

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: P1589834

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589834
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-L835-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

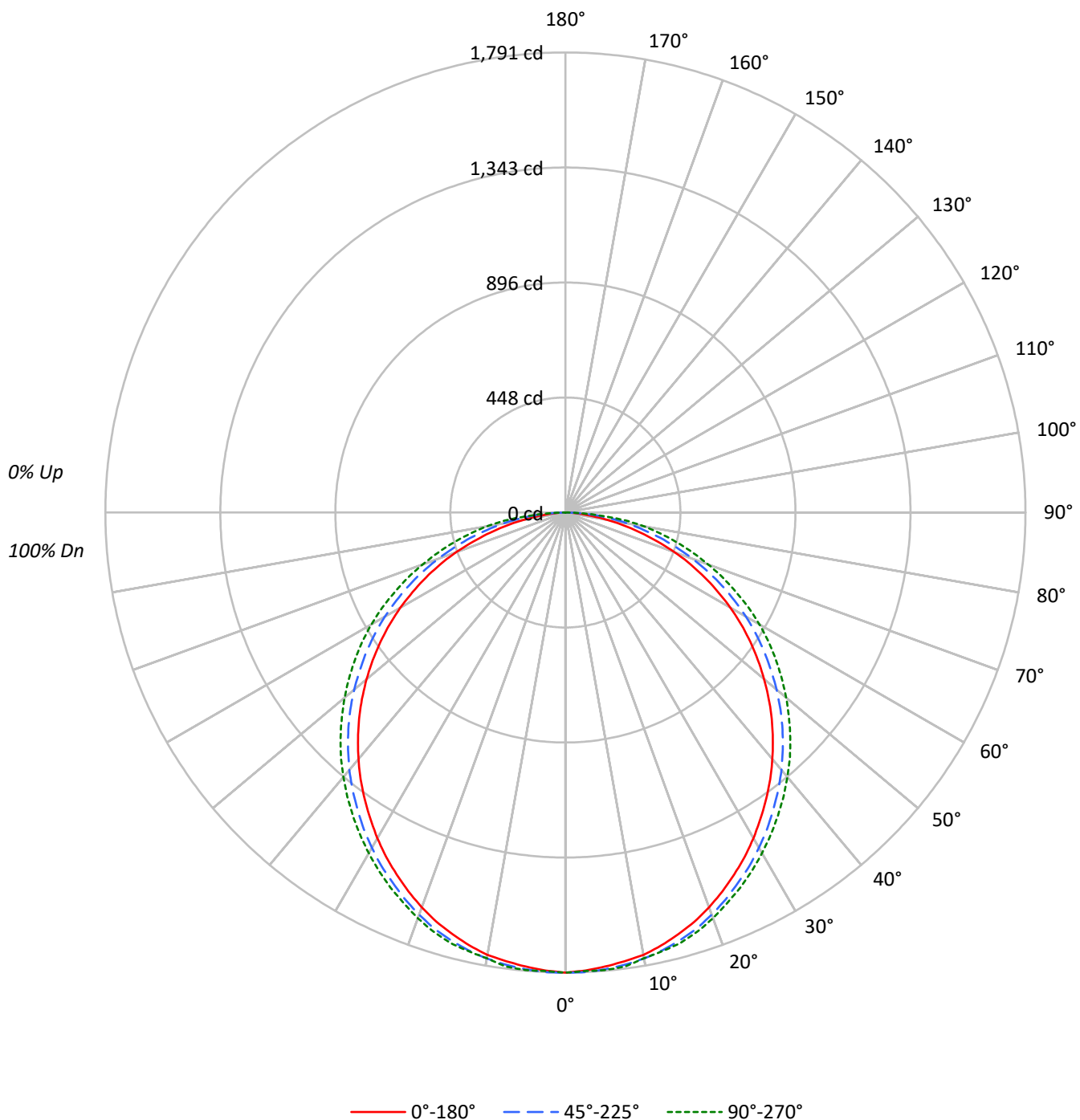
Lumens per Lamp: N/A
Luminaire Lumens: 5211.0 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2744	2744	2744
5°	2728	2744	2749
10°	2720	2742	2741
15°	2695	2734	2750
20°	2666	2715	2739
25°	2628	2688	2722
30°	2589	2665	2708
35°	2547	2639	2695
40°	2506	2616	2687
45°	2460	2588	2681
50°	2407	2556	2674
55°	2347	2523	2670
60°	2273	2486	2671
65°	2169	2434	2657
70°	2028	2360	2651
75°	1798	2269	2660
80°	1463	2156	2739
85°	945	1989	2364

