

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: P1589872

Luminaire Tested: 24CZSP-SB-57HE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589872
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-57HE-L830-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 5500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

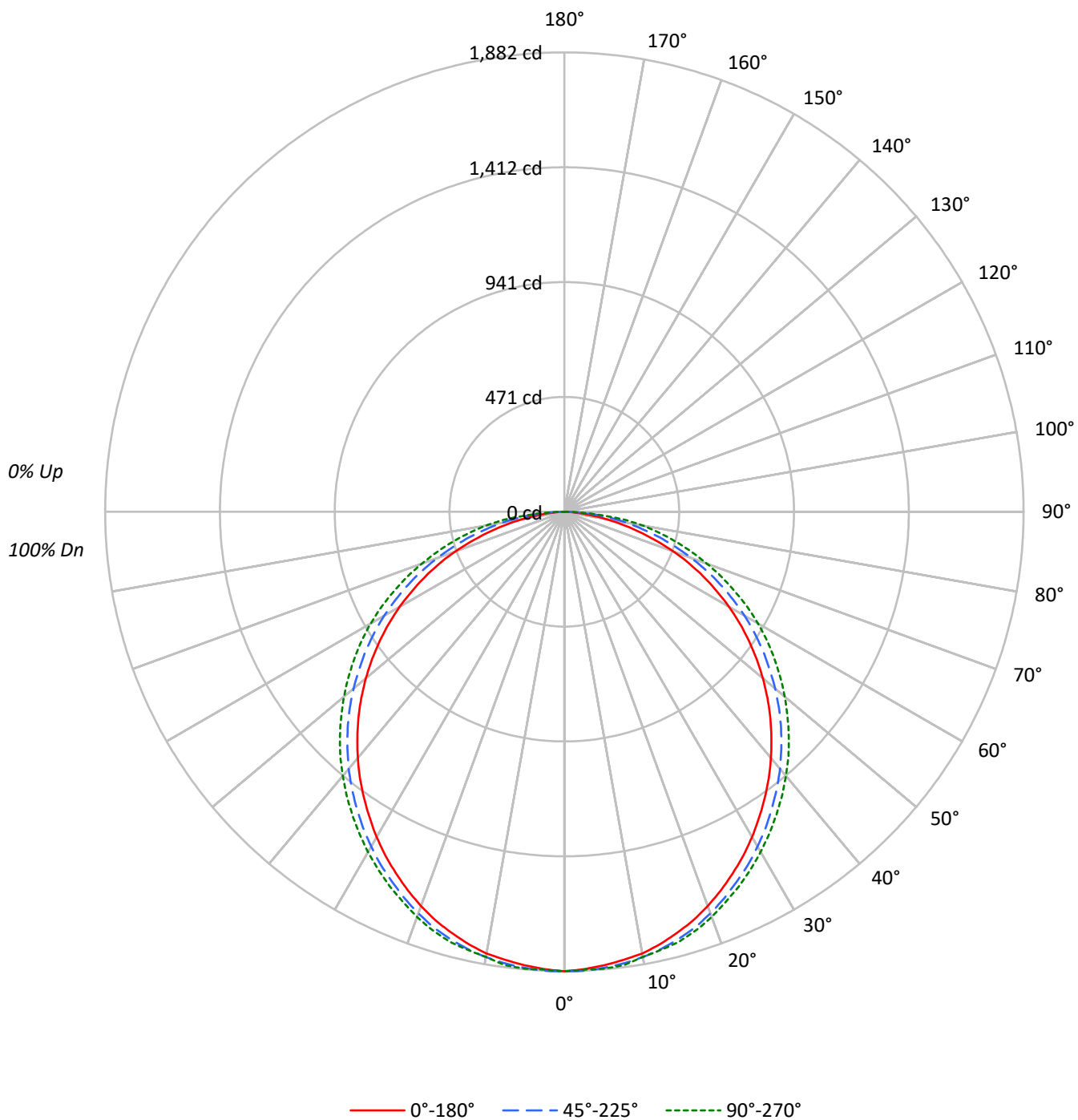
Lumens per Lamp: N/A
Luminaire Lumens: 5476.0 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 39.4
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°	2883	2883	2883
5°	2867	2883	2889
10°	2858	2882	2880
15°	2832	2873	2890
20°	2801	2853	2878
25°	2761	2825	2861
30°	2721	2800	2846
35°	2676	2773	2833
40°	2633	2749	2824
45°	2585	2720	2817
50°	2529	2686	2810
55°	2466	2652	2806
60°	2389	2613	2807
65°	2280	2557	2792
70°	2131	2480	2785
75°	1889	2384	2796
80°	1537	2265	2878
85°	993	2091	2485

