

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: P1589842

Luminaire Tested: 24CZSP-SB-52HE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589842
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-52HE-L930-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

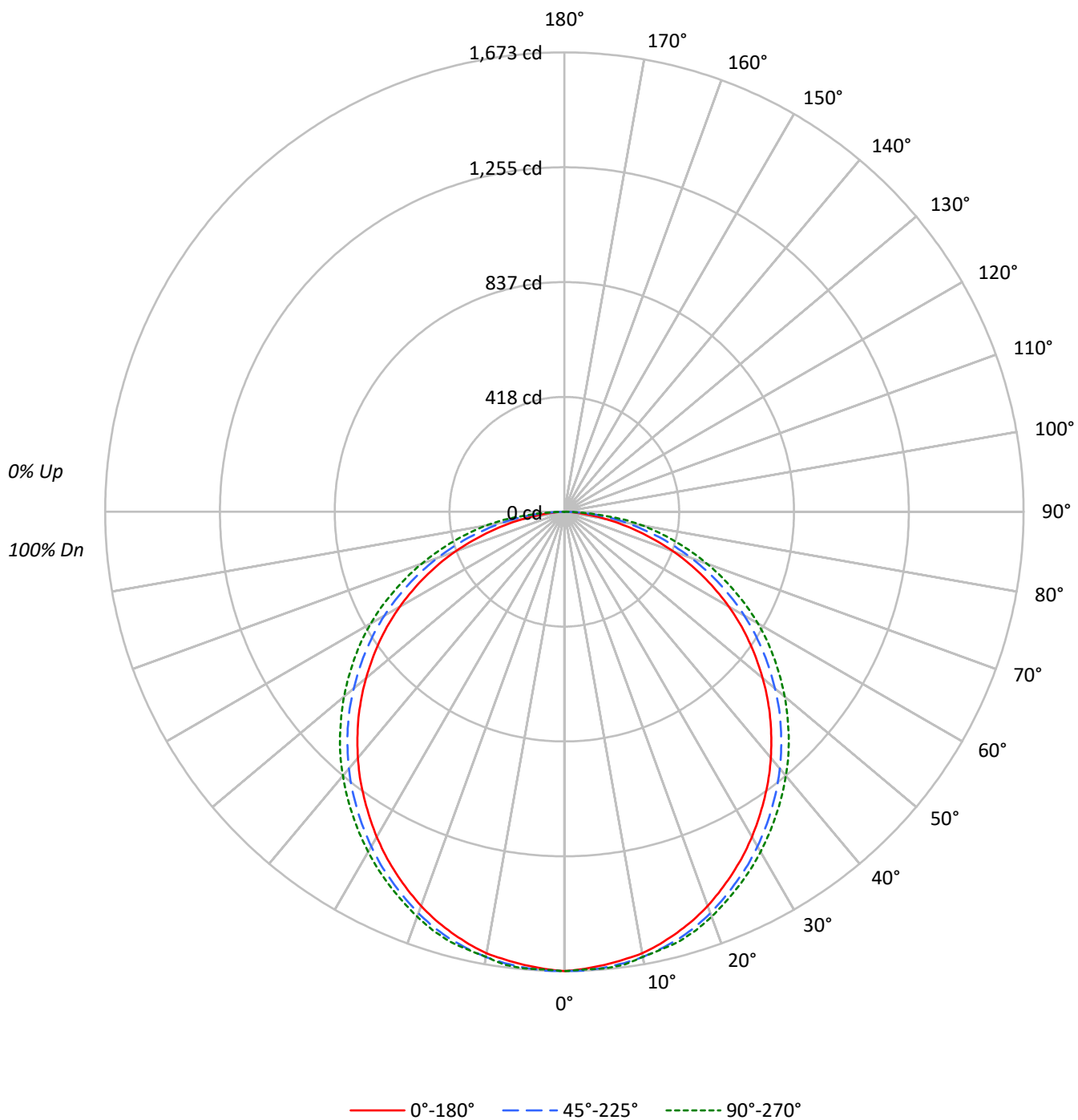
Lumens per Lamp: N/A
Luminaire Lumens: 4866.0 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1589842

CATALOG NUMBER: 24CZSP-SB-52HE-L930-S

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	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°	2562	2562	2562
5°	2548	2562	2567
10°	2540	2561	2559
15°	2516	2553	2568
20°	2489	2535	2558
25°	2454	2510	2542
30°	2418	2488	2529
35°	2378	2464	2517
40°	2340	2442	2509
45°	2297	2417	2503
50°	2247	2387	2497
55°	2192	2356	2493
60°	2123	2322	2495
65°	2026	2272	2481
70°	1894	2203	2475
75°	1679	2119	2484
80°	1366	2013	2558
85°	882	1858	2207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2592 cd/sqm

