

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: P1589835

Luminaire Tested: 24CZSP-SB-52HE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589835
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-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

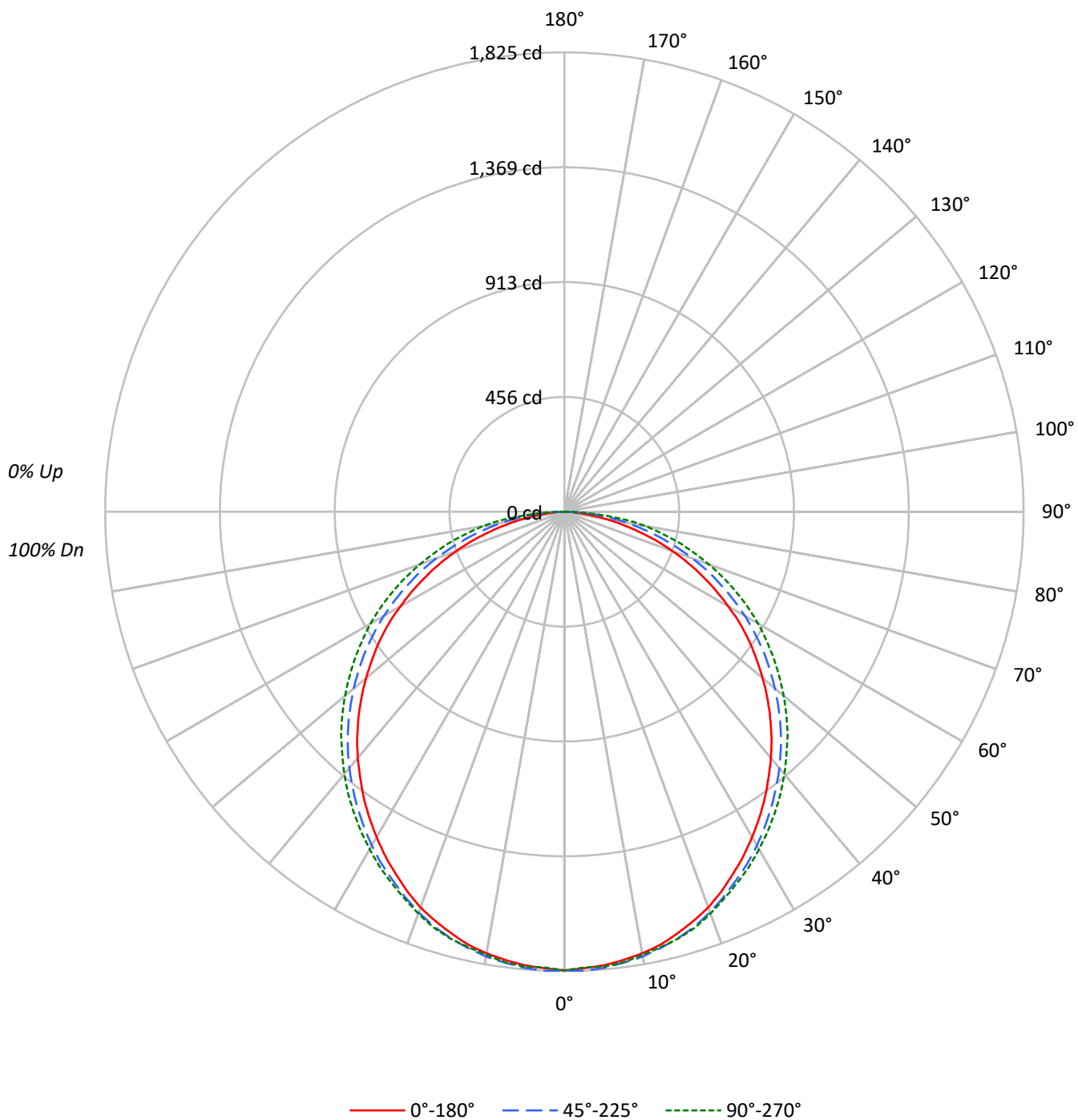
Lumens per Lamp: N/A
Luminaire Lumens: 5317.0 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2790	2790	2790
5°	2780	2796	2789
10°	2771	2790	2779
15°	2750	2778	2782
20°	2726	2759	2768
25°	2681	2729	2748
30°	2639	2707	2737
35°	2597	2681	2727
40°	2554	2657	2720
45°	2506	2633	2718
50°	2451	2604	2711
55°	2395	2575	2711
60°	2306	2537	2727
65°	2198	2488	2729
70°	2051	2419	2737
75°	1824	2331	2784
80°	1499	2233	2889
85°	989	2097	2610

