

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: P1589850

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589850
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-L950-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

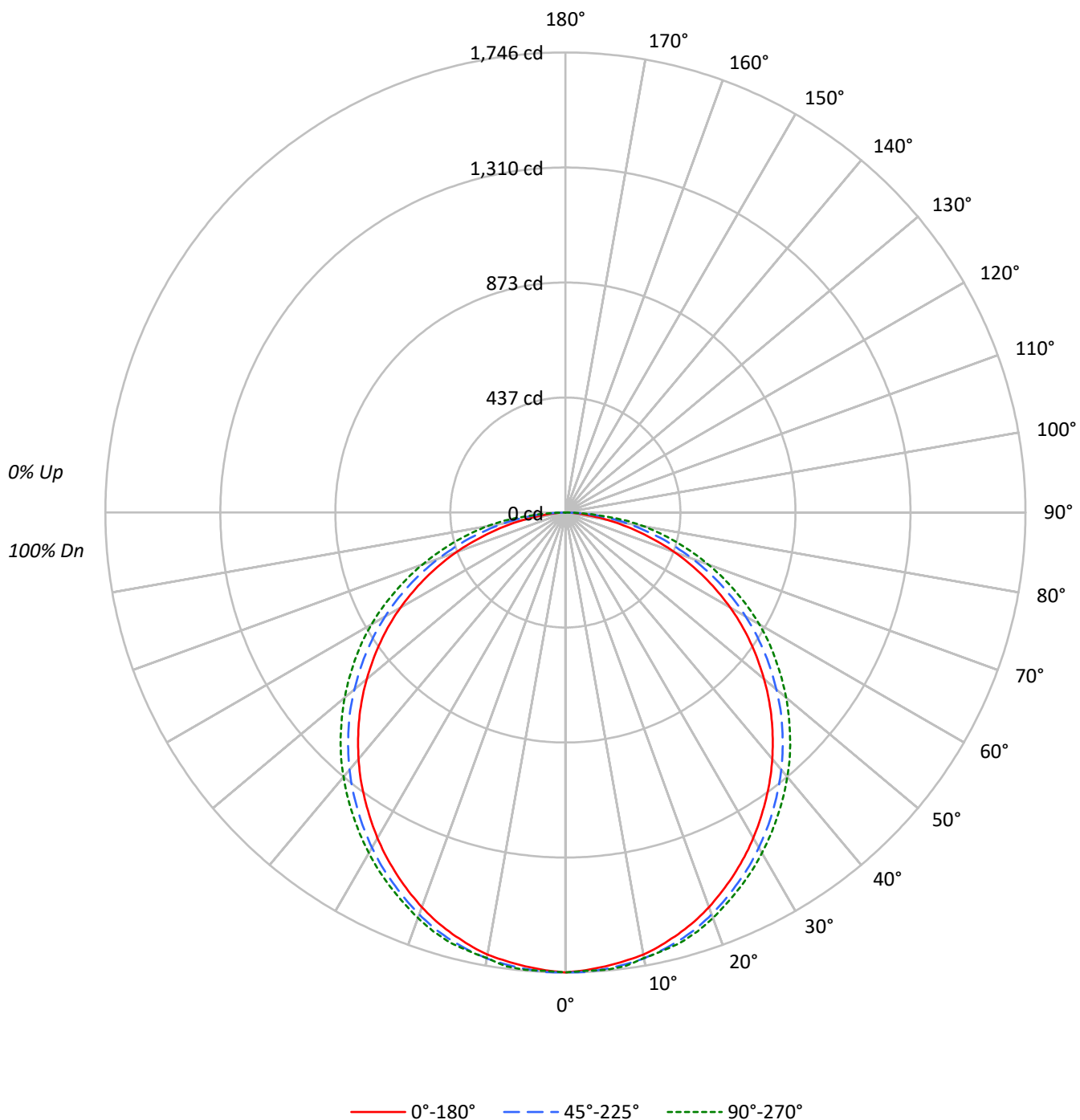
Lumens per Lamp: N/A
Luminaire Lumens: 5078.0 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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	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°	2674	2674	2674
5°	2659	2674	2679
10°	2650	2672	2671
15°	2626	2664	2680
20°	2598	2646	2669
25°	2560	2620	2653
30°	2523	2597	2639
35°	2482	2571	2627
40°	2442	2549	2619
45°	2397	2522	2612
50°	2345	2491	2606
55°	2287	2459	2602
60°	2215	2423	2603
65°	2114	2371	2589
70°	1976	2299	2583
75°	1752	2211	2592
80°	1426	2100	2669
85°	921	1938	2304

