

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: P1590047

Luminaire Tested: 24CZSP-SB-80-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590047
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-L940
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 8000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

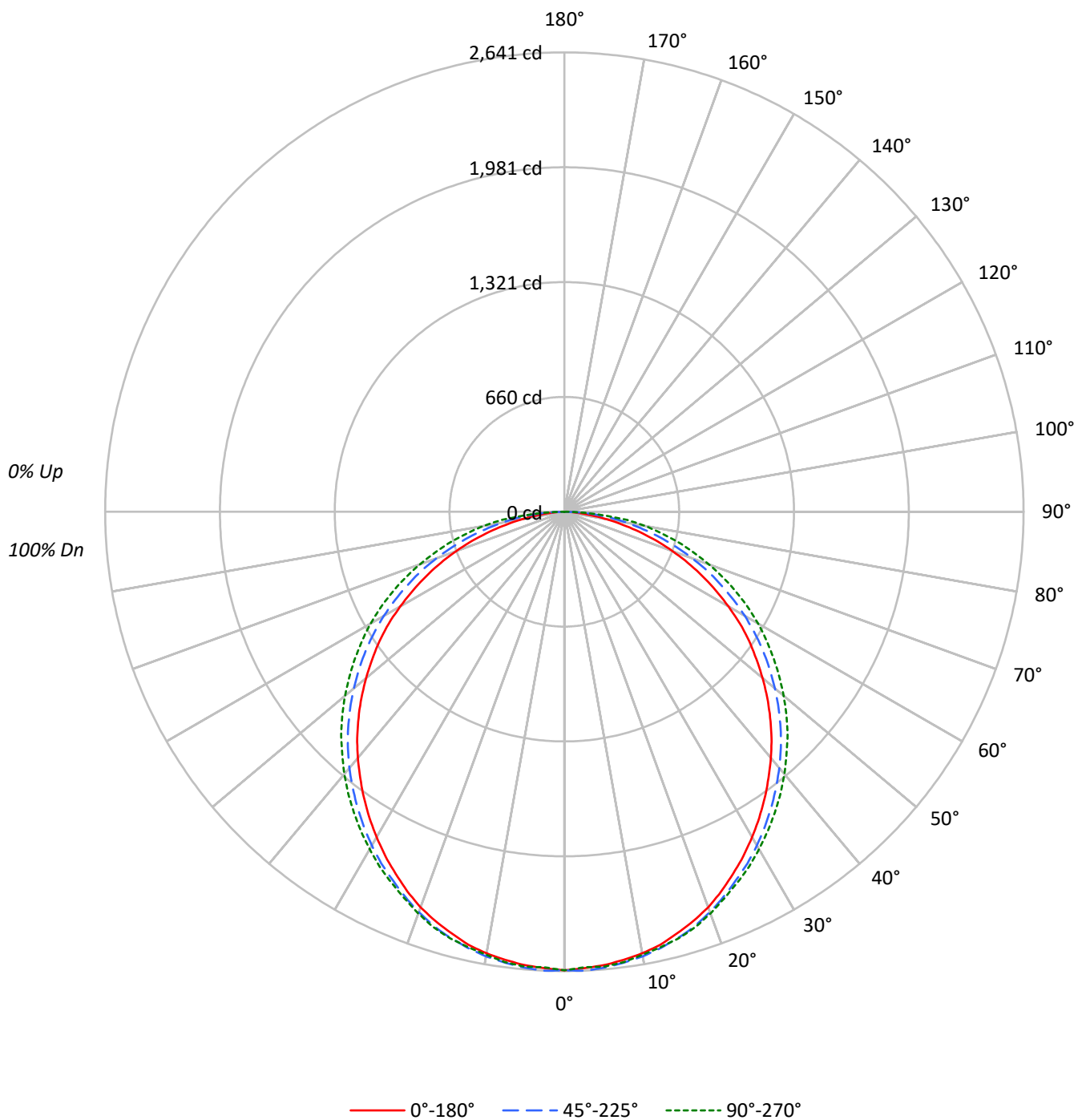
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7693.0 lumens
Efficiency: N/A
Efficacy: 122.7 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°	4038	4038	4038
5°	4023	4045	4035
10°	4009	4037	4021
15°	3979	4020	4025
20°	3944	3991	4005
25°	3880	3949	3976
30°	3818	3916	3959
35°	3757	3878	3946
40°	3695	3845	3936
45°	3626	3809	3932
50°	3546	3767	3922
55°	3465	3726	3922
60°	3337	3671	3945
65°	3181	3599	3948
70°	2968	3500	3959
75°	2640	3373	4028
80°	2169	3231	4179
85°	1430	3033	3777

