

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: P1589843

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589843
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-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

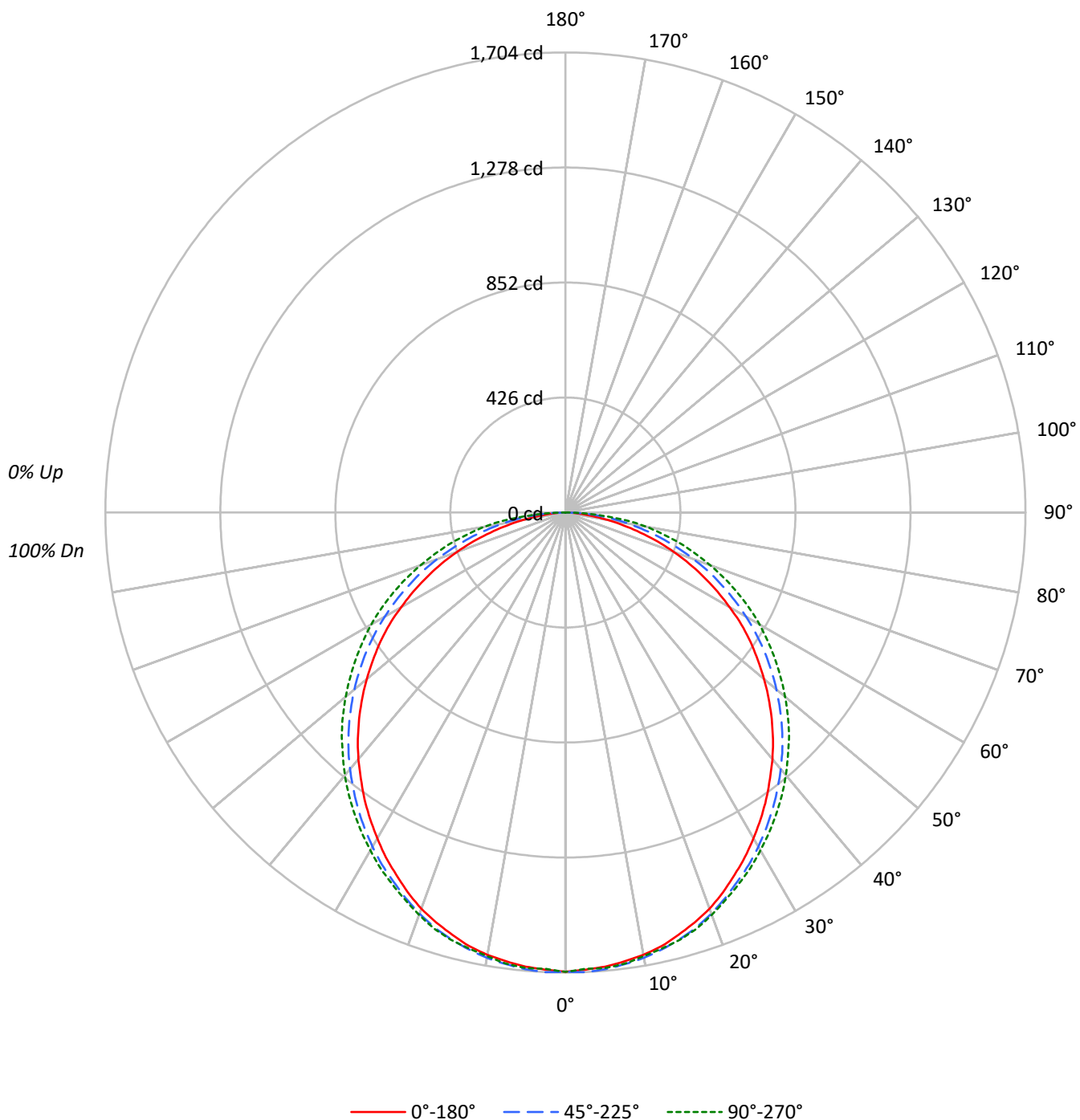
Lumens per Lamp: N/A
Luminaire Lumens: 4965.0 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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	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°	2606	2606	2606
5°	2596	2611	2604
10°	2587	2605	2595
15°	2568	2594	2598
20°	2545	2576	2585
25°	2504	2548	2566
30°	2464	2527	2555
35°	2425	2503	2546
40°	2385	2481	2540
45°	2340	2458	2538
50°	2289	2431	2531
55°	2236	2405	2531
60°	2153	2369	2546
65°	2053	2323	2548
70°	1915	2259	2555
75°	1704	2177	2600
80°	1400	2085	2697
85°	923	1958	2437

