

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: P1589851

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589851
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-52HE-L950
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

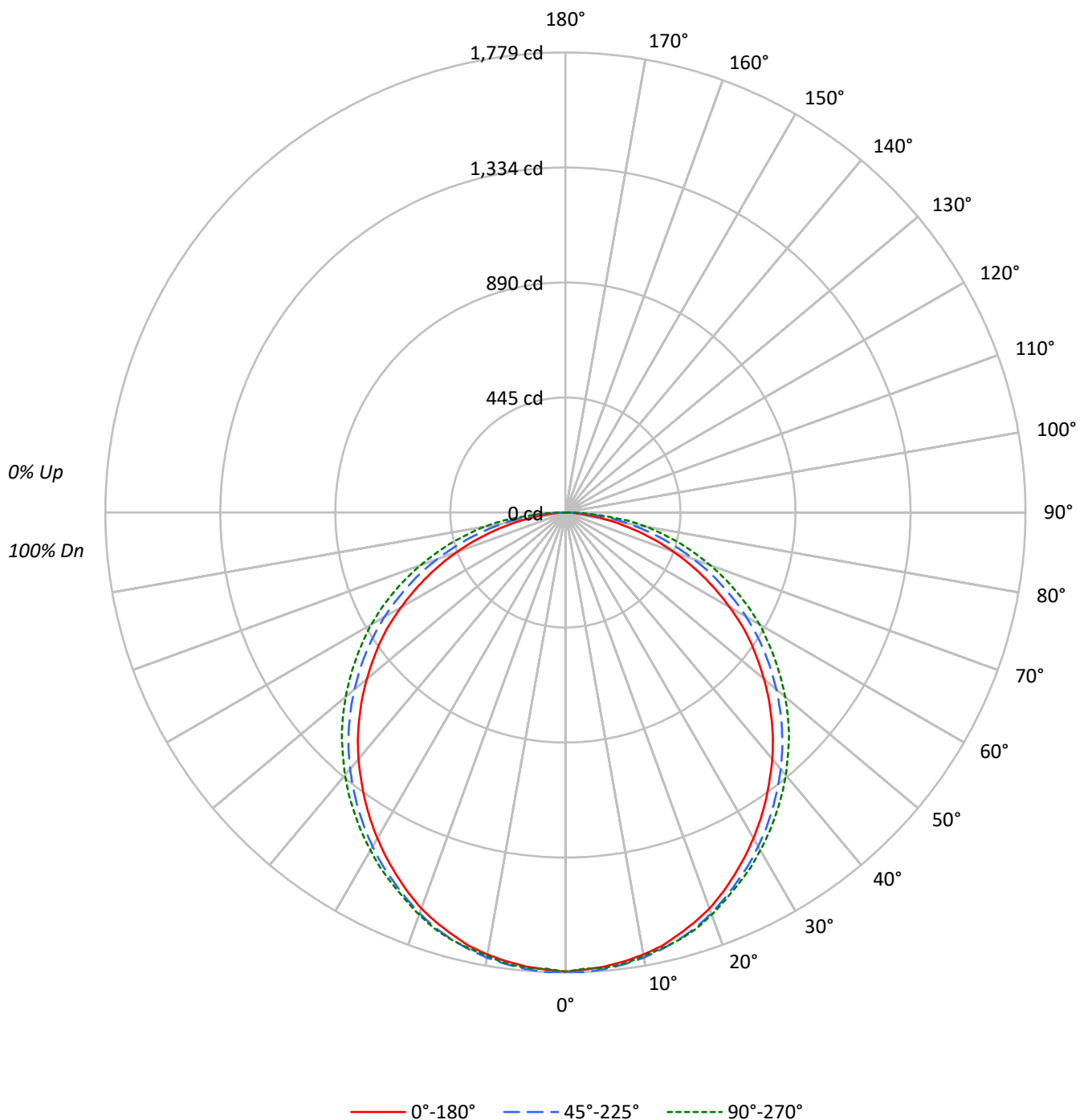
Lumens per Lamp: N/A
Luminaire Lumens: 5181.0 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1589851

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

Luminous Intensity Polar Plot



TEST NUMBER: P1589851

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

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°	2719	2719	2719
5°	2709	2724	2718
10°	2700	2718	2708
15°	2679	2707	2711
20°	2656	2688	2697
25°	2613	2659	2678
30°	2571	2637	2667
35°	2530	2612	2657
40°	2488	2589	2651
45°	2442	2565	2648
50°	2388	2537	2642
55°	2334	2509	2641
60°	2247	2472	2657
65°	2142	2424	2659
70°	1999	2357	2666
75°	1778	2271	2713
80°	1461	2176	2815
85°	963	2042	2543

