

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: P1589833

Luminaire Tested: 24CZSP-SB-52HE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589833
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-L830
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

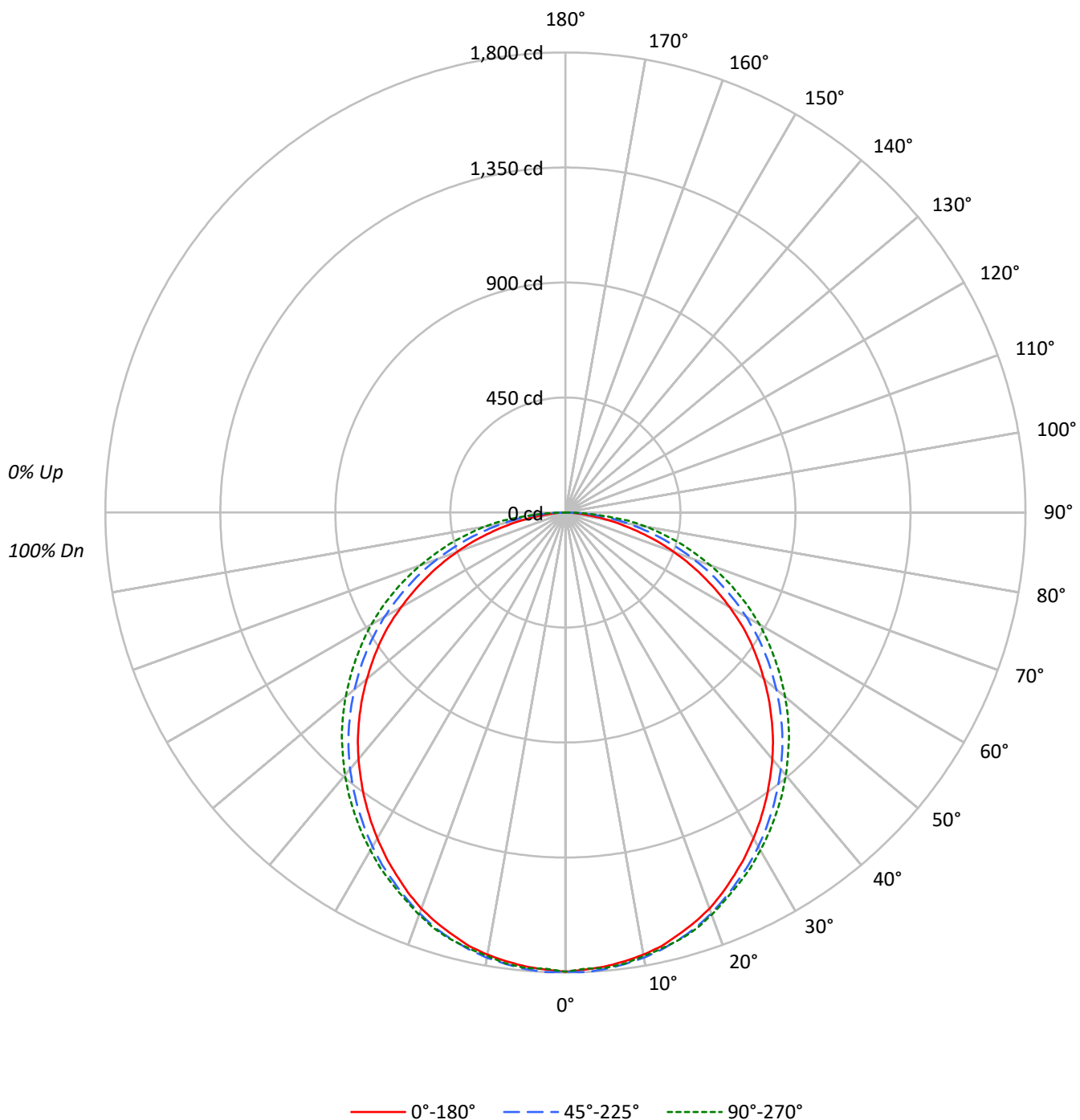
Lumens per Lamp: N/A
Luminaire Lumens: 5243.0 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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°	2752	2752	2752
5°	2742	2757	2750
10°	2732	2751	2741
15°	2711	2740	2743
20°	2688	2720	2729
25°	2644	2691	2710
30°	2602	2669	2698
35°	2560	2643	2689
40°	2518	2620	2682
45°	2471	2596	2680
50°	2417	2567	2673
55°	2362	2539	2673
60°	2274	2502	2689
65°	2168	2453	2691
70°	2022	2385	2699
75°	1800	2298	2745
80°	1478	2202	2848
85°	975	2067	2575

