

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: P1589883

Luminaire Tested: 24CZSP-SB-57HE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589883
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-57HE-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 5500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

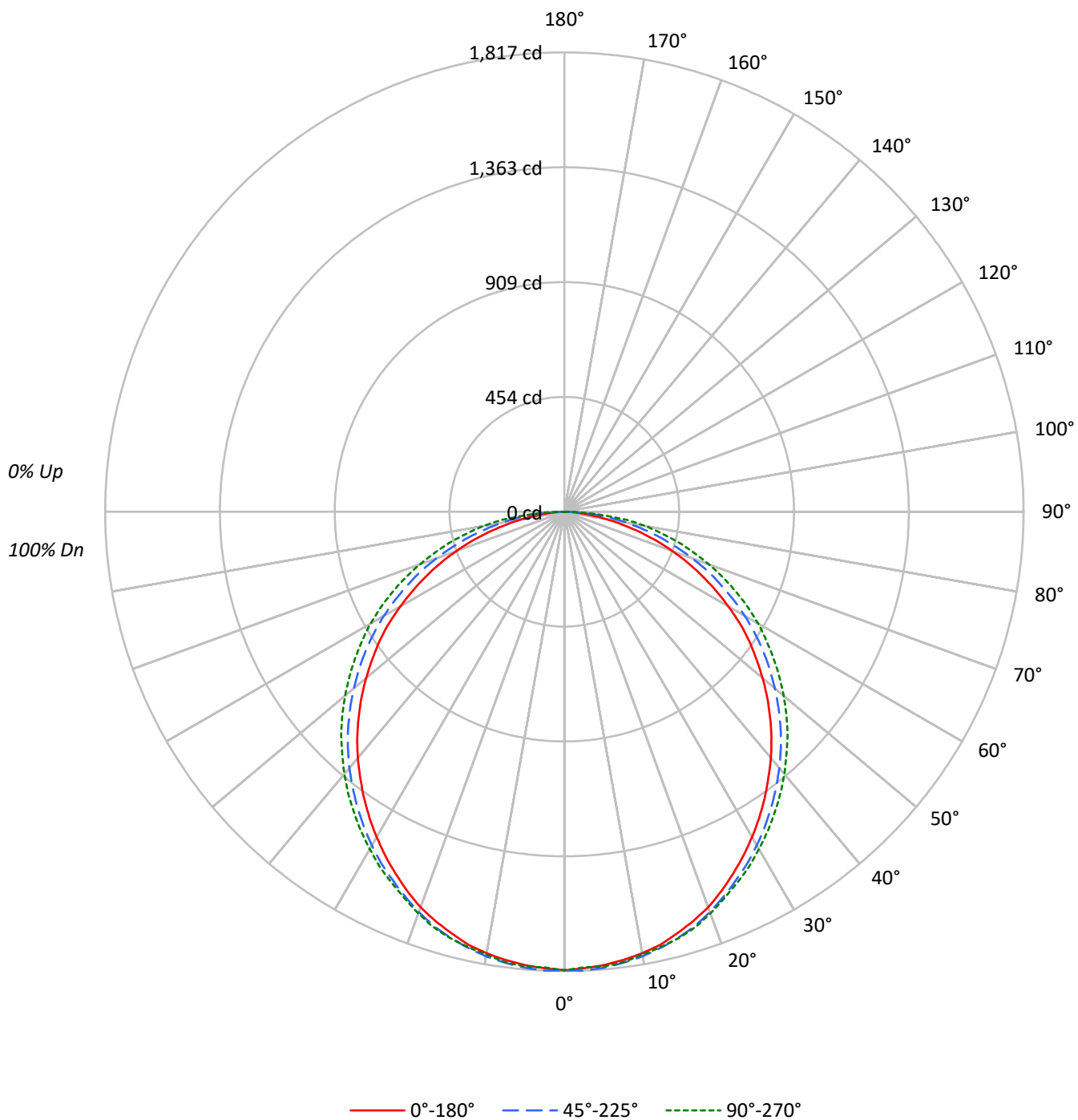
Lumens per Lamp: N/A
Luminaire Lumens: 5292.0 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2777	2777	2777
5°	2767	2783	2776
10°	2757	2777	2766
15°	2737	2765	2769
20°	2713	2746	2755
25°	2669	2716	2735
30°	2627	2694	2724
35°	2584	2668	2714
40°	2542	2645	2707
45°	2494	2620	2705
50°	2439	2592	2698
55°	2384	2563	2698
60°	2295	2525	2714
65°	2188	2476	2716
70°	2042	2407	2724
75°	1816	2320	2771
80°	1492	2223	2875
85°	984	2086	2597

