

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: P1589852

Luminaire Tested: 24CZSP-SB-57-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589852
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-L830-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

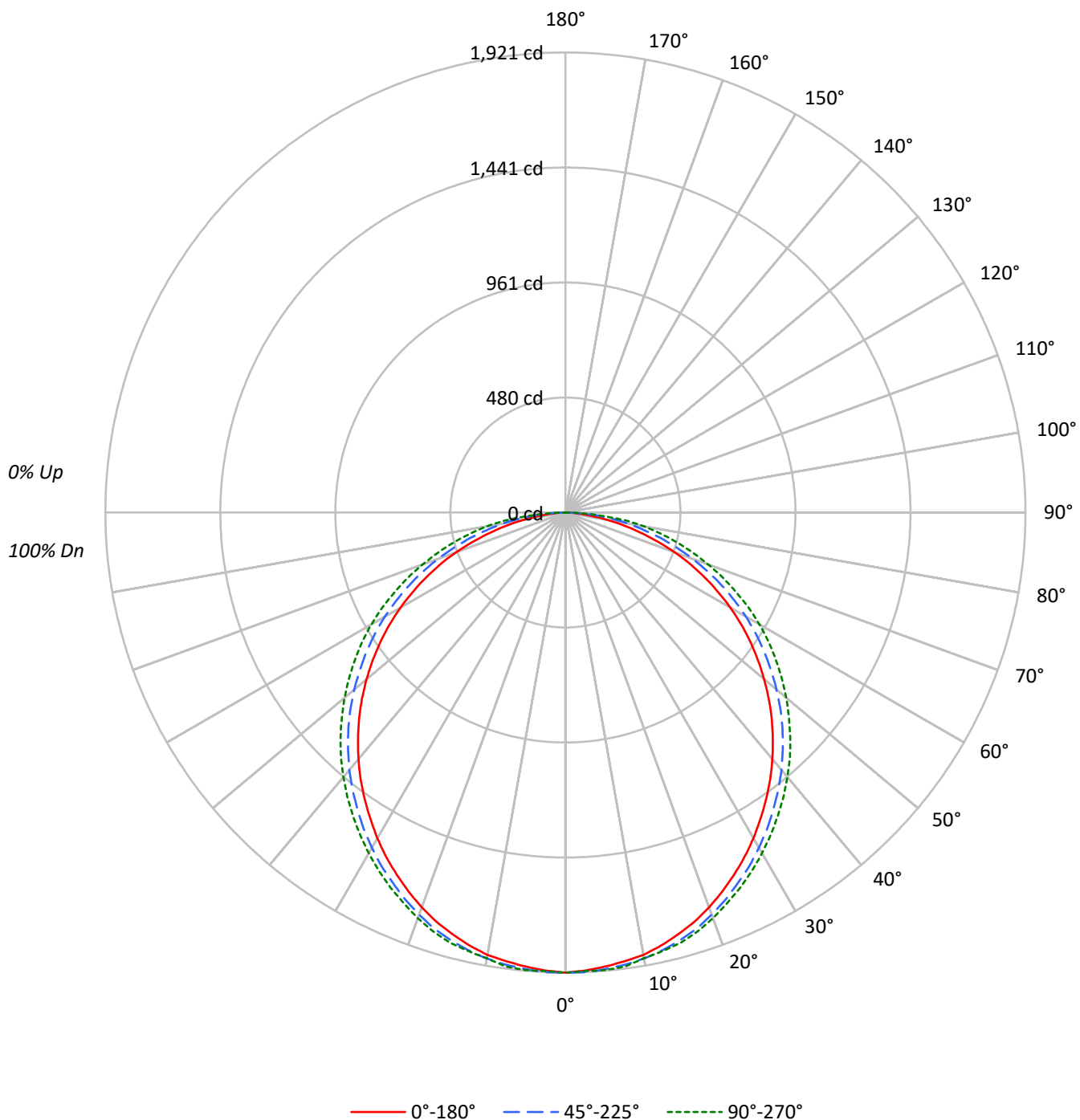
Lumens per Lamp: N/A
Luminaire Lumens: 5589.0 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2943	2943	2943
5°	2926	2943	2948
10°	2917	2941	2939
15°	2890	2932	2949
20°	2859	2912	2938
25°	2818	2883	2920
30°	2777	2858	2905
35°	2731	2830	2891
40°	2688	2805	2882
45°	2638	2776	2875
50°	2581	2742	2868
55°	2517	2707	2864
60°	2438	2667	2865
65°	2327	2610	2850
70°	2175	2531	2843
75°	1928	2433	2853
80°	1569	2312	2937
85°	1014	2133	2536