TEST NUMBER: P1589842

CATALOG NUMBER: 24CZSP-SB-52HE-L930-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	3.3
10°-20°	453.3	9.3
20°-30°	683.5	14.0
30°-40°	822.4	16.9
40°-50°	857.8	17.6
50°-60°	786.3	16.2
60°-70°	617.5	12.7
70°-80°	375.8	7.7
80°-90°	111.2	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°	1295.1	26.6
0°-40°	2117.5	43.5
0°-60°	3761.6	77.3
0°-90°	4866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1673	1673	1673	1673	1673	
5°	1657	1668	1666	1664	1670	157
15°	1587	1603	1610	1612	1619	448
25°	1452	1472	1485	1495	1504	669
35°	1272	1292	1318	1337	1346	796
45°	1060	1082	1116	1142	1156	818
55°	821	842	882	918	934	733
65°	559	580	627	669	685	553
75°	284	310	358	401	420	301
85°	50	71	106	118	126	65
90°	0	0	0	0	0	

TEST NUMBER: P1589842

CATALOG NUMBER: 24CZSP-SB-52HE-L930-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1672.8	1672.8	1672.8	1672.8	1672.8
2.5°	1666.5	1674.9	1672.8	1665.4	1668.6
5°	1657.1	1667.5	1666.5	1664.4	1669.6
7.5°	1645.5	1657.1	1658.1	1658.1	1664.4
10°	1633.0	1644.5	1646.6	1643.5	1645.5
12.5°	1612.0	1625.7	1629.8	1629.8	1633.0
15°	1586.9	1602.6	1610.0	1612.0	1619.4
17.5°	1559.7	1576.5	1585.9	1591.1	1597.4
20°	1527.3	1545.1	1555.5	1561.8	1569.1
22.5°	1490.6	1510.5	1522.0	1528.3	1536.7
25°	1451.9	1471.8	1485.4	1494.8	1504.2
27.5°	1411.1	1429.9	1448.8	1460.3	1468.6
30°	1367.1	1387.0	1406.9	1421.5	1429.9
32.5°	1320.0	1340.9	1364.0	1379.7	1389.1
35°	1271.8	1291.7	1317.9	1336.7	1346.2
37.5°	1222.6	1243.6	1270.8	1290.7	1302.2
40°	1170.3	1192.3	1221.6	1243.6	1255.1
42.5°	1115.9	1136.8	1169.3	1194.4	1208.0
45°	1060.4	1082.4	1115.9	1142.0	1155.7
47.5°	1002.8	1023.8	1060.4	1090.7	1102.3
50°	943.2	963.0	1001.8	1034.2	1047.8
52.5°	882.4	903.4	942.1	976.7	991.3
55°	820.7	841.6	882.4	918.0	933.7
57.5°	757.9	778.8	820.7	857.3	876.2
60°	693.0	713.9	757.9	795.6	814.4
62.5°	626.0	648.0	693.0	731.7	751.6
65°	559.0	579.9	627.0	668.9	684.6
67.5°	492.0	512.9	559.0	600.9	619.7
70°	422.9	447.0	492.0	536.0	552.7
72.5°	350.7	377.9	422.9	469.0	485.7
75°	283.7	309.8	358.0	400.9	419.8
77.5°	217.7	246.0	291.0	335.0	353.8
80°	154.9	182.1	228.2	270.1	290.0
82.5°	98.4	122.5	168.5	206.2	220.9
85°	50.2	71.2	105.7	118.3	125.6
87.5°	14.7	25.1	37.7	47.1	52.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1589842

CATALOG NUMBER: 24CZSP-SB-52HE-L930-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	14.8	16.4	15.1	16.7	17.1	15.5	17.2	15.9	17.5	17.8
	3H	16.5	18.0	16.9	18.4	18.7	17.6	19.1	18.0	19.4	19.8
	4H	17.2	18.6	17.6	18.9	19.3	18.4	19.9	18.8	20.2	20.6
	6H	17.6	18.9	18.0	19.2	19.6	19.2	20.5	19.6	20.9	21.3
	8H	17.7	18.9	18.1	19.3	19.7	19.5	20.7	19.9	21.1	21.5
	12H	17.7	18.9	18.1	19.3	19.7	19.7	20.9	20.1	21.3	21.7
4H	2H	15.5	17.0	15.9	17.3	17.7	16.1	17.5	16.5	17.9	18.2
	3H	17.5	18.7	17.9	19.1	19.5	18.4	19.6	18.8	20.0	20.4
	4H	18.3	19.4	18.7	19.8	20.2	19.4	20.5	19.9	20.9	21.4
	6H	18.8	19.7	19.3	20.2	20.6	20.3	21.3	20.8	21.7	22.2
	8H	18.9	19.8	19.4	20.3	20.7	20.7	21.6	21.2	22.0	22.5
	12H	19.0	19.8	19.5	20.3	20.8	21.0	21.8	21.4	22.2	22.7
8H	4H	18.7	19.6	19.2	20.0	20.5	19.7	20.6	20.2	21.1	21.5
	6H	19.4	20.1	19.9	20.6	21.1	20.8	21.5	21.3	22.0	22.5
	8H	19.6	20.3	20.1	20.8	21.2	21.3	21.9	21.8	22.4	22.9
	12H	19.7	20.3	20.2	20.8	21.4	21.6	22.2	22.1	22.7	23.3
12H	4H	18.8	19.6	19.3	20.1	20.5	19.8	20.6	20.2	21.0	21.5
	6H	19.5	20.2	20.0	20.6	21.2	20.9	21.5	21.4	22.0	22.5
	8H	19.8	20.4	20.3	20.9	21.4	21.4	22.0	21.9	22.5	23.0

(END OF REPORT)