.5°	2140.1	2150.9	2148.2	2138.8	2142.8
5°	2128.0	2141.5	2140.1	2137.4	2144.2
7.5°	2113.2	2128.0	2129.4	2129.4	2137.4
10°	2097.1	2111.9	2114.6	2110.5	2113.2
12.5°	2070.2	2087.7	2093.1	2093.1	2097.1
15°	2038.0	2058.1	2067.5	2070.2	2079.6
17.5°	2003.0	2024.5	2036.6	2043.3	2051.4
20°	1961.3	1984.2	1997.6	2005.7	2015.1
22.5°	1914.3	1939.8	1954.6	1962.7	1973.4
25°	1864.5	1890.1	1907.6	1919.7	1931.8
27.5°	1812.1	1836.3	1860.5	1875.3	1886.1
30°	1755.7	1781.2	1806.7	1825.6	1836.3
32.5°	1695.2	1722.0	1751.6	1771.8	1783.9
35°	1633.3	1658.9	1692.5	1716.7	1728.8
37.5°	1570.1	1597.0	1632.0	1657.5	1672.3
40°	1502.9	1531.2	1568.8	1597.0	1611.8
42.5°	1433.0	1459.9	1501.6	1533.8	1551.3
45°	1361.8	1390.0	1433.0	1466.6	1484.1
47.5°	1287.8	1314.7	1361.8	1400.8	1415.5
50°	1211.2	1236.8	1286.5	1328.2	1345.6
52.5°	1133.2	1160.1	1209.9	1254.2	1273.1
55°	1053.9	1080.8	1133.2	1179.0	1199.1
57.5°	973.3	1000.2	1053.9	1101.0	1125.2
60°	889.9	916.8	973.3	1021.7	1045.9
62.5°	803.9	832.1	889.9	939.7	965.2
65°	717.9	744.7	805.2	859.0	879.2
67.5°	631.8	658.7	717.9	771.6	795.8
70°	543.1	574.0	631.8	688.3	709.8
72.5°	450.3	485.3	543.1	602.2	623.8
75°	364.3	397.9	459.8	514.9	539.1
77.5°	279.6	315.9	373.7	430.2	454.4
80°	199.0	233.9	293.1	346.8	372.4
82.5°	126.4	157.3	216.4	264.8	283.6
85°	64.5	91.4	135.8	151.9	161.3
87.5°	18.8	32.3	48.4	60.5	67.2
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	15.6	17.3	16.0	17.6	17.9	16.4	18.0	16.7	18.3	18.7
	3H	17.4	18.9	17.8	19.2	19.6	18.5	20.0	18.8	20.3	20.6
	4H	18.0	19.4	18.4	19.8	20.2	19.3	20.7	19.7	21.1	21.5
	6H	18.4	19.8	18.8	20.1	20.5	20.1	21.4	20.5	21.7	22.1
	8H	18.5	19.8	19.0	20.2	20.6	20.4	21.6	20.8	22.0	22.4
	12H	18.6	19.8	19.0	20.2	20.6	20.6	21.8	21.0	22.1	22.6
4H	2H	16.4	17.8	16.8	18.2	18.5	17.0	18.4	17.4	18.7	19.1
	3H	18.4	19.6	18.8	20.0	20.4	19.3	20.5	19.7	20.9	21.3
	4H	19.1	20.2	19.6	20.6	21.1	20.3	21.4	20.7	21.8	22.2
	6H	19.7	20.6	20.1	21.1	21.5	21.2	22.2	21.7	22.6	23.1
	8H	19.8	20.7	20.3	21.1	21.6	21.6	22.5	22.0	22.9	23.4
	12H	19.9	20.7	20.4	21.2	21.6	21.8	22.6	22.3	23.1	23.6
8H	4H	19.6	20.5	20.0	20.9	21.4	20.6	21.5	21.1	21.9	22.4
	6H	20.2	21.0	20.7	21.5	22.0	21.7	22.4	22.2	22.9	23.4
	8H	20.5	21.1	21.0	21.6	22.1	22.1	22.8	22.6	23.3	23.8
	12H	20.6	21.2	21.1	21.7	22.2	22.5	23.1	23.0	23.6	24.1
12H	4H	19.7	20.5	20.1	20.9	21.4	20.6	21.4	21.1	21.9	22.4
	6H	20.4	21.1	20.9	21.5	22.1	21.7	22.4	22.2	22.9	23.4
	8H	20.6	21.2	21.2	21.7	22.3	22.3	22.8	22.8	23.3	23.9

(END OF REPORT)