

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: P1589830

Luminaire Tested: 24CZSP-SB-52-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589830
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-52-L950-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

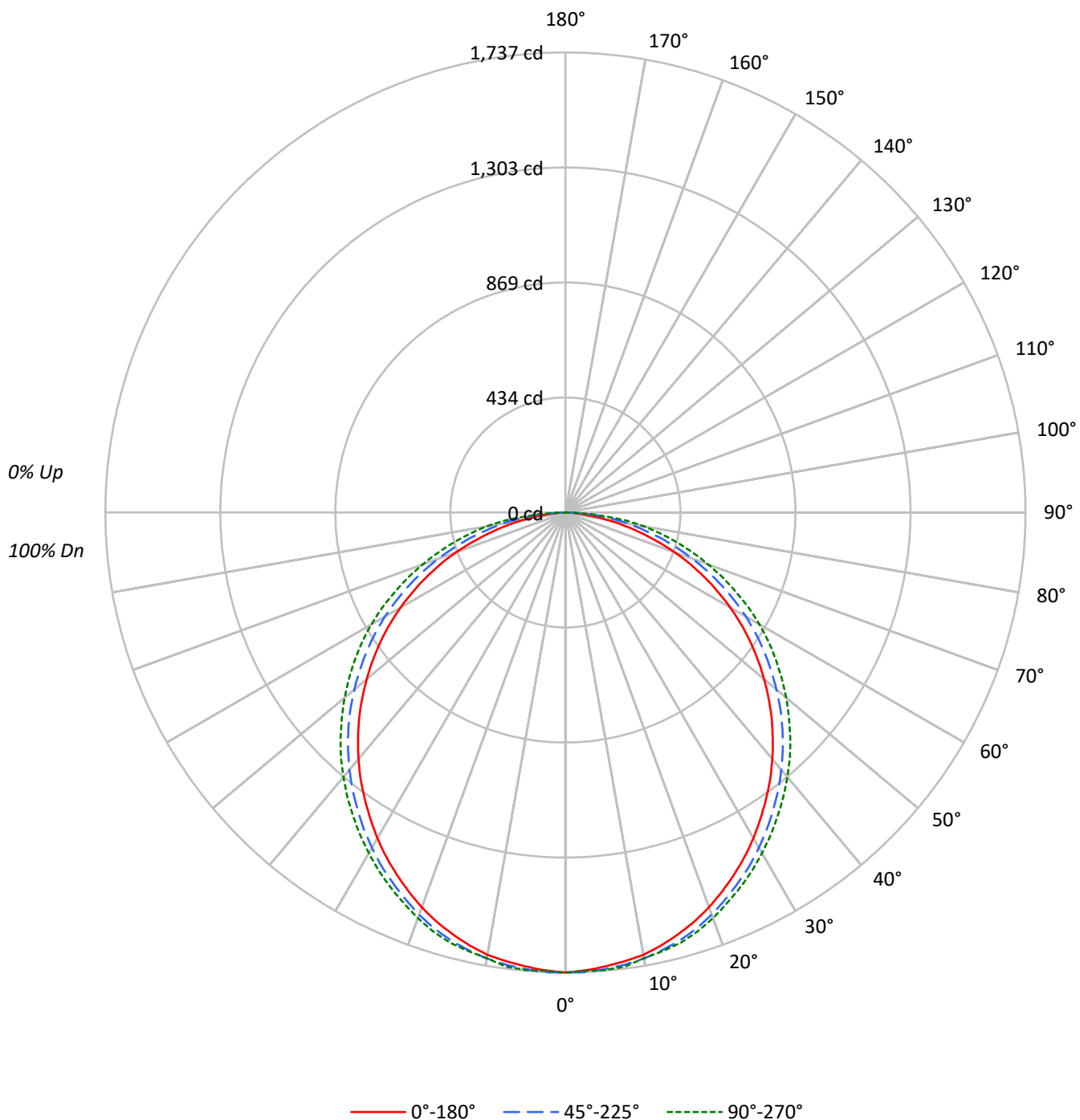
Lumens per Lamp: N/A
Luminaire Lumens: 5053.0 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1589830

CATALOG NUMBER: 24CZSP-SB-52-L950-S

Luminous Intensity Polar Plot



TEST NUMBER: P1589830

CATALOG NUMBER: 24CZSP-SB-52-L950-S

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°	2660	2660	2660
5°	2646	2661	2666
10°	2637	2659	2658
15°	2613	2651	2666
20°	2585	2633	2656
25°	2548	2607	2640
30°	2511	2584	2626
35°	2469	2559	2614
40°	2430	2536	2606
45°	2385	2510	2599
50°	2334	2479	2593
55°	2276	2447	2589
60°	2204	2411	2591
65°	2104	2360	2576
70°	1967	2288	2570
75°	1743	2200	2580
80°	1419	2090	2656
85°	917	1930	2292