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2705 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	3.3
10°-20°	473.1	9.3
20°-30°	713.3	14.0
30°-40°	858.2	16.9
40°-50°	895.2	17.6
50°-60°	820.5	16.2
60°-70°	644.3	12.7
70°-80°	392.2	7.7
80°-90°	116.0	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°	1351.5	26.6
0°-40°	2209.7	43.5
0°-60°	3925.5	77.3
0°-90°	5078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1746	1746	1746	1746	1746	
5°	1729	1740	1739	1737	1742	164
15°	1656	1672	1680	1682	1690	467
25°	1515	1536	1550	1560	1570	698
35°	1327	1348	1375	1395	1405	831
45°	1107	1130	1164	1192	1206	853
55°	856	878	921	958	974	765
65°	583	605	654	698	714	577
75°	296	323	374	418	438	314
85°	52	74	110	123	131	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1745.6	1745.6	1745.6	1745.6	1745.6
2.5°	1739.1	1747.8	1745.6	1738.0	1741.3
5°	1729.3	1740.2	1739.1	1736.9	1742.4
7.5°	1717.2	1729.3	1730.3	1730.3	1736.9
10°	1704.1	1716.1	1718.3	1715.1	1717.2
12.5°	1682.3	1696.5	1700.9	1700.9	1704.1
15°	1656.1	1672.5	1680.1	1682.3	1689.9
17.5°	1627.7	1645.1	1655.0	1660.4	1667.0
20°	1593.8	1612.4	1623.3	1629.8	1637.5
22.5°	1555.6	1576.3	1588.3	1594.9	1603.6
25°	1515.1	1535.9	1550.1	1559.9	1569.8
27.5°	1472.5	1492.2	1511.9	1523.9	1532.6
30°	1426.7	1447.4	1468.2	1483.5	1492.2
32.5°	1377.5	1399.4	1423.4	1439.8	1449.6
35°	1327.3	1348.0	1375.3	1395.0	1404.8
37.5°	1275.9	1297.8	1326.2	1346.9	1358.9
40°	1221.3	1244.2	1274.8	1297.8	1309.8
42.5°	1164.5	1186.3	1220.2	1246.4	1260.6
45°	1106.6	1129.5	1164.5	1191.8	1206.0
47.5°	1046.5	1068.4	1106.6	1138.3	1150.3
50°	984.2	1005.0	1045.4	1079.3	1093.5
52.5°	920.9	942.7	983.2	1019.2	1034.5
55°	856.4	878.3	920.9	958.0	974.4
57.5°	790.9	812.7	856.4	894.7	914.3
60°	723.2	745.0	790.9	830.2	849.9
62.5°	653.2	676.2	723.2	763.6	784.3
65°	583.3	605.2	654.3	698.0	714.4
67.5°	513.4	535.3	583.3	627.0	646.7
70°	441.3	466.5	513.4	559.3	576.8
72.5°	366.0	394.4	441.3	489.4	506.9
75°	296.0	323.3	373.6	418.4	438.0
77.5°	227.2	256.7	303.7	349.6	369.2
80°	161.7	190.1	238.1	281.8	302.6
82.5°	102.7	127.8	175.9	215.2	230.5
85°	52.4	74.3	110.3	123.4	131.1
87.5°	15.3	26.2	39.3	49.2	54.6
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	14.9	16.6	15.3	16.9	17.2	15.7	17.3	16.0	17.6	17.9
	3H	16.7	18.2	17.1	18.5	18.9	17.7	19.2	18.1	19.6	19.9
	4H	17.3	18.7	17.7	19.1	19.4	18.6	20.0	19.0	20.4	20.7
	6H	17.7	19.0	18.1	19.4	19.8	19.3	20.7	19.8	21.0	21.4
	8H	17.8	19.1	18.2	19.5	19.9	19.6	20.9	20.1	21.3	21.7
	12H	17.9	19.1	18.3	19.5	19.9	19.8	21.0	20.3	21.4	21.8
4H	2H	15.7	17.1	16.1	17.5	17.8	16.3	17.7	16.7	18.0	18.4
	3H	17.7	18.9	18.1	19.3	19.7	18.6	19.8	19.0	20.2	20.6
	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	20.9	21.7	21.3	22.2	22.7
	12H	19.2	20.0	19.6	20.4	20.9	21.1	21.9	21.6	22.4	22.9
8H	4H	18.9	19.8	19.3	20.2	20.7	19.9	20.8	20.3	21.2	21.7
	6H	19.5	20.3	20.0	20.8	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	20.5	20.4	21.0	21.5	21.8	22.4	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	21.7
	6H	19.7	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	21.6	21.5	22.1	22.0	22.6	23.2

(END OF REPORT)