

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: P1589886

Luminaire Tested: 24CZSP-SB-57HE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589886
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-L940-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