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2977 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.8	3.3
10°-20°	520.7	9.3
20°-30°	785.0	14.0
30°-40°	944.6	16.9
40°-50°	985.3	17.6
50°-60°	903.1	16.2
60°-70°	709.2	12.7
70°-80°	431.6	7.7
80°-90°	127.7	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°	1487.5	26.6
0°-40°	2432.1	43.5
0°-60°	4320.5	77.3
0°-90°	5589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5589.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1921	1921	1921	1921	1921	
5°	1903	1915	1914	1912	1918	181
15°	1823	1841	1849	1852	1860	514
25°	1668	1690	1706	1717	1728	768
35°	1461	1484	1514	1535	1546	914
45°	1218	1243	1282	1312	1327	939
55°	943	967	1014	1054	1072	842
65°	642	666	720	768	786	635
75°	326	356	411	460	482	345
85°	58	82	121	136	144	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1921.3	1921.3	1921.3	1921.3	1921.3
2.5°	1914.1	1923.7	1921.3	1912.9	1916.5
5°	1903.3	1915.3	1914.1	1911.7	1917.7
7.5°	1890.0	1903.3	1904.5	1904.5	1911.7
10°	1875.6	1888.8	1891.2	1887.6	1890.0
12.5°	1851.6	1867.2	1872.0	1872.0	1875.6
15°	1822.7	1840.7	1849.2	1851.6	1860.0
17.5°	1791.5	1810.7	1821.5	1827.5	1834.7
20°	1754.2	1774.6	1786.6	1793.9	1802.3
22.5°	1712.1	1734.9	1748.2	1755.4	1765.0
25°	1667.6	1690.5	1706.1	1716.9	1727.7
27.5°	1620.7	1642.4	1664.0	1677.2	1686.9
30°	1570.2	1593.1	1615.9	1632.7	1642.4
32.5°	1516.1	1540.2	1566.6	1584.7	1595.5
35°	1460.8	1483.7	1513.7	1535.4	1546.2
37.5°	1404.3	1428.4	1459.6	1482.5	1495.7
40°	1344.2	1369.4	1403.1	1428.4	1441.6
42.5°	1281.7	1305.7	1343.0	1371.8	1387.5
45°	1217.9	1243.2	1281.7	1311.7	1327.4
47.5°	1151.8	1175.9	1217.9	1252.8	1266.0
50°	1083.3	1106.1	1150.6	1187.9	1203.5
52.5°	1013.6	1037.6	1082.1	1121.8	1138.6
55°	942.6	966.7	1013.6	1054.4	1072.5
57.5°	870.5	894.5	942.6	984.7	1006.3
60°	795.9	820.0	870.5	913.8	935.4
62.5°	719.0	744.2	795.9	840.4	863.3
65°	642.0	666.1	720.2	768.3	786.3
67.5°	565.1	589.1	642.0	690.1	711.8
70°	485.7	513.4	565.1	615.6	634.8
72.5°	402.8	434.0	485.7	538.6	557.9
75°	325.8	355.9	411.2	460.5	482.1
77.5°	250.1	282.5	334.2	384.7	406.4
80°	177.9	209.2	262.1	310.2	333.0
82.5°	113.0	140.7	193.6	236.9	253.7
85°	57.7	81.8	121.4	135.9	144.3
87.5°	16.8	28.9	43.3	54.1	60.1
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	15.2	16.9	15.6	17.2	17.5	16.0	17.6	16.3	18.0	18.3
	3H	17.0	18.5	17.4	18.8	19.2	18.1	19.6	18.4	19.9	20.3
	4H	17.6	19.1	18.0	19.4	19.8	18.9	20.3	19.3	20.7	21.1
	6H	18.0	19.4	18.5	19.7	20.1	19.7	21.0	20.1	21.4	21.7
	8H	18.1	19.4	18.6	19.8	20.2	20.0	21.2	20.4	21.6	22.0
	12H	18.2	19.4	18.6	19.8	20.2	20.2	21.4	20.6	21.8	22.2
4H	2H	16.0	17.4	16.4	17.8	18.2	16.6	18.0	17.0	18.4	18.7
	3H	18.0	19.2	18.4	19.6	20.0	18.9	20.1	19.3	20.5	20.9
	4H	18.8	19.8	19.2	20.2	20.7	19.9	21.0	20.4	21.4	21.9
	6H	19.3	20.2	19.7	20.7	21.1	20.8	21.8	21.3	22.2	22.7
	8H	19.4	20.3	19.9	20.8	21.2	21.2	22.1	21.7	22.5	23.0
	12H	19.5	20.3	20.0	20.8	21.2	21.4	22.2	21.9	22.7	23.2
8H	4H	19.2	20.1	19.7	20.5	21.0	20.2	21.1	20.7	21.5	22.0
	6H	19.9	20.6	20.4	21.1	21.6	21.3	22.0	21.8	22.5	23.0
	8H	20.1	20.7	20.6	21.2	21.7	21.7	22.4	22.3	22.9	23.4
	12H	20.2	20.8	20.7	21.3	21.8	22.1	22.7	22.6	23.2	23.7
12H	4H	19.3	20.1	19.8	20.6	21.0	20.2	21.0	20.7	21.5	22.0
	6H	20.0	20.7	20.5	21.1	21.7	21.3	22.0	21.9	22.5	23.0
	8H	20.3	20.9	20.8	21.3	21.9	21.9	22.5	22.4	22.9	23.5

(END OF REPORT)