

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: P1589823

Luminaire Tested: 24CZSP-SB-52-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589823
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-52-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

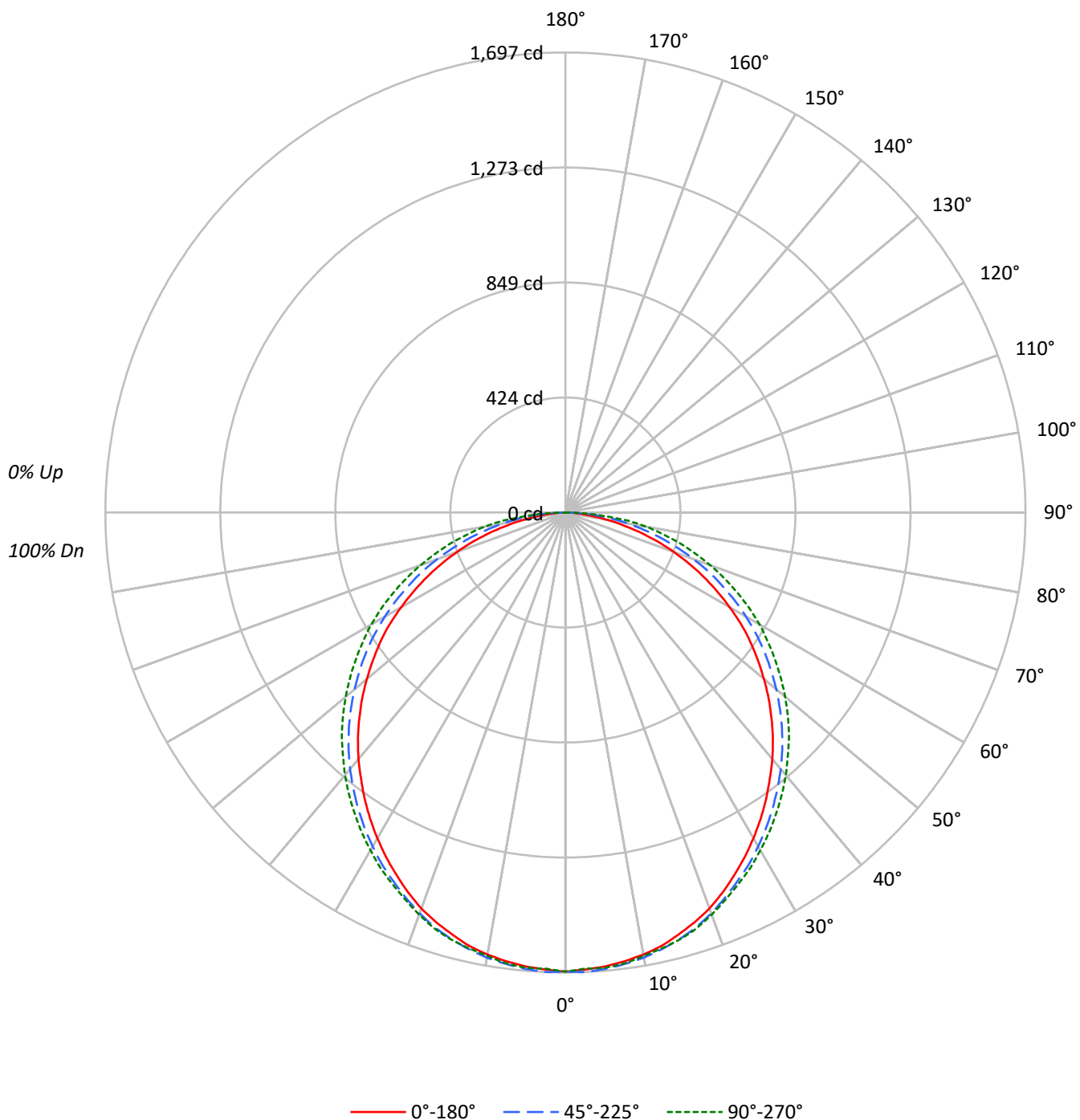
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4942.0 lumens
Efficiency: N/A
Efficacy: 134.7 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): 36.7
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

TEST NUMBER: P1589823
CATALOG NUMBER: 24CZSP-SB-52-L930

Luminous Intensity Polar Plot



TEST NUMBER: P1589823

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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°	2594	2594	2594
5°	2584	2599	2592
10°	2575	2593	2583
15°	2556	2582	2586
20°	2533	2564	2573
25°	2492	2537	2554
30°	2453	2516	2544
35°	2413	2492	2535
40°	2374	2470	2528
45°	2329	2447	2526
50°	2278	2420	2520
55°	2226	2394	2519
60°	2144	2358	2535
65°	2043	2312	2536
70°	1906	2248	2544
75°	1696	2166	2587
80°	1393	2075	2685
85°	919	1949	2427

