

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: P1590043

Luminaire Tested: 24CZSP-SB-80-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-80-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 8000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

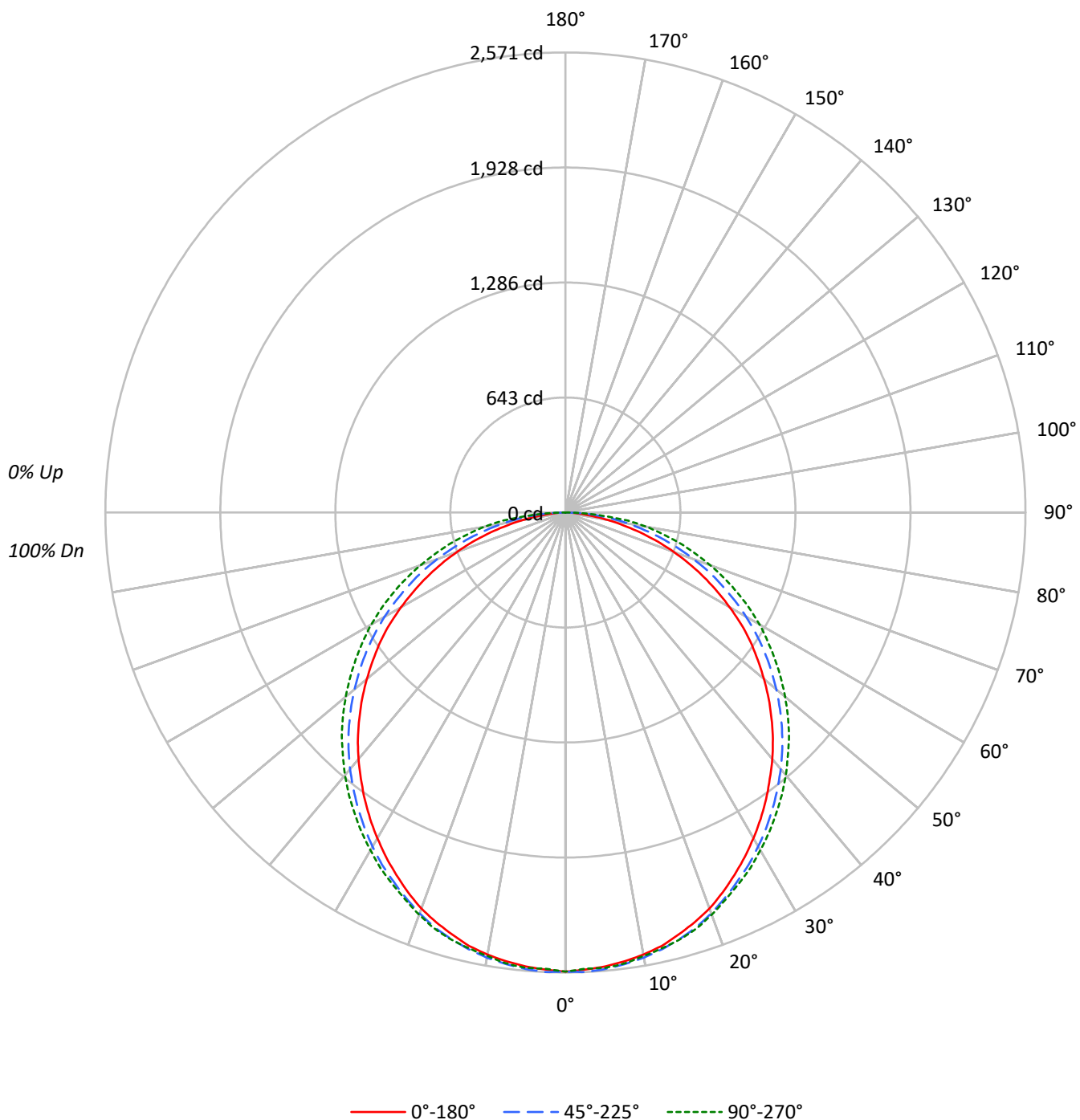
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7488.0 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 62.7
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	93	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	68
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		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	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3930	3930	3930
5°	3916	3938	3928
10°	3902	3929	3914
15°	3872	3913	3918
20°	3839	3885	3898
25°	3776	3843	3870
30°	3717	3812	3854
35°	3657	3775	3840
40°	3597	3742	3831
45°	3529	3707	3828
50°	3451	3667	3818
55°	3373	3627	3817
60°	3248	3573	3840
65°	3096	3503	3843
70°	2888	3407	3854
75°	2569	3283	3921
80°	2111	3145	4068
85°	1392	2952	3676