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2762 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	3.2
10°-20°	460.6	9.3
20°-30°	694.3	14.0
30°-40°	836.1	16.8
40°-50°	873.5	17.6
50°-60°	802.5	16.2
60°-70°	632.0	12.7
70°-80°	387.5	7.8
80°-90°	117.5	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°	1315.9	26.5
0°-40°	2152.0	43.3
0°-60°	3828.1	77.1
0°-90°	4965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1689	1692	1698	1696	1694	160
15°	1619	1626	1636	1642	1638	457
25°	1482	1491	1508	1524	1518	683
35°	1297	1314	1339	1363	1362	811
45°	1080	1103	1135	1166	1172	833
55°	838	862	901	939	948	747
65°	566	596	641	684	703	560
75°	288	322	368	412	439	306
85°	52	78	111	124	139	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1701.3	1701.3	1701.3	1701.3	1701.3
2.5°	1695.0	1699.2	1704.5	1696.1	1691.8
5°	1688.7	1691.8	1698.2	1696.1	1694.0
7.5°	1677.1	1679.2	1687.6	1687.6	1685.5
10°	1663.5	1667.7	1675.0	1674.0	1668.7
12.5°	1645.6	1648.8	1657.2	1657.2	1654.0
15°	1619.3	1625.6	1636.2	1642.5	1638.3
17.5°	1592.0	1598.3	1612.0	1618.3	1616.2
20°	1561.5	1566.8	1580.5	1589.9	1585.7
22.5°	1523.7	1530.0	1545.8	1556.3	1552.1
25°	1481.7	1491.1	1508.0	1523.7	1518.5
27.5°	1439.6	1450.2	1471.2	1486.9	1484.8
30°	1393.4	1407.1	1429.1	1449.1	1444.9
32.5°	1346.1	1361.9	1385.0	1406.0	1405.0
35°	1296.7	1313.5	1338.8	1362.9	1361.9
37.5°	1244.2	1264.2	1290.4	1316.7	1317.8
40°	1192.7	1211.6	1241.0	1269.4	1270.5
42.5°	1138.1	1158.0	1189.5	1219.0	1220.0
45°	1080.3	1103.4	1134.9	1166.4	1171.7
47.5°	1021.4	1045.6	1078.2	1111.8	1118.1
50°	960.5	985.7	1020.4	1056.1	1062.4
52.5°	898.5	924.7	960.5	996.2	1005.7
55°	837.5	861.7	900.6	939.4	947.9
57.5°	773.4	795.5	837.5	878.5	889.0
60°	703.0	730.3	773.4	814.4	831.2
62.5°	634.7	664.1	708.3	749.2	768.2
65°	566.4	595.8	641.0	684.1	703.0
67.5°	497.0	527.5	575.9	616.8	637.9
70°	427.7	458.2	504.4	548.5	570.6
72.5°	358.3	390.9	436.1	481.3	503.4
75°	287.9	321.6	367.8	411.9	439.3
77.5°	221.7	254.3	300.5	345.7	368.8
80°	158.7	191.3	236.4	281.6	305.8
82.5°	100.9	131.4	175.5	213.3	235.4
85°	52.5	77.8	111.4	124.0	138.7
87.5°	15.8	30.5	43.1	48.3	59.9
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	14.8	16.5	15.2	16.8	17.1	15.6	17.2	16.0	17.6	17.9
	3H	16.6	18.1	17.0	18.4	18.8	17.7	19.2	18.1	19.5	19.9
	4H	17.2	18.7	17.6	19.0	19.4	18.6	20.0	19.0	20.3	20.7
	6H	17.6	19.0	18.1	19.3	19.7	19.3	20.7	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	19.9	21.1	20.3	21.5	21.9
4H	2H	15.6	17.0	16.0	17.4	17.8	16.2	17.6	16.6	18.0	18.3
	3H	17.6	18.8	18.0	19.2	19.6	18.5	19.7	18.9	20.1	20.5
	4H	18.4	19.4	18.8	19.9	20.3	19.6	20.6	20.0	21.1	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	21.8	21.3	22.2	22.7
	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	19.9	20.7	20.3	21.2	21.7
	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	19.9	20.4	20.4	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	20.4	21.2	21.6
	6H	19.6	20.3	20.1	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)