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°	178.1	3.3
10°-20°	510.1	9.3
20°-30°	769.2	14.0
30°-40°	925.5	16.9
40°-50°	965.4	17.6
50°-60°	884.9	16.2
60°-70°	694.8	12.7
70°-80°	422.9	7.7
80°-90°	125.1	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°	1457.4	26.6
0°-40°	2382.9	43.5
0°-60°	4233.2	77.3
0°-90°	5476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5476.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1882	1882	1882	1882	1882	
5°	1865	1877	1875	1873	1879	177
15°	1786	1804	1812	1814	1822	504
25°	1634	1656	1672	1682	1693	753
35°	1431	1454	1483	1504	1515	896
45°	1193	1218	1256	1285	1300	920
55°	924	947	993	1033	1051	825
65°	629	653	706	753	770	622
75°	319	349	403	451	472	338
85°	56	80	119	133	141	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1882.5	1882.5	1882.5	1882.5	1882.5
2.5°	1875.4	1884.8	1882.5	1874.2	1877.7
5°	1864.8	1876.6	1875.4	1873.0	1878.9
7.5°	1851.8	1864.8	1866.0	1866.0	1873.0
10°	1837.7	1850.7	1853.0	1849.5	1851.8
12.5°	1814.1	1829.4	1834.2	1834.2	1837.7
15°	1785.9	1803.5	1811.8	1814.1	1822.4
17.5°	1755.2	1774.1	1784.7	1790.6	1797.6
20°	1718.7	1738.7	1750.5	1757.6	1765.8
22.5°	1677.5	1699.9	1712.8	1719.9	1729.3
25°	1633.9	1656.3	1671.6	1682.2	1692.8
27.5°	1588.0	1609.2	1630.4	1643.3	1652.7
30°	1538.5	1560.9	1583.2	1599.7	1609.2
32.5°	1485.5	1509.0	1534.9	1552.6	1563.2
35°	1431.3	1453.7	1483.1	1504.3	1514.9
37.5°	1375.9	1399.5	1430.1	1452.5	1465.4
40°	1317.0	1341.8	1374.7	1399.5	1412.4
42.5°	1255.8	1279.3	1315.8	1344.1	1359.4
45°	1193.3	1218.1	1255.8	1285.2	1300.5
47.5°	1128.5	1152.1	1193.3	1227.5	1240.4
50°	1061.4	1083.8	1127.4	1163.9	1179.2
52.5°	993.1	1016.6	1060.2	1099.1	1115.6
55°	923.6	947.1	993.1	1033.1	1050.8
57.5°	852.9	876.4	923.6	964.8	986.0
60°	779.8	803.4	852.9	895.3	916.5
62.5°	704.4	729.2	779.8	823.4	845.8
65°	629.1	652.6	705.6	752.7	770.4
67.5°	553.7	577.2	629.1	676.2	697.4
70°	475.9	503.0	553.7	603.1	622.0
72.5°	394.6	425.3	475.9	527.7	546.6
75°	319.2	348.7	402.9	451.2	472.4
77.5°	245.0	276.8	327.5	377.0	398.2
80°	174.3	205.0	256.8	303.9	326.3
82.5°	110.7	137.8	189.7	232.1	248.6
85°	56.5	80.1	119.0	133.1	141.4
87.5°	16.5	28.3	42.4	53.0	58.9
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	15.2	16.8	15.5	17.2	17.5	15.9	17.6	16.3	17.9	18.2
	3H	16.9	18.5	17.3	18.8	19.1	18.0	19.5	18.4	19.8	20.2
	4H	17.6	19.0	18.0	19.3	19.7	18.9	20.3	19.3	20.6	21.0
	6H	18.0	19.3	18.4	19.7	20.0	19.6	20.9	20.0	21.3	21.7
	8H	18.1	19.3	18.5	19.7	20.1	19.9	21.2	20.3	21.5	21.9
	12H	18.1	19.3	18.6	19.7	20.1	20.1	21.3	20.5	21.7	22.1
4H	2H	15.9	17.4	16.3	17.7	18.1	16.5	17.9	16.9	18.3	18.7
	3H	17.9	19.1	18.3	19.5	19.9	18.8	20.0	19.2	20.4	20.8
	4H	18.7	19.8	19.1	20.2	20.6	19.8	20.9	20.3	21.3	21.8
	6H	19.2	20.2	19.7	20.6	21.1	20.8	21.7	21.2	22.1	22.6
	8H	19.4	20.2	19.8	20.7	21.1	21.1	22.0	21.6	22.5	22.9
	12H	19.4	20.2	19.9	20.7	21.2	21.4	22.2	21.9	22.7	23.1
8H	4H	19.1	20.0	19.6	20.5	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	21.9	21.7	22.4	22.9
	8H	20.0	20.7	20.5	21.2	21.7	21.7	22.3	22.2	22.8	23.3
	12H	20.1	20.7	20.6	21.2	21.8	22.0	22.6	22.5	23.1	23.7
12H	4H	19.2	20.0	19.7	20.5	21.0	20.2	21.0	20.7	21.4	21.9
	6H	19.9	20.6	20.4	21.1	21.6	21.3	21.9	21.8	22.4	22.9
	8H	20.2	20.8	20.7	21.3	21.8	21.8	22.4	22.3	22.9	23.4

(END OF REPORT)