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4279 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.4	3.2
10°-20°	713.7	9.3
20°-30°	1075.8	14.0
30°-40°	1295.5	16.8
40°-50°	1353.5	17.6
50°-60°	1243.5	16.2
60°-70°	979.2	12.7
70°-80°	600.3	7.8
80°-90°	182.0	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°	2038.9	26.5
0°-40°	3334.4	43.3
0°-60°	5931.4	77.1
0°-90°	7693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7693.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2636	2636	2636	2636	2636	
5°	2616	2621	2631	2628	2625	248
15°	2509	2519	2535	2545	2538	708
25°	2296	2310	2336	2361	2353	1058
35°	2009	2035	2074	2112	2110	1257
45°	1674	1710	1758	1807	1816	1291
55°	1298	1335	1395	1456	1469	1158
65°	878	923	993	1060	1089	868
75°	446	498	570	638	681	474
85°	81	120	173	192	215	105
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2636.1	2636.1	2636.1	2636.1	2636.1
2.5°	2626.3	2632.8	2641.0	2627.9	2621.4
5°	2616.5	2621.4	2631.2	2627.9	2624.7
7.5°	2598.6	2601.9	2614.9	2614.9	2611.7
10°	2577.5	2584.0	2595.4	2593.7	2585.6
12.5°	2549.8	2554.7	2567.7	2567.7	2562.8
15°	2509.1	2518.9	2535.1	2544.9	2538.4
17.5°	2466.7	2476.5	2497.7	2507.5	2504.2
20°	2419.5	2427.7	2448.8	2463.5	2457.0
22.5°	2360.9	2370.7	2395.1	2411.4	2404.9
25°	2295.8	2310.4	2336.5	2360.9	2352.8
27.5°	2230.7	2246.9	2279.5	2303.9	2300.7
30°	2159.0	2180.2	2214.4	2245.3	2238.8
32.5°	2085.7	2110.2	2146.0	2178.6	2176.9
35°	2009.2	2035.3	2074.3	2111.8	2110.2
37.5°	1927.8	1958.7	1999.5	2040.2	2041.8
40°	1848.0	1877.3	1922.9	1966.9	1968.5
42.5°	1763.4	1794.3	1843.1	1888.7	1890.4
45°	1673.8	1709.6	1758.5	1807.3	1815.5
47.5°	1582.6	1620.1	1670.6	1722.7	1732.4
50°	1488.2	1527.3	1581.0	1636.4	1646.1
52.5°	1392.1	1432.8	1488.2	1543.5	1558.2
55°	1297.7	1335.1	1395.4	1455.6	1468.7
57.5°	1198.4	1232.6	1297.7	1361.2	1377.5
60°	1089.3	1131.6	1198.4	1261.9	1287.9
62.5°	983.4	1029.0	1097.4	1160.9	1190.2
65°	877.6	923.2	993.2	1060.0	1089.3
67.5°	770.1	817.4	892.3	955.8	988.3
70°	662.7	709.9	781.5	849.9	884.1
72.5°	555.2	605.7	675.7	745.7	779.9
75°	446.1	498.2	569.9	638.3	680.6
77.5°	343.6	394.0	465.7	535.7	571.5
80°	245.9	296.3	366.3	436.4	473.8
82.5°	156.3	203.5	271.9	330.5	364.7
85°	81.4	120.5	172.6	192.1	214.9
87.5°	24.4	47.2	66.8	74.9	92.8
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	18.0	16.7	18.3	18.7	17.1	18.8	17.5	19.1	19.4
	3H	18.1	19.6	18.5	20.0	20.3	19.2	20.7	19.6	21.0	21.4
	4H	18.7	20.2	19.1	20.5	20.9	20.1	21.5	20.5	21.9	22.2
	6H	19.2	20.5	19.6	20.8	21.2	20.9	22.2	21.3	22.5	22.9
	8H	19.3	20.5	19.7	20.9	21.3	21.2	22.4	21.6	22.8	23.2
	12H	19.3	20.5	19.7	20.9	21.3	21.4	22.6	21.8	23.0	23.4
4H	2H	17.1	18.6	17.5	18.9	19.3	17.7	19.1	18.1	19.5	19.9
	3H	19.1	20.3	19.5	20.7	21.1	20.0	21.2	20.4	21.6	22.0
	4H	19.9	21.0	20.3	21.4	21.8	21.1	22.2	21.5	22.6	23.0
	6H	20.4	21.4	20.9	21.8	22.3	22.0	23.0	22.5	23.4	23.9
	8H	20.6	21.5	21.0	21.9	22.4	22.4	23.3	22.8	23.7	24.2
	12H	20.6	21.5	21.1	21.9	22.4	22.7	23.5	23.1	23.9	24.4
8H	4H	20.3	21.2	20.8	21.7	22.1	21.4	22.3	21.8	22.7	23.2
	6H	21.0	21.8	21.5	22.2	22.7	22.5	23.2	23.0	23.7	24.2
	8H	21.2	21.9	21.7	22.4	22.9	22.9	23.6	23.5	24.1	24.6
	12H	21.4	22.0	21.9	22.5	23.0	23.3	23.9	23.8	24.4	25.0
12H	4H	20.4	21.2	20.9	21.7	22.2	21.4	22.2	21.9	22.7	23.1
	6H	21.2	21.8	21.7	22.3	22.8	22.5	23.2	23.0	23.7	24.2
	8H	21.4	22.0	21.9	22.5	23.1	23.1	23.7	23.6	24.1	24.7

(END OF REPORT)