

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: P1589819

Luminaire Tested: 24CZSP-SB-52-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589819
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-52-L845
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

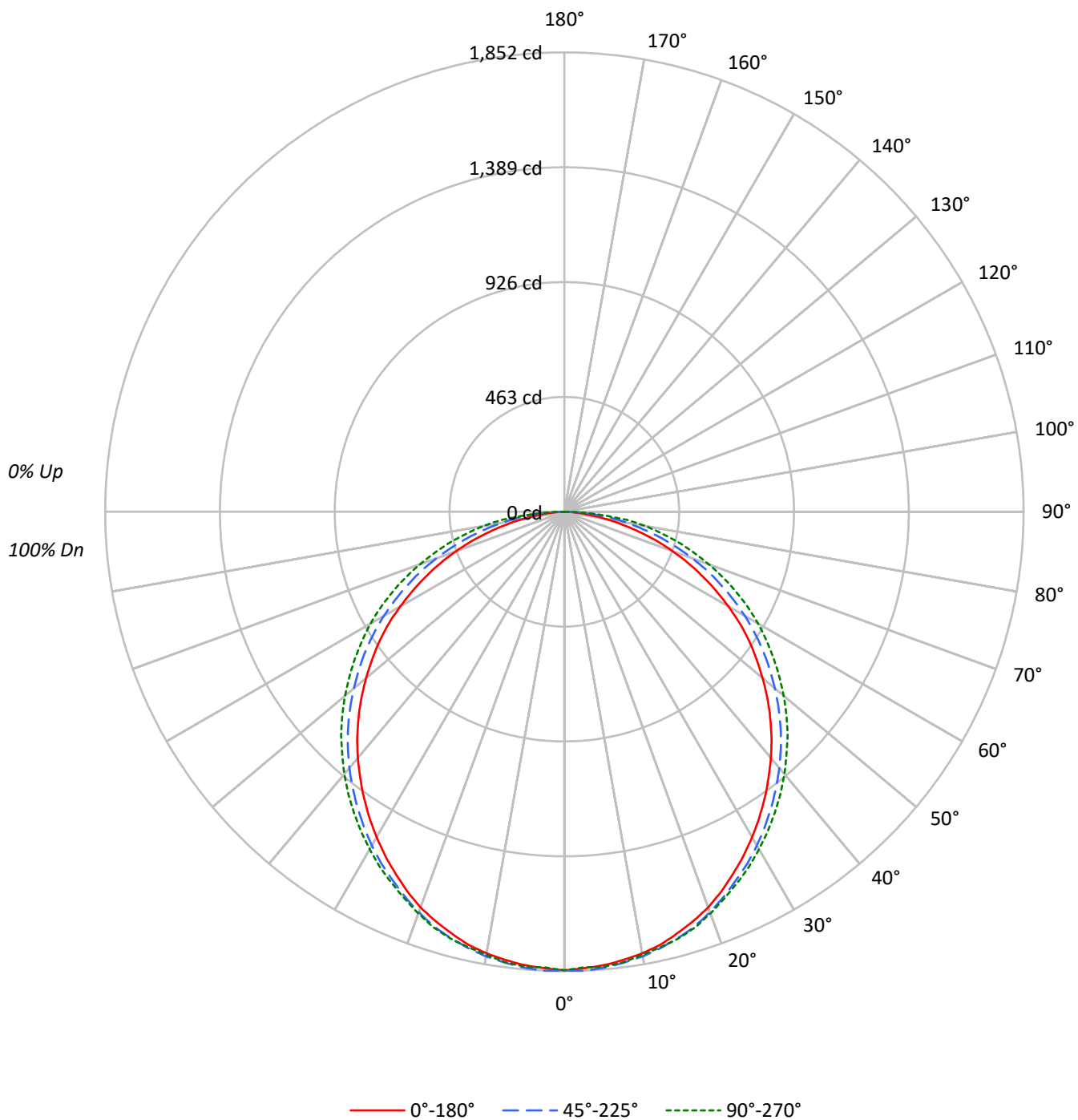
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5395.0 lumens
Efficiency: N/A
Efficacy: 147.0 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°	2832	2832	2832
5°	2821	2837	2830
10°	2811	2831	2820
15°	2790	2819	2823
20°	2766	2799	2808
25°	2721	2769	2788
30°	2678	2746	2777
35°	2635	2720	2767
40°	2591	2696	2760
45°	2543	2671	2758
50°	2487	2642	2751
55°	2430	2613	2750
60°	2340	2574	2767
65°	2231	2524	2768
70°	2081	2454	2776
75°	1852	2365	2825
80°	1521	2266	2931
85°	1003	2126	2648