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2882 cd/sqm

TEST NUMBER: P1589851

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	3.2
10°-20°	480.7	9.3
20°-30°	724.5	14.0
30°-40°	872.5	16.8
40°-50°	911.5	17.6
50°-60°	837.5	16.2
60°-70°	659.5	12.7
70°-80°	404.3	7.8
80°-90°	122.6	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°	1373.1	26.5
0°-40°	2245.6	43.3
0°-60°	3994.6	77.1
0°-90°	5181.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5181.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1762	1766	1772	1770	1768	167
15°	1690	1696	1707	1714	1710	477
25°	1546	1556	1574	1590	1584	713
35°	1353	1371	1397	1422	1421	846
45°	1127	1151	1184	1217	1223	870
55°	874	899	940	980	989	780
65°	591	622	669	714	734	584
75°	300	336	384	430	458	319
85°	55	81	116	129	145	70
90°	0	0	0	0	0	



TEST NUMBER: P1589851

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1775.3	1775.3	1775.3	1775.3	1775.3
2.5°	1768.7	1773.1	1778.6	1769.8	1765.5
5°	1762.2	1765.5	1772.0	1769.8	1767.6
7.5°	1750.1	1752.3	1761.1	1761.1	1758.9
10°	1735.8	1740.2	1747.9	1746.8	1741.3
12.5°	1717.2	1720.5	1729.3	1729.3	1726.0
15°	1689.8	1696.4	1707.3	1713.9	1709.5
17.5°	1661.3	1667.9	1682.1	1688.7	1686.5
20°	1629.5	1635.0	1649.2	1659.1	1654.7
22.5°	1590.0	1596.6	1613.0	1624.0	1619.6
25°	1546.1	1556.0	1573.6	1590.0	1584.5
27.5°	1502.3	1513.2	1535.2	1551.6	1549.4
30°	1454.0	1468.3	1491.3	1512.1	1507.8
32.5°	1404.7	1421.1	1445.3	1467.2	1466.1
35°	1353.1	1370.7	1397.0	1422.2	1421.1
37.5°	1298.3	1319.2	1346.6	1374.0	1375.1
40°	1244.6	1264.3	1295.0	1324.6	1325.7
42.5°	1187.6	1208.4	1241.3	1272.0	1273.1
45°	1127.3	1151.4	1184.3	1217.2	1222.7
47.5°	1065.9	1091.1	1125.1	1160.2	1166.7
50°	1002.3	1028.6	1064.8	1102.0	1108.6
52.5°	937.6	965.0	1002.3	1039.5	1049.4
55°	874.0	899.2	939.7	980.3	989.1
57.5°	807.1	830.1	874.0	916.7	927.7
60°	733.6	762.1	807.1	849.8	867.4
62.5°	662.3	693.0	739.1	781.8	801.6
65°	591.0	621.7	668.9	713.9	733.6
67.5°	518.7	550.5	600.9	643.7	665.6
70°	446.3	478.1	526.3	572.4	595.4
72.5°	373.9	407.9	455.1	502.2	525.2
75°	300.5	335.5	383.8	429.8	458.4
77.5°	231.4	265.4	313.6	360.8	384.9
80°	165.6	199.6	246.7	293.9	319.1
82.5°	105.3	137.1	183.1	222.6	245.6
85°	54.8	81.1	116.2	129.4	144.7
87.5°	16.4	31.8	45.0	50.4	62.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1589851

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

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	15.0	16.7	15.4	17.0	17.3	15.7	17.4	16.1	17.7	18.0
	3H	16.8	18.3	17.1	18.6	18.9	17.8	19.3	18.2	19.7	20.0
	4H	17.4	18.8	17.8	19.1	19.5	18.7	20.1	19.1	20.5	20.9
	6H	17.8	19.1	18.2	19.5	19.9	19.5	20.8	19.9	21.2	21.6
	8H	17.9	19.2	18.3	19.5	19.9	19.8	21.1	20.2	21.4	21.8
	12H	17.9	19.2	18.4	19.5	20.0	20.0	21.2	20.4	21.6	22.0
4H	2H	15.8	17.2	16.2	17.5	17.9	16.3	17.8	16.7	18.1	18.5
	3H	17.8	19.0	18.2	19.3	19.7	18.7	19.9	19.1	20.3	20.7
	4H	18.5	19.6	18.9	20.0	20.4	19.7	20.8	20.1	21.2	21.6
	6H	19.0	20.0	19.5	20.4	20.9	20.6	21.6	21.1	22.0	22.5
	8H	19.2	20.1	19.6	20.5	21.0	21.0	21.9	21.5	22.3	22.8
	12H	19.3	20.1	19.8	20.6	21.0	21.3	22.1	21.8	22.6	23.0
8H	4H	19.0	19.9	19.4	20.3	20.8	20.0	20.9	20.5	21.3	21.8
	6H	19.6	20.4	20.1	20.9	21.3	21.1	21.8	21.6	22.3	22.8
	8H	19.9	20.5	20.4	21.0	21.5	21.6	22.2	22.1	22.7	23.2
	12H	20.0	20.6	20.5	21.1	21.6	21.9	22.5	22.5	23.0	23.6
12H	4H	19.0	19.8	19.5	20.3	20.8	20.0	20.8	20.5	21.3	21.8
	6H	19.8	20.5	20.3	20.9	21.4	21.2	21.8	21.7	22.3	22.8
	8H	20.1	20.6	20.6	21.1	21.7	21.7	22.3	22.2	22.8	23.3

(END OF REPORT)