

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: P1590051

Luminaire Tested: 24CZSP-SB-80-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590051
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-L950
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 8000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

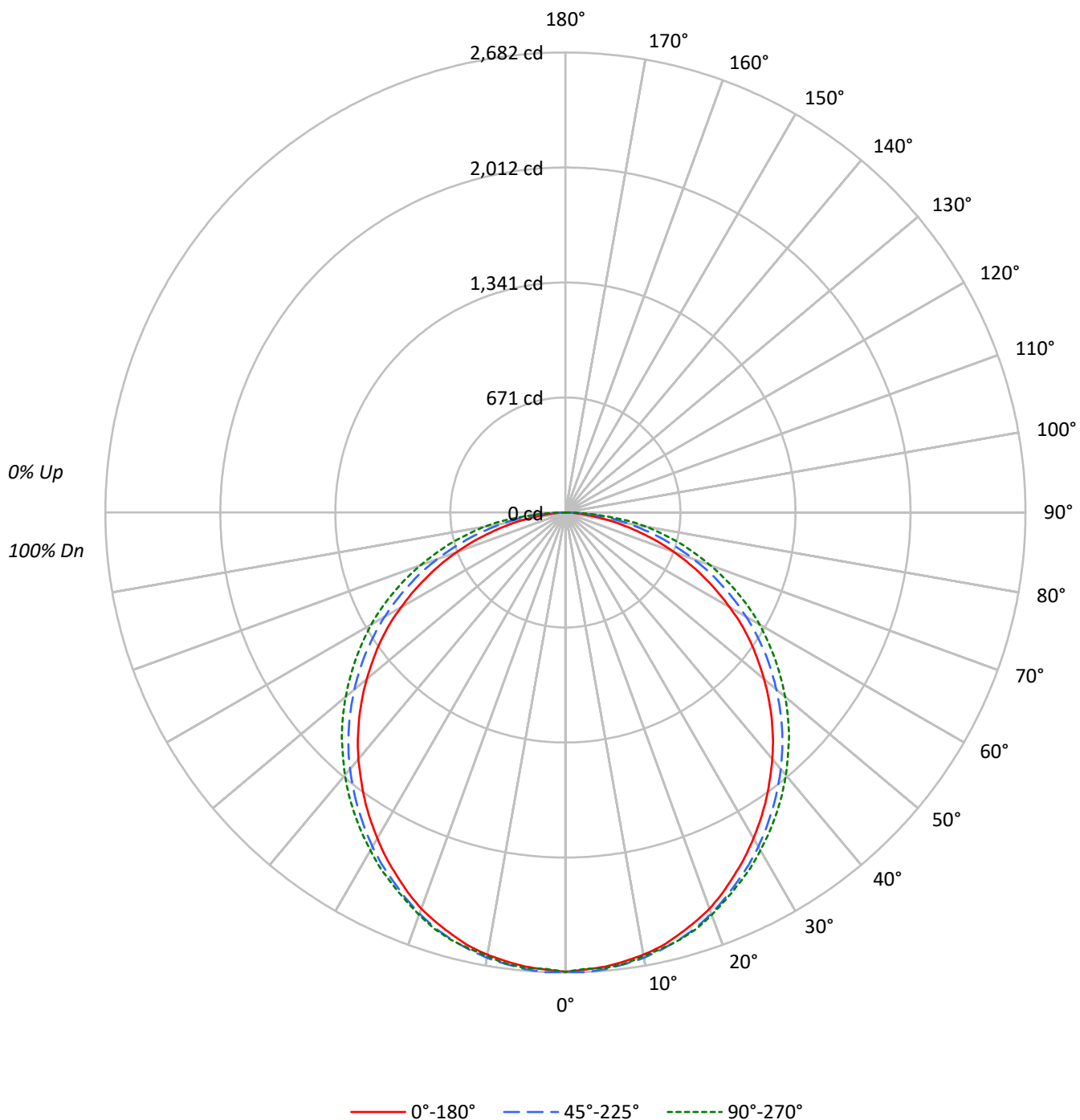
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7814.0 lumens
Efficiency: N/A
Efficacy: 124.6 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°	4101	4101	4101
5°	4086	4109	4099
10°	4072	4100	4085
15°	4041	4083	4088
20°	4006	4054	4068
25°	3941	4011	4039
30°	3878	3978	4022
35°	3816	3940	4008
40°	3753	3905	3998
45°	3682	3869	3994
50°	3602	3827	3984
55°	3520	3785	3984
60°	3389	3729	4007
65°	3231	3656	4010
70°	3014	3555	4021
75°	2681	3425	4091
80°	2202	3282	4245
85°	1453	3081	3836

