

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: P1589916

Luminaire Tested: 24CZSP-SB-62-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589916
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-L840-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

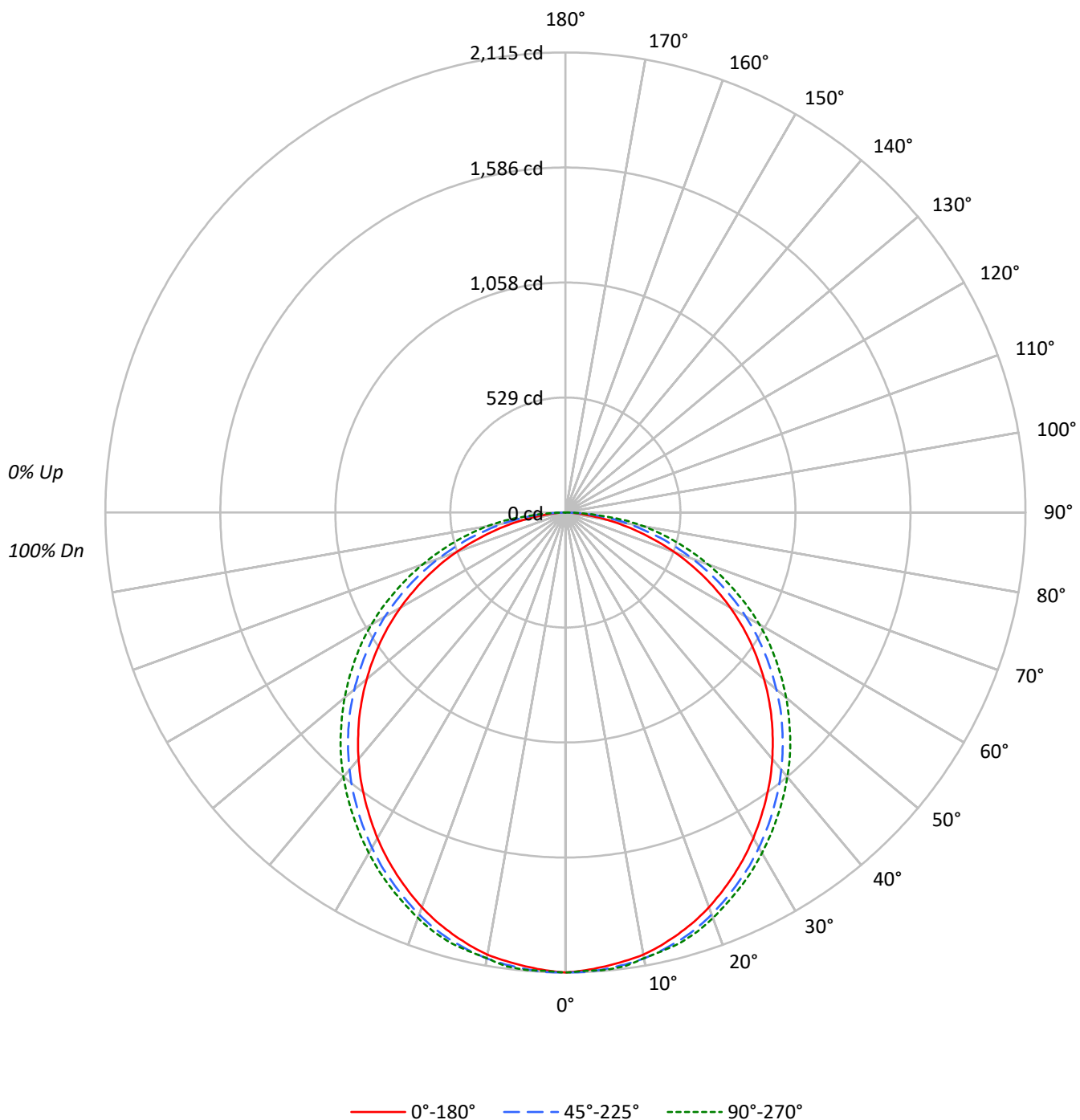
Lumens per Lamp: N/A
Luminaire Lumens: 6152.0 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3239	3239	3239
5°	3221	3239	3245
10°	3211	3238	3236
15°	3181	3227	3246
20°	3147	3205	3233
25°	3102	3174	3214
30°	3057	3146	3197
35°	3007	3115	3182
40°	2958	3088	3173
45°	2904	3056	3165
50°	2841	3018	3157
55°	2771	2979	3152
60°	2684	2935	3154
65°	2561	2873	3137
70°	2394	2785	3129
75°	2123	2678	3141
80°	1728	2545	3234
85°	1116	2350	2791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3276 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.1	3.3
10°-20°	573.1	9.3
20°-30°	864.1	14.0
30°-40°	1039.7	16.9
40°-50°	1084.5	17.6
50°-60°	994.1	16.2
60°-70°	780.6	12.7
70°-80°	475.1	7.7
80°-90°	140.5	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°	1637.4	26.6
0°-40°	2677.1	43.5
0°-60°	4755.7	77.3
0°-90°	6152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6152.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2115	2115	2115	2115	2115	
5°	2095	2108	2107	2104	2111	199
15°	2006	2026	2035	2038	2047	566
25°	1836	1861	1878	1890	1902	846
35°	1608	1633	1666	1690	1702	1006
45°	1341	1368	1411	1444	1461	1034
55°	1038	1064	1116	1161	1180	927
65°	707	733	793	846	866	699
75°	359	392	453	507	531	380
85°	64	90	134	150	159	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2114.8	2114.8	2114.8	2114.8	2114.8
2.5°	2106.9	2117.5	2114.8	2105.6	2109.6
5°	2095.0	2108.2	2106.9	2104.3	2110.9
7.5°	2080.4	2095.0	2096.3	2096.3	2104.3
10°	2064.6	2079.1	2081.8	2077.8	2080.4
12.5°	2038.1	2055.3	2060.6	2060.6	2064.6
15°	2006.3	2026.2	2035.4	2038.1	2047.3
17.5°	1971.9	1993.1	2005.0	2011.6	2019.6
20°	1930.9	1953.4	1966.6	1974.6	1983.8
22.5°	1884.6	1909.7	1924.3	1932.2	1942.8
25°	1835.6	1860.7	1878.0	1889.9	1901.8