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2917 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	3.2
10°-20°	486.4	9.3
20°-30°	733.2	14.0
30°-40°	882.9	16.8
40°-50°	922.4	17.6
50°-60°	847.5	16.2
60°-70°	667.4	12.7
70°-80°	409.2	7.8
80°-90°	124.1	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°	1389.6	26.5
0°-40°	2272.5	43.3
0°-60°	4042.4	77.1
0°-90°	5243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5243.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1797	1797	1797	1797	1797	
5°	1783	1787	1793	1791	1789	169
15°	1710	1717	1728	1734	1730	483
25°	1565	1575	1592	1609	1604	721
35°	1369	1387	1414	1439	1438	856
45°	1141	1165	1198	1232	1237	880
55°	884	910	951	992	1001	789
65°	598	629	677	722	742	591
75°	304	340	388	435	464	323
85°	56	82	118	131	146	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1796.6	1796.6	1796.6	1796.6	1796.6
2.5°	1789.9	1794.3	1799.9	1791.0	1786.6
5°	1783.3	1786.6	1793.2	1791.0	1788.8
7.5°	1771.0	1773.3	1782.1	1782.1	1779.9
10°	1756.6	1761.1	1768.8	1767.7	1762.2
12.5°	1737.8	1741.1	1750.0	1750.0	1746.6
15°	1710.0	1716.7	1727.8	1734.4	1730.0
17.5°	1681.2	1687.8	1702.2	1708.9	1706.7
20°	1649.0	1654.5	1669.0	1678.9	1674.5
22.5°	1609.0	1615.7	1632.3	1643.4	1639.0
25°	1564.6	1574.6	1592.4	1609.0	1603.5
27.5°	1520.3	1531.4	1553.5	1570.2	1568.0
30°	1471.4	1485.9	1509.2	1530.2	1525.8
32.5°	1421.5	1438.1	1462.6	1484.7	1483.6
35°	1369.3	1387.1	1413.7	1439.3	1438.1
37.5°	1313.9	1334.9	1362.7	1390.4	1391.5
40°	1259.5	1279.5	1310.5	1340.5	1341.6
42.5°	1201.8	1222.9	1256.2	1287.2	1288.3
45°	1140.7	1165.2	1198.5	1231.7	1237.3
47.5°	1078.6	1104.1	1138.5	1174.0	1180.7
50°	1014.2	1040.9	1077.5	1115.2	1121.9
52.5°	948.8	976.5	1014.2	1052.0	1062.0
55°	884.4	909.9	951.0	992.1	1000.9
57.5°	816.7	840.0	884.4	927.7	938.8
60°	742.4	771.2	816.7	860.0	877.8
62.5°	670.2	701.3	747.9	791.2	811.2
65°	598.1	629.2	676.9	722.4	742.4
67.5°	524.9	557.1	608.1	651.4	673.6
70°	451.6	483.8	532.6	579.3	602.6
72.5°	378.4	412.8	460.5	508.2	531.5
75°	304.1	339.6	388.4	435.0	463.8
77.5°	234.1	268.5	317.4	365.1	389.5
80°	167.6	202.0	249.7	297.4	322.9
82.5°	106.5	138.7	185.3	225.3	248.6
85°	55.5	82.1	117.6	130.9	146.5
87.5°	16.6	32.2	45.5	51.0	63.3
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	15.8	17.4	16.1	17.8	18.1
	3H	16.8	18.3	17.2	18.6	19.0	17.9	19.4	18.2	19.7	20.1
	4H	17.4	18.8	17.8	19.2	19.6	18.8	20.2	19.2	20.5	20.9
	6H	17.8	19.2	18.2	19.5	19.9	19.5	20.8	19.9	21.2	21.6
	8H	17.9	19.2	18.4	19.6	20.0	19.8	21.1	20.3	21.5	21.9
	12H	18.0	19.2	18.4	19.6	20.0	20.0	21.3	20.5	21.6	22.1
4H	2H	15.8	17.2	16.2	17.6	17.9	16.4	17.8	16.8	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	19.0	20.0	20.5	19.7	20.8	20.2	21.2	21.7
	6H	19.1	20.0	19.5	20.5	20.9	20.7	21.6	21.1	22.1	22.5
	8H	19.2	20.1	19.7	20.6	21.0	21.1	21.9	21.5	22.4	22.9
	12H	19.3	20.1	19.8	20.6	21.1	21.3	22.1	21.8	22.6	23.1
8H	4H	19.0	19.9	19.5	20.3	20.8	20.0	20.9	20.5	21.4	21.8
	6H	19.7	20.4	20.2	20.9	21.4	21.1	21.9	21.6	22.4	22.8
	8H	19.9	20.6	20.4	21.1	21.6	21.6	22.3	22.1	22.8	23.3
	12H	20.0	20.6	20.6	21.1	21.7	22.0	22.6	22.5	23.1	23.6
12H	4H	19.1	19.9	19.6	20.4	20.8	20.1	20.9	20.5	21.3	21.8
	6H	19.8	20.5	20.3	20.9	21.5	21.2	21.9	21.7	22.3	22.9
	8H	20.1	20.7	20.6	21.2	21.7	21.7	22.3	22.2	22.8	23.4

(END OF REPORT)