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2775 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	3.3
10°-20°	485.5	9.3
20°-30°	731.9	14.0
30°-40°	880.7	16.9
40°-50°	918.7	17.6
50°-60°	842.0	16.2
60°-70°	661.2	12.7
70°-80°	402.4	7.7
80°-90°	119.0	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°	1386.9	26.6
0°-40°	2267.6	43.5
0°-60°	4028.3	77.3
0°-90°	5211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1791	1791	1791	1791	1791	
5°	1774	1786	1785	1782	1788	169
15°	1699	1716	1724	1726	1734	479
25°	1555	1576	1591	1601	1611	717
35°	1362	1383	1411	1432	1442	852
45°	1136	1159	1195	1223	1238	876
55°	879	901	945	983	1000	785
65°	599	621	672	716	733	592
75°	304	332	383	429	450	322
85°	54	76	113	127	134	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1791.4	1791.4	1791.4	1791.4	1791.4
2.5°	1784.6	1793.6	1791.4	1783.5	1786.9
5°	1774.5	1785.8	1784.6	1782.4	1788.0
7.5°	1762.2	1774.5	1775.7	1775.7	1782.4
10°	1748.8	1761.1	1763.3	1760.0	1762.2
12.5°	1726.3	1740.9	1745.4	1745.4	1748.8
15°	1699.4	1716.3	1724.1	1726.3	1734.2
17.5°	1670.3	1688.2	1698.3	1703.9	1710.6
20°	1635.5	1654.6	1665.8	1672.5	1680.4
22.5°	1596.3	1617.6	1629.9	1636.7	1645.6
25°	1554.8	1576.1	1590.7	1600.8	1610.9
27.5°	1511.1	1531.3	1551.5	1563.8	1572.8
30°	1464.0	1485.3	1506.6	1522.3	1531.3
32.5°	1413.6	1436.0	1460.7	1477.5	1487.6
35°	1362.0	1383.3	1411.3	1431.5	1441.6
37.5°	1309.3	1331.8	1360.9	1382.2	1394.5
40°	1253.3	1276.8	1308.2	1331.8	1344.1
42.5°	1195.0	1217.4	1252.2	1279.1	1293.6
45°	1135.6	1159.1	1195.0	1223.0	1237.6
47.5°	1073.9	1096.3	1135.6	1168.1	1180.4
50°	1010.0	1031.3	1072.8	1107.6	1122.1
52.5°	945.0	967.4	1008.9	1045.9	1061.6
55°	878.9	901.3	945.0	983.1	999.9
57.5°	811.6	834.0	878.9	918.1	938.3
60°	742.1	764.5	811.6	852.0	872.1
62.5°	670.4	693.9	742.1	783.6	804.9
65°	598.6	621.0	671.5	716.3	733.1
67.5°	526.9	549.3	598.6	643.5	663.6
70°	452.9	478.7	526.9	574.0	591.9
72.5°	375.5	404.7	452.9	502.2	520.1
75°	303.8	331.8	383.4	429.3	449.5
77.5°	233.2	263.4	311.6	358.7	378.9
80°	165.9	195.1	244.4	289.2	310.5
82.5°	105.4	131.2	180.5	220.8	236.5
85°	53.8	76.2	113.2	126.7	134.5
87.5°	15.7	26.9	40.4	50.4	56.1
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	15.0	16.7	15.4	17.0	17.3	15.7	17.4	16.1	17.7	18.0
	3H	16.8	18.3	17.2	18.6	19.0	17.8	19.3	18.2	19.7	20.0
	4H	17.4	18.8	17.8	19.2	19.5	18.7	20.1	19.1	20.5	20.8
	6H	17.8	19.1	18.2	19.5	19.9	19.4	20.7	19.8	21.1	21.5
	8H	17.9	19.2	18.3	19.6	20.0	19.7	21.0	20.1	21.4	21.8
	12H	18.0	19.2	18.4	19.5	20.0	19.9	21.1	20.3	21.5	21.9
4H	2H	15.8	17.2	16.2	17.5	17.9	16.3	17.8	16.7	18.1	18.5
	3H	17.8	19.0	18.2	19.4	19.8	18.7	19.9	19.1	20.3	20.7
	4H	18.5	19.6	18.9	20.0	20.4	19.7	20.8	20.1	21.2	21.6
	6H	19.0	20.0	19.5	20.4	20.9	20.6	21.5	21.0	22.0	22.4
	8H	19.2	20.1	19.6	20.5	21.0	20.9	21.8	21.4	22.3	22.7
	12H	19.3	20.1	19.7	20.5	21.0	21.2	22.0	21.7	22.5	22.9
8H	4H	19.0	19.8	19.4	20.3	20.7	20.0	20.9	20.4	21.3	21.8
	6H	19.6	20.4	20.1	20.8	21.3	21.0	21.8	21.5	22.3	22.7
	8H	19.8	20.5	20.3	21.0	21.5	21.5	22.2	22.0	22.7	23.2
	12H	20.0	20.6	20.5	21.0	21.6	21.9	22.4	22.4	22.9	23.5
12H	4H	19.0	19.8	19.5	20.3	20.8	20.0	20.8	20.5	21.3	21.7
	6H	19.8	20.4	20.3	20.9	21.4	21.1	21.8	21.6	22.2	22.8
	8H	20.0	20.6	20.5	21.1	21.7	21.6	22.2	22.1	22.7	23.3

(END OF REPORT)