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2692 cd/sqm

TEST NUMBER: P1589830

CATALOG NUMBER: 24CZSP-SB-52-L950-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	3.3
10°-20°	470.7	9.3
20°-30°	709.7	14.0
30°-40°	854.0	16.9
40°-50°	890.8	17.6
50°-60°	816.5	16.2
60°-70°	641.2	12.7
70°-80°	390.2	7.7
80°-90°	115.4	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°	1344.9	26.6
0°-40°	2198.9	43.5
0°-60°	3906.2	77.3
0°-90°	5053.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5053.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1737	1737	1737	1737	1737	
5°	1721	1732	1730	1728	1734	163
15°	1648	1664	1672	1674	1682	465
25°	1508	1528	1542	1552	1562	695
35°	1321	1341	1368	1388	1398	826
45°	1101	1124	1159	1186	1200	849
55°	852	874	916	953	970	762
65°	580	602	651	695	711	574
75°	295	322	372	416	436	312
85°	52	74	110	123	130	68
90°	0	0	0	0	0	

TEST NUMBER: P1589830

CATALOG NUMBER: 24CZSP-SB-52-L950-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1737.0	1737.0	1737.0	1737.0	1737.0
2.5°	1730.5	1739.2	1737.0	1729.4	1732.7
5°	1720.7	1731.6	1730.5	1728.4	1733.8
7.5°	1708.8	1720.7	1721.8	1721.8	1728.4
10°	1695.7	1707.7	1709.9	1706.6	1708.8
12.5°	1674.0	1688.1	1692.5	1692.5	1695.7
15°	1647.9	1664.2	1671.8	1674.0	1681.6
17.5°	1619.6	1637.0	1646.8	1652.3	1658.8
20°	1586.0	1604.4	1615.3	1621.8	1629.4
22.5°	1547.9	1568.6	1580.5	1587.0	1595.7
25°	1507.7	1528.3	1542.5	1552.3	1562.0
27.5°	1465.3	1484.9	1504.4	1516.4	1525.1
30°	1419.6	1440.3	1460.9	1476.2	1484.9
32.5°	1370.7	1392.5	1416.4	1432.7	1442.5
35°	1320.7	1341.4	1368.5	1388.1	1397.9
37.5°	1269.6	1291.4	1319.6	1340.3	1352.2
40°	1215.3	1238.1	1268.5	1291.4	1303.3
42.5°	1158.8	1180.5	1214.2	1240.3	1254.4
45°	1101.1	1124.0	1158.8	1185.9	1200.1
47.5°	1041.4	1063.1	1101.1	1132.7	1144.6
50°	979.4	1000.1	1040.3	1074.0	1088.1
52.5°	916.4	938.1	978.3	1014.2	1029.4
55°	852.2	874.0	916.4	953.3	969.6
57.5°	787.0	808.7	852.2	890.3	909.8
60°	719.6	741.3	787.0	826.1	845.7
62.5°	650.0	672.9	719.6	759.8	780.5
65°	580.5	602.2	651.1	694.6	710.9
67.5°	510.9	532.6	580.5	623.9	643.5
70°	439.2	464.2	510.9	556.6	573.9
72.5°	364.1	392.4	439.2	487.0	504.4
75°	294.6	321.8	371.8	416.3	435.9
77.5°	226.1	255.4	302.2	347.8	367.4
80°	160.9	189.1	237.0	280.4	301.1
82.5°	102.2	127.2	175.0	214.1	229.4
85°	52.2	73.9	109.8	122.8	130.4
87.5°	15.2	26.1	39.1	48.9	54.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1589830

CATALOG NUMBER: 24CZSP-SB-52-L950-S

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	14.9	16.6	15.3	16.9	17.2	15.6	17.3	16.0	17.6	17.9
	3H	16.7	18.2	17.0	18.5	18.9	17.7	19.2	18.1	19.5	19.9
	4H	17.3	18.7	17.7	19.1	19.4	18.6	20.0	19.0	20.3	20.7
	6H	17.7	19.0	18.1	19.4	19.8	19.3	20.6	19.7	21.0	21.4
	8H	17.8	19.1	18.2	19.4	19.8	19.6	20.9	20.0	21.3	21.7
	12H	17.8	19.1	18.3	19.4	19.9	19.8	21.0	20.2	21.4	21.8
4H	2H	15.7	17.1	16.1	17.4	17.8	16.2	17.7	16.6	18.0	18.4
	3H	17.7	18.9	18.1	19.3	19.7	18.6	19.7	19.0	20.1	20.5
	4H	18.4	19.5	18.8	19.9	20.3	19.6	20.7	20.0	21.1	21.5
	6H	18.9	19.9	19.4	20.3	20.8	20.5	21.4	20.9	21.9	22.3
	8H	19.1	20.0	19.5	20.4	20.9	20.8	21.7	21.3	22.2	22.6
	12H	19.2	20.0	19.6	20.4	20.9	21.1	21.9	21.6	22.4	22.8
8H	4H	18.8	19.7	19.3	20.2	20.6	19.9	20.8	20.3	21.2	21.7
	6H	19.5	20.3	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	19.9	20.4	20.4	20.9	21.5	21.7	22.3	22.3	22.8	23.4
12H	4H	18.9	19.7	19.4	20.2	20.7	19.9	20.7	20.4	21.2	21.6
	6H	19.6	20.3	20.2	20.8	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)