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2958 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	3.2
10°-20°	493.3	9.3
20°-30°	743.5	14.0
30°-40°	895.4	16.8
40°-50°	935.5	17.6
50°-60°	859.4	16.2
60°-70°	676.8	12.7
70°-80°	414.9	7.8
80°-90°	125.8	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°	1409.2	26.5
0°-40°	2304.6	43.3
0°-60°	4099.5	77.1
0°-90°	5317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1822	1822	1822	1822	1822	
5°	1808	1812	1818	1816	1814	172
15°	1734	1741	1752	1759	1754	489
25°	1587	1597	1615	1632	1626	731
35°	1389	1407	1434	1460	1458	869
45°	1157	1182	1215	1249	1255	892
55°	897	923	964	1006	1015	800
65°	607	638	686	733	753	600
75°	308	344	394	441	470	328
85°	56	83	119	133	148	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1821.9	1821.9	1821.9	1821.9	1821.9
2.5°	1815.2	1819.7	1825.3	1816.3	1811.8
5°	1808.4	1811.8	1818.5	1816.3	1814.0
7.5°	1796.0	1798.3	1807.3	1807.3	1805.0
10°	1781.4	1785.9	1793.8	1792.7	1787.0
12.5°	1762.3	1765.7	1774.7	1774.7	1771.3
15°	1734.1	1740.9	1752.2	1758.9	1754.4
17.5°	1704.9	1711.6	1726.3	1733.0	1730.8
20°	1672.3	1677.9	1692.5	1702.6	1698.1
22.5°	1631.7	1638.5	1655.4	1666.6	1662.1
25°	1586.7	1596.9	1614.9	1631.7	1626.1
27.5°	1541.7	1553.0	1575.5	1592.4	1590.1
30°	1492.2	1506.8	1530.5	1551.8	1547.3
32.5°	1441.6	1458.4	1483.2	1505.7	1504.6
35°	1388.7	1406.7	1433.7	1459.6	1458.4
37.5°	1332.4	1353.8	1381.9	1410.0	1411.2
40°	1277.3	1297.5	1329.0	1359.4	1360.5
42.5°	1218.7	1240.1	1273.9	1305.4	1306.5
45°	1156.8	1181.6	1215.4	1249.1	1254.8
47.5°	1093.8	1119.7	1154.6	1190.6	1197.4
50°	1028.6	1055.6	1092.7	1131.0	1137.7
52.5°	962.2	990.3	1028.6	1066.8	1076.9
55°	896.9	922.8	964.4	1006.1	1015.1
57.5°	828.2	851.9	896.9	940.8	952.0
60°	752.9	782.1	828.2	872.1	890.1
62.5°	679.7	711.2	758.5	802.4	822.6
65°	606.6	638.1	686.5	732.6	752.9
67.5°	532.3	564.9	616.7	660.6	683.1
70°	458.0	490.6	540.2	587.4	611.1
72.5°	383.7	418.6	467.0	515.4	539.0
75°	308.3	344.4	393.9	441.1	470.4
77.5°	237.4	272.3	321.8	370.2	395.0
80°	169.9	204.8	253.2	301.6	327.5
82.5°	108.0	140.7	187.9	228.4	252.1
85°	56.3	83.3	119.3	132.8	148.5
87.5°	16.9	32.6	46.1	51.8	64.1
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	16.7	15.4	17.1	17.4	15.8	17.5	16.2	17.8	18.1
	3H	16.8	18.3	17.2	18.7	19.0	17.9	19.4	18.3	19.8	20.1
	4H	17.5	18.9	17.9	19.2	19.6	18.8	20.2	19.2	20.6	20.9
	6H	17.9	19.2	18.3	19.6	20.0	19.6	20.9	20.0	21.3	21.6
	8H	18.0	19.2	18.4	19.6	20.0	19.9	21.1	20.3	21.5	21.9
	12H	18.0	19.2	18.5	19.6	20.1	20.1	21.3	20.5	21.7	22.1
4H	2H	15.8	17.3	16.2	17.6	18.0	16.4	17.9	16.8	18.2	18.6
	3H	17.8	19.0	18.3	19.4	19.8	18.8	20.0	19.2	20.4	20.8
	4H	18.6	19.7	19.0	20.1	20.5	19.8	20.9	20.2	21.3	21.7
	6H	19.1	20.1	19.6	20.5	21.0	20.7	21.7	21.2	22.1	22.6
	8H	19.3	20.2	19.7	20.6	21.1	21.1	22.0	21.6	22.4	22.9
	12H	19.4	20.2	19.8	20.6	21.1	21.4	22.2	21.9	22.7	23.1
8H	4H	19.0	19.9	19.5	20.4	20.8	20.1	21.0	20.6	21.4	21.9
	6H	19.7	20.5	20.2	21.0	21.4	21.2	21.9	21.7	22.4	22.9
	8H	19.9	20.6	20.5	21.1	21.6	21.7	22.3	22.2	22.8	23.3
	12H	20.1	20.7	20.6	21.2	21.7	22.0	22.6	22.5	23.1	23.7
12H	4H	19.1	19.9	19.6	20.4	20.9	20.1	20.9	20.6	21.4	21.9
	6H	19.9	20.5	20.4	21.0	21.5	21.2	21.9	21.8	22.4	22.9
	8H	20.1	20.7	20.7	21.2	21.8	21.8	22.4	22.3	22.9	23.4

(END OF REPORT)