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3002 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.9	3.2
10°-20°	500.5	9.3
20°-30°	754.4	14.0
30°-40°	908.5	16.8
40°-50°	949.2	17.6
50°-60°	872.0	16.2
60°-70°	686.7	12.7
70°-80°	421.0	7.8
80°-90°	127.6	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°	1429.9	26.5
0°-40°	2338.4	43.3
0°-60°	4159.6	77.1
0°-90°	5395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5395.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1849	1849	1849	1849	1849	
5°	1835	1838	1845	1843	1841	174
15°	1760	1766	1778	1785	1780	497
25°	1610	1620	1639	1656	1650	742
35°	1409	1427	1455	1481	1480	881
45°	1174	1199	1233	1268	1273	905
55°	910	936	979	1021	1030	812
65°	616	647	696	743	764	608
75°	313	349	400	448	477	333
85°	57	84	121	135	151	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1848.7	1848.7	1848.7	1848.7	1848.7
2.5°	1841.8	1846.4	1852.1	1842.9	1838.4
5°	1834.9	1838.4	1845.2	1842.9	1840.7
7.5°	1822.4	1824.7	1833.8	1833.8	1831.5
10°	1807.5	1812.1	1820.1	1819.0	1813.3
12.5°	1788.1	1791.6	1800.7	1800.7	1797.3
15°	1759.6	1766.4	1777.9	1784.7	1780.1
17.5°	1729.9	1736.7	1751.6	1758.4	1756.2
20°	1696.8	1702.5	1717.3	1727.6	1723.0
22.5°	1655.7	1662.5	1679.7	1691.1	1686.5
25°	1610.0	1620.3	1638.6	1655.7	1650.0
27.5°	1564.3	1575.7	1598.6	1615.7	1613.4
30°	1514.1	1528.9	1552.9	1574.6	1570.0
32.5°	1462.7	1479.8	1505.0	1527.8	1526.6
35°	1409.0	1427.3	1454.7	1481.0	1479.8
37.5°	1351.9	1373.6	1402.2	1430.7	1431.9
40°	1296.0	1316.5	1348.5	1379.4	1380.5
42.5°	1236.6	1258.3	1292.6	1324.5	1325.7
45°	1173.8	1198.9	1233.2	1267.5	1273.2
47.5°	1109.9	1136.1	1171.5	1208.1	1214.9
50°	1043.6	1071.1	1108.7	1147.6	1154.4
52.5°	976.3	1004.8	1043.6	1082.5	1092.7
55°	910.1	936.3	978.6	1020.8	1029.9
57.5°	840.4	864.4	910.1	954.6	966.0
60°	763.9	793.6	840.4	884.9	903.2
62.5°	689.7	721.6	769.6	814.1	834.7
65°	615.5	647.4	696.5	743.3	763.9
67.5°	540.1	573.2	625.7	670.3	693.1
70°	464.7	497.8	548.1	596.0	620.0
72.5°	389.4	424.8	473.9	523.0	546.9
75°	312.9	349.4	399.6	447.6	477.3
77.5°	240.9	276.3	326.6	375.7	400.8
80°	172.4	207.8	256.9	306.0	332.3
82.5°	109.6	142.7	190.7	231.8	255.8
85°	57.1	84.5	121.0	134.7	150.7
87.5°	17.1	33.1	46.8	52.5	65.1
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	15.1	16.8	15.5	17.1	17.4	15.9	17.5	16.2	17.9	18.2
	3H	16.9	18.4	17.3	18.7	19.1	18.0	19.5	18.3	19.8	20.2
	4H	17.5	18.9	17.9	19.3	19.7	18.9	20.3	19.3	20.6	21.0
	6H	17.9	19.2	18.3	19.6	20.0	19.6	20.9	20.0	21.3	21.7
	8H	18.0	19.3	18.5	19.7	20.1	19.9	21.2	20.4	21.6	22.0
	12H	18.1	19.3	18.5	19.7	20.1	20.1	21.4	20.6	21.7	22.2
4H	2H	15.9	17.3	16.3	17.7	18.0	16.5	17.9	16.9	18.2	18.6
	3H	17.9	19.1	18.3	19.5	19.9	18.8	20.0	19.2	20.4	20.8
	4H	18.6	19.7	19.1	20.1	20.6	19.8	20.9	20.3	21.3	21.8
	6H	19.2	20.1	19.6	20.6	21.0	20.8	21.7	21.2	22.2	22.6
	8H	19.3	20.2	19.8	20.7	21.1	21.2	22.0	21.6	22.5	23.0
	12H	19.4	20.2	19.9	20.7	21.2	21.4	22.2	21.9	22.7	23.2
8H	4H	19.1	20.0	19.6	20.4	20.9	20.1	21.0	20.6	21.5	21.9
	6H	19.8	20.5	20.3	21.0	21.5	21.2	22.0	21.7	22.5	22.9
	8H	20.0	20.7	20.5	21.2	21.7	21.7	22.4	22.2	22.9	23.4
	12H	20.1	20.7	20.6	21.2	21.8	22.1	22.7	22.6	23.2	23.7
12H	4H	19.2	20.0	19.7	20.5	20.9	20.2	21.0	20.6	21.4	21.9
	6H	19.9	20.6	20.4	21.0	21.6	21.3	22.0	21.8	22.4	23.0
	8H	20.2	20.8	20.7	21.3	21.8	21.8	22.4	22.3	22.9	23.5

(END OF REPORT)