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4348 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.3	3.2
10°-20°	725.0	9.3
20°-30°	1092.7	14.0
30°-40°	1315.9	16.8
40°-50°	1374.8	17.6
50°-60°	1263.0	16.2
60°-70°	994.6	12.7
70°-80°	609.8	7.8
80°-90°	184.9	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°	2071.0	26.5
0°-40°	3386.9	43.3
0°-60°	6024.7	77.1
0°-90°	7814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2678	2678	2678	2678	2678	
5°	2658	2663	2673	2669	2666	252
15°	2548	2558	2575	2585	2578	719
25°	2332	2347	2373	2398	2390	1075
35°	2041	2067	2107	2145	2143	1276
45°	1700	1736	1786	1836	1844	1311
55°	1318	1356	1417	1478	1492	1176
65°	891	938	1009	1077	1106	881
75°	453	506	579	648	691	482
85°	83	122	175	195	218	106
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2677.5	2677.5	2677.5	2677.5	2677.5
2.5°	2667.6	2674.2	2682.5	2669.3	2662.7
5°	2657.7	2662.7	2672.6	2669.3	2666.0
7.5°	2639.5	2642.8	2656.0	2656.0	2652.7
10°	2618.0	2624.6	2636.2	2634.5	2626.3
12.5°	2589.9	2594.9	2608.1	2608.1	2603.1
15°	2548.5	2558.5	2575.0	2584.9	2578.3
17.5°	2505.5	2515.5	2537.0	2546.9	2543.6
20°	2457.6	2465.9	2487.4	2502.2	2495.6
22.5°	2398.0	2408.0	2432.8	2449.3	2442.7
25°	2331.9	2346.8	2373.2	2398.0	2389.8
27.5°	2265.7	2282.3	2315.4	2340.2	2336.9
30°	2193.0	2214.5	2249.2	2280.6	2274.0
32.5°	2118.6	2143.4	2179.7	2212.8	2211.2
35°	2040.8	2067.3	2107.0	2145.0	2143.4
37.5°	1958.1	1989.6	2030.9	2072.2	2073.9
40°	1877.1	1906.9	1953.2	1997.8	1999.5
42.5°	1791.1	1822.5	1872.1	1918.4	1920.1
45°	1700.1	1736.5	1786.1	1835.7	1844.0
47.5°	1607.5	1645.6	1696.8	1749.7	1759.7
50°	1511.6	1551.3	1605.9	1662.1	1672.0
52.5°	1414.0	1455.4	1511.6	1567.8	1582.7
55°	1318.1	1356.1	1417.3	1478.5	1491.8
57.5°	1217.2	1251.9	1318.1	1382.6	1399.1
60°	1106.4	1149.4	1217.2	1281.7	1308.2
62.5°	998.9	1045.2	1114.7	1179.2	1208.9
65°	891.4	937.7	1008.8	1076.6	1106.4
67.5°	782.3	830.2	906.3	970.8	1003.9
70°	673.1	721.1	793.8	863.3	898.0
72.5°	564.0	615.2	686.3	757.5	792.2
75°	453.1	506.1	578.8	648.3	691.3
77.5°	349.0	400.2	473.0	544.1	580.5
80°	249.7	301.0	372.1	443.2	481.3
82.5°	158.8	206.7	276.2	335.7	370.5
85°	82.7	122.4	175.3	195.2	218.3
87.5°	24.8	48.0	67.8	76.1	94.3
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	16.4	18.1	16.8	18.4	18.7	17.2	18.8	17.5	19.1	19.5
	3H	18.2	19.7	18.6	20.0	20.4	19.3	20.8	19.6	21.1	21.5
	4H	18.8	20.2	19.2	20.6	20.9	20.1	21.6	20.5	21.9	22.3
	6H	19.2	20.5	19.6	20.9	21.3	20.9	22.2	21.3	22.6	23.0
	8H	19.3	20.6	19.7	21.0	21.4	21.2	22.5	21.6	22.9	23.3
	12H	19.4	20.6	19.8	21.0	21.4	21.4	22.6	21.9	23.0	23.5
4H	2H	17.2	18.6	17.6	19.0	19.3	17.8	19.2	18.2	19.5	19.9
	3H	19.2	20.4	19.6	20.8	21.2	20.1	21.3	20.5	21.7	22.1
	4H	19.9	21.0	20.4	21.4	21.9	21.1	22.2	21.6	22.6	23.1
	6H	20.5	21.4	20.9	21.9	22.3	22.1	23.0	22.5	23.5	23.9
	8H	20.6	21.5	21.1	22.0	22.4	22.4	23.3	22.9	23.8	24.2
	12H	20.7	21.5	21.2	22.0	22.4	22.7	23.5	23.2	24.0	24.5
8H	4H	20.4	21.3	20.8	21.7	22.2	21.4	22.3	21.9	22.8	23.2
	6H	21.1	21.8	21.6	22.3	22.8	22.5	23.3	23.0	23.7	24.2
	8H	21.3	22.0	21.8	22.5	22.9	23.0	23.7	23.5	24.2	24.7
	12H	21.4	22.0	21.9	22.5	23.1	23.4	24.0	23.9	24.5	25.0
12H	4H	20.5	21.3	20.9	21.7	22.2	21.5	22.3	21.9	22.7	23.2
	6H	21.2	21.9	21.7	22.3	22.9	22.6	23.3	23.1	23.7	24.2
	8H	21.5	22.1	22.0	22.6	23.1	23.1	23.7	23.6	24.2	24.8

(END OF REPORT)