27.5°	1784.0	1807.8	1831.6	1846.2	1856.8
30°	1728.4	1753.5	1778.7	1797.2	1807.8
32.5°	1668.8	1695.3	1724.4	1744.3	1756.2
35°	1608.0	1633.1	1666.2	1690.0	1701.9
37.5°	1545.8	1572.2	1606.6	1631.8	1646.3
40°	1479.6	1507.4	1544.4	1572.2	1586.8
42.5°	1410.8	1437.2	1478.3	1510.0	1527.2
45°	1340.6	1368.4	1410.8	1443.9	1461.1
47.5°	1267.8	1294.3	1340.6	1379.0	1393.6
50°	1192.4	1217.6	1266.5	1307.6	1324.8
52.5°	1115.7	1142.1	1191.1	1234.8	1253.3
55°	1037.6	1064.0	1115.7	1160.6	1180.5
57.5°	958.2	984.6	1037.6	1083.9	1107.7
60°	876.1	902.6	958.2	1005.8	1029.6
62.5°	791.4	819.2	876.1	925.1	950.2
65°	706.7	733.2	792.7	845.7	865.5
67.5°	622.0	648.5	706.7	759.7	783.5
70°	534.7	565.1	622.0	677.6	698.8
72.5°	443.3	477.8	534.7	592.9	614.1
75°	358.7	391.7	452.6	506.9	530.7
77.5°	275.3	311.0	367.9	423.5	447.3
80°	195.9	230.3	288.5	341.4	366.6
82.5°	124.4	154.8	213.1	260.7	279.2
85°	63.5	90.0	133.7	149.5	158.8
87.5°	18.5	31.8	47.6	59.6	66.2
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	17.2	15.9	17.6	17.9	16.3	18.0	16.7	18.3	18.6
	3H	17.4	18.9	17.7	19.2	19.5	18.4	19.9	18.8	20.2	20.6
	4H	18.0	19.4	18.4	19.7	20.1	19.3	20.7	19.7	21.0	21.4
	6H	18.4	19.7	18.8	20.1	20.5	20.0	21.3	20.4	21.7	22.1
	8H	18.5	19.7	18.9	20.1	20.5	20.3	21.6	20.7	22.0	22.3
	12H	18.5	19.7	19.0	20.1	20.5	20.5	21.7	20.9	22.1	22.5
4H	2H	16.4	17.8	16.7	18.1	18.5	16.9	18.3	17.3	18.7	19.1
	3H	18.3	19.5	18.8	19.9	20.3	19.2	20.4	19.6	20.8	21.2
	4H	19.1	20.2	19.5	20.6	21.0	20.3	21.3	20.7	21.8	22.2
	6H	19.6	20.6	20.1	21.0	21.5	21.2	22.1	21.6	22.5	23.0
	8H	19.8	20.6	20.2	21.1	21.6	21.5	22.4	22.0	22.9	23.3
	12H	19.8	20.6	20.3	21.1	21.6	21.8	22.6	22.3	23.1	23.5
8H	4H	19.5	20.4	20.0	20.9	21.3	20.6	21.4	21.0	21.9	22.3
	6H	20.2	20.9	20.7	21.4	21.9	21.6	22.4	22.1	22.8	23.3
	8H	20.4	21.1	20.9	21.6	22.1	22.1	22.7	22.6	23.3	23.7
	12H	20.5	21.1	21.0	21.6	22.2	22.4	23.0	22.9	23.5	24.1
12H	4H	19.6	20.4	20.1	20.9	21.4	20.6	21.4	21.1	21.9	22.3
	6H	20.3	21.0	20.8	21.5	22.0	21.7	22.3	22.2	22.8	23.3
	8H	20.6	21.2	21.1	21.7	22.2	22.2	22.8	22.7	23.3	23.8

(END OF REPORT)