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2749 cd/sqm

TEST NUMBER: P1589823

CATALOG NUMBER: 24CZSP-SB-52-L930

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.2	3.2
10°-20°	458.5	9.3
20°-30°	691.1	14.0
30°-40°	832.3	16.8
40°-50°	869.5	17.6
50°-60°	798.8	16.2
60°-70°	629.1	12.7
70°-80°	385.7	7.8
80°-90°	116.9	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°	1309.8	26.5
0°-40°	2142.1	43.3
0°-60°	3810.3	77.1
0°-90°	4942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1693	1693	1693	1693	1693	
5°	1681	1684	1690	1688	1686	160
15°	1612	1618	1629	1635	1631	455
25°	1475	1484	1501	1517	1511	680
35°	1291	1308	1333	1357	1356	807
45°	1075	1098	1130	1161	1166	829
55°	834	858	896	935	944	744
65°	564	593	638	681	700	557
75°	287	320	366	410	437	305
85°	52	77	111	123	138	67
90°	0	0	0	0	0	

TEST NUMBER: P1589823

CATALOG NUMBER: 24CZSP-SB-52-L930

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1693.4	1693.4	1693.4	1693.4	1693.4
2.5°	1687.1	1691.3	1696.6	1688.2	1684.0
5°	1680.9	1684.0	1690.3	1688.2	1686.1
7.5°	1669.4	1671.5	1679.8	1679.8	1677.7
10°	1655.8	1660.0	1667.3	1666.2	1661.0
12.5°	1638.0	1641.1	1649.5	1649.5	1646.4
15°	1611.8	1618.1	1628.6	1634.9	1630.7
17.5°	1584.6	1590.9	1604.5	1610.8	1608.7
20°	1554.3	1559.5	1573.1	1582.6	1578.4
22.5°	1516.7	1522.9	1538.6	1549.1	1544.9
25°	1474.8	1484.2	1501.0	1516.7	1511.4
27.5°	1433.0	1443.4	1464.4	1480.0	1478.0
30°	1387.0	1400.6	1422.5	1442.4	1438.2
32.5°	1339.9	1355.6	1378.6	1399.5	1398.5
35°	1290.7	1307.5	1332.6	1356.6	1355.6
37.5°	1238.4	1258.3	1284.5	1310.6	1311.6
40°	1187.2	1206.0	1235.3	1263.5	1264.6
42.5°	1132.8	1152.7	1184.0	1213.3	1214.4
45°	1075.3	1098.3	1129.6	1161.0	1166.3
47.5°	1016.7	1040.7	1073.2	1106.6	1112.9
50°	956.0	981.1	1015.6	1051.2	1057.5
52.5°	894.3	920.5	956.0	991.6	1001.0
55°	833.6	857.7	896.4	935.1	943.5
57.5°	769.8	791.8	833.6	874.4	884.9
60°	699.8	726.9	769.8	810.6	827.4
62.5°	631.8	661.1	705.0	745.8	764.6
65°	563.8	593.1	638.0	680.9	699.8
67.5°	494.7	525.1	573.2	614.0	634.9
70°	425.7	456.0	502.1	546.0	568.0
72.5°	356.7	389.1	434.1	479.1	501.0
75°	286.6	320.1	366.1	410.0	437.2
77.5°	220.7	253.1	299.1	344.1	367.1
80°	157.9	190.4	235.3	280.3	304.4
82.5°	100.4	130.7	174.7	212.3	234.3
85°	52.3	77.4	110.9	123.4	138.1
87.5°	15.7	30.3	42.9	48.1	59.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1589823

CATALOG NUMBER: 24CZSP-SB-52-L930

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	14.8	16.5	15.2	16.8	17.1	15.6	17.2	15.9	17.5	17.9
	3H	16.6	18.1	17.0	18.4	18.8	17.7	19.2	18.0	19.5	19.9
	4H	17.2	18.6	17.6	19.0	19.4	18.6	20.0	18.9	20.3	20.7
	6H	17.6	18.9	18.0	19.3	19.7	19.3	20.6	19.7	21.0	21.4
	8H	17.7	19.0	18.2	19.4	19.8	19.6	20.9	20.1	21.3	21.7
	12H	17.8	19.0	18.2	19.4	19.8	19.8	21.1	20.3	21.4	21.9
4H	2H	15.6	17.0	16.0	17.4	17.7	16.2	17.6	16.6	17.9	18.3
	3H	17.6	18.8	18.0	19.2	19.6	18.5	19.7	18.9	20.1	20.5
	4H	18.3	19.4	18.8	19.8	20.3	19.5	20.6	20.0	21.0	21.5
	6H	18.9	19.8	19.3	20.3	20.7	20.5	21.4	20.9	21.9	22.3
	8H	19.0	19.9	19.5	20.4	20.8	20.9	21.7	21.3	22.2	22.6
	12H	19.1	19.9	19.6	20.4	20.9	21.1	21.9	21.6	22.4	22.9
8H	4H	18.8	19.7	19.3	20.1	20.6	19.8	20.7	20.3	21.2	21.6
	6H	19.5	20.2	20.0	20.7	21.2	20.9	21.7	21.4	22.2	22.6
	8H	19.7	20.4	20.2	20.9	21.4	21.4	22.1	21.9	22.6	23.1
	12H	19.8	20.4	20.3	20.9	21.5	21.8	22.4	22.3	22.9	23.4
12H	4H	18.9	19.7	19.4	20.2	20.6	19.9	20.7	20.3	21.1	21.6
	6H	19.6	20.3	20.1	20.7	21.3	21.0	21.7	21.5	22.1	22.7
	8H	19.9	20.5	20.4	21.0	21.5	21.5	22.1	22.0	22.6	23.2

(END OF REPORT)