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2944 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.5	3.2
10°-20°	491.0	9.3
20°-30°	740.0	14.0
30°-40°	891.2	16.8
40°-50°	931.1	17.6
50°-60°	855.4	16.2
60°-70°	673.6	12.7
70°-80°	413.0	7.8
80°-90°	125.2	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°	1402.6	26.5
0°-40°	2293.8	43.3
0°-60°	4080.2	77.1
0°-90°	5292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1813	1813	1813	1813	1813	
5°	1800	1803	1810	1808	1806	171
15°	1726	1733	1744	1751	1746	487
25°	1579	1589	1607	1624	1618	728
35°	1382	1400	1427	1453	1452	864
45°	1151	1176	1210	1243	1249	888
55°	893	918	960	1001	1010	796
65°	604	635	683	729	749	597
75°	307	343	392	439	468	326
85°	56	83	119	132	148	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1813.4	1813.4	1813.4	1813.4	1813.4
2.5°	1806.6	1811.1	1816.7	1807.8	1803.3
5°	1799.9	1803.3	1810.0	1807.8	1805.5
7.5°	1787.6	1789.8	1798.8	1798.8	1796.6
10°	1773.0	1777.5	1785.4	1784.2	1778.6
12.5°	1754.0	1757.4	1766.3	1766.3	1763.0
15°	1726.0	1732.7	1743.9	1750.6	1746.2
17.5°	1696.9	1703.6	1718.2	1724.9	1722.6
20°	1664.4	1670.0	1684.6	1694.6	1690.2
22.5°	1624.1	1630.8	1647.6	1658.8	1654.3
25°	1579.3	1589.3	1607.3	1624.1	1618.5
27.5°	1534.5	1545.7	1568.1	1584.9	1582.6
30°	1485.2	1499.7	1523.3	1544.5	1540.1
32.5°	1434.8	1451.6	1476.2	1498.6	1497.5
35°	1382.1	1400.1	1426.9	1452.7	1451.6
37.5°	1326.1	1347.4	1375.4	1403.4	1404.5
40°	1271.3	1291.4	1322.8	1353.0	1354.1
42.5°	1213.0	1234.3	1267.9	1299.3	1300.4
45°	1151.4	1176.0	1209.7	1243.3	1248.9
47.5°	1088.7	1114.4	1149.2	1185.0	1191.7
50°	1023.7	1050.6	1087.6	1125.6	1132.4
52.5°	957.6	985.6	1023.7	1061.8	1071.9
55°	892.7	918.4	959.9	1001.3	1010.3
57.5°	824.4	847.9	892.7	936.4	947.6
60°	749.3	778.4	824.4	868.0	886.0
62.5°	676.5	707.9	754.9	798.6	818.8
65°	603.7	635.1	683.2	729.2	749.3
67.5°	529.8	562.3	613.8	657.5	679.9
70°	455.9	488.3	537.6	584.7	608.2
72.5°	381.9	416.7	464.8	513.0	536.5
75°	306.9	342.7	392.0	439.1	468.2
77.5°	236.3	271.1	320.3	368.5	393.1
80°	169.1	203.8	252.0	300.2	325.9
82.5°	107.5	140.0	187.0	227.4	250.9
85°	56.0	82.9	118.7	132.2	147.8
87.5°	16.8	32.5	45.9	51.5	63.8
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	17.0	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	19.7	20.1
	4H	17.4	18.9	17.8	19.2	19.6	18.8	20.2	19.2	20.6	20.9
	6H	17.9	19.2	18.3	19.5	19.9	19.6	20.9	20.0	21.2	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	18.4	19.6	20.0	20.1	21.3	20.5	21.7	22.1
4H	2H	15.8	17.3	16.2	17.6	18.0	16.4	17.8	16.8	18.2	18.6
	3H	17.8	19.0	18.2	19.4	19.8	18.7	19.9	19.1	20.3	20.7
	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	21.5	22.4	22.9
	12H	19.3	20.2	19.8	20.6	21.1	21.4	22.2	21.8	22.6	23.1
8H	4H	19.0	19.9	19.5	20.4	20.8	20.1	21.0	20.5	21.4	21.9
	6H	19.7	20.5	20.2	20.9	21.4	21.2	21.9	21.7	22.4	22.9
	8H	19.9	20.6	20.4	21.1	21.6	21.6	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	21.8
	6H	19.9	20.5	20.4	21.0	21.5	21.2	21.9	21.7	22.4	22.9
	8H	20.1	20.7	20.6	21.2	21.8	21.8	22.4	22.3	22.8	23.4

(END OF REPORT)