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4166 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	3.2
10°-20°	694.7	9.3
20°-30°	1047.1	14.0
30°-40°	1261.0	16.8
40°-50°	1317.4	17.6
50°-60°	1210.3	16.2
60°-70°	953.1	12.7
70°-80°	584.4	7.8
80°-90°	177.2	2.4
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°	1984.6	26.5
0°-40°	3245.6	43.3
0°-60°	5773.3	77.1
0°-90°	7488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2566	2566	2566	2566	2566	
5°	2547	2552	2561	2558	2555	242
15°	2442	2452	2468	2477	2471	689
25°	2235	2249	2274	2298	2290	1030
35°	1956	1981	2019	2056	2054	1223
45°	1629	1664	1712	1759	1767	1257
55°	1263	1300	1358	1417	1430	1127
65°	854	899	967	1032	1060	844
75°	434	485	555	621	662	462
85°	79	117	168	187	209	102
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2565.8	2565.8	2565.8	2565.8	2565.8
2.5°	2556.3	2562.7	2570.6	2557.9	2551.6
5°	2546.8	2551.6	2561.1	2557.9	2554.7
7.5°	2529.4	2532.6	2545.2	2545.2	2542.1
10°	2508.8	2515.1	2526.2	2524.6	2516.7
12.5°	2481.8	2486.6	2499.3	2499.3	2494.5
15°	2442.2	2451.7	2467.6	2477.1	2470.7
17.5°	2401.0	2410.5	2431.1	2440.6	2437.5
20°	2355.1	2363.0	2383.6	2397.8	2391.5
22.5°	2298.0	2307.5	2331.3	2347.1	2340.8
25°	2234.6	2248.9	2274.2	2298.0	2290.1
27.5°	2171.2	2187.1	2218.8	2242.5	2239.4
30°	2101.5	2122.1	2155.4	2185.5	2179.1
32.5°	2030.2	2053.9	2088.8	2120.5	2118.9
35°	1955.7	1981.0	2019.1	2055.5	2053.9
37.5°	1876.4	1906.5	1946.2	1985.8	1987.4
40°	1798.8	1827.3	1871.7	1914.5	1916.1
42.5°	1716.4	1746.5	1794.0	1838.4	1840.0
45°	1629.2	1664.1	1711.6	1759.2	1767.1
47.5°	1540.5	1576.9	1626.0	1676.7	1686.3
50°	1448.5	1486.6	1538.9	1592.8	1602.3
52.5°	1355.0	1394.6	1448.5	1502.4	1516.7
55°	1263.1	1299.6	1358.2	1416.8	1429.5
57.5°	1166.4	1199.7	1263.1	1324.9	1340.8
60°	1060.3	1101.5	1166.4	1228.2	1253.6
62.5°	957.2	1001.6	1068.2	1130.0	1158.5
65°	854.2	898.6	966.7	1031.7	1060.3
67.5°	749.6	795.6	868.5	930.3	962.0
70°	645.0	691.0	760.7	827.3	860.6
72.5°	540.4	589.6	657.7	725.9	759.1
75°	434.2	485.0	554.7	621.3	662.5
77.5°	334.4	383.5	453.3	521.4	556.3
80°	239.3	288.4	356.6	424.7	461.2
82.5°	152.1	198.1	264.7	321.7	355.0
85°	79.2	117.3	168.0	187.0	209.2
87.5°	23.8	46.0	65.0	72.9	90.3
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	16.3	17.9	16.6	18.2	18.6	17.0	18.7	17.4	19.0	19.3
	3H	18.0	19.5	18.4	19.9	20.2	19.1	20.6	19.5	20.9	21.3
	4H	18.7	20.1	19.1	20.4	20.8	20.0	21.4	20.4	21.8	22.1
	6H	19.1	20.4	19.5	20.8	21.1	20.8	22.1	21.2	22.4	22.8
	8H	19.2	20.4	19.6	20.8	21.2	21.1	22.3	21.5	22.7	23.1
	12H	19.2	20.4	19.7	20.8	21.2	21.3	22.5	21.7	22.9	23.3
4H	2H	17.0	18.5	17.4	18.8	19.2	17.6	19.0	18.0	19.4	19.8
	3H	19.0	20.2	19.4	20.6	21.0	19.9	21.1	20.4	21.5	21.9
	4H	19.8	20.9	20.2	21.3	21.7	21.0	22.1	21.4	22.5	22.9
	6H	20.3	21.3	20.8	21.7	22.2	21.9	22.9	22.4	23.3	23.8
	8H	20.5	21.4	20.9	21.8	22.3	22.3	23.2	22.8	23.6	24.1
	12H	20.6	21.4	21.0	21.8	22.3	22.6	23.4	23.1	23.8	24.3
8H	4H	20.2	21.1	20.7	21.6	22.0	21.3	22.2	21.7	22.6	23.1
	6H	20.9	21.7	21.4	22.1	22.6	22.4	23.1	22.9	23.6	24.1
	8H	21.1	21.8	21.6	22.3	22.8	22.9	23.5	23.4	24.0	24.5
	12H	21.3	21.9	21.8	22.4	22.9	23.2	23.8	23.7	24.3	24.9
12H	4H	20.3	21.1	20.8	21.6	22.1	21.3	22.1	21.8	22.6	23.1
	6H	21.1	21.7	21.6	22.2	22.7	22.4	23.1	22.9	23.6	24.1
	8H	21.3	21.9	21.8	22.4	23.0	23.0	23.6	23.5	24.1	24.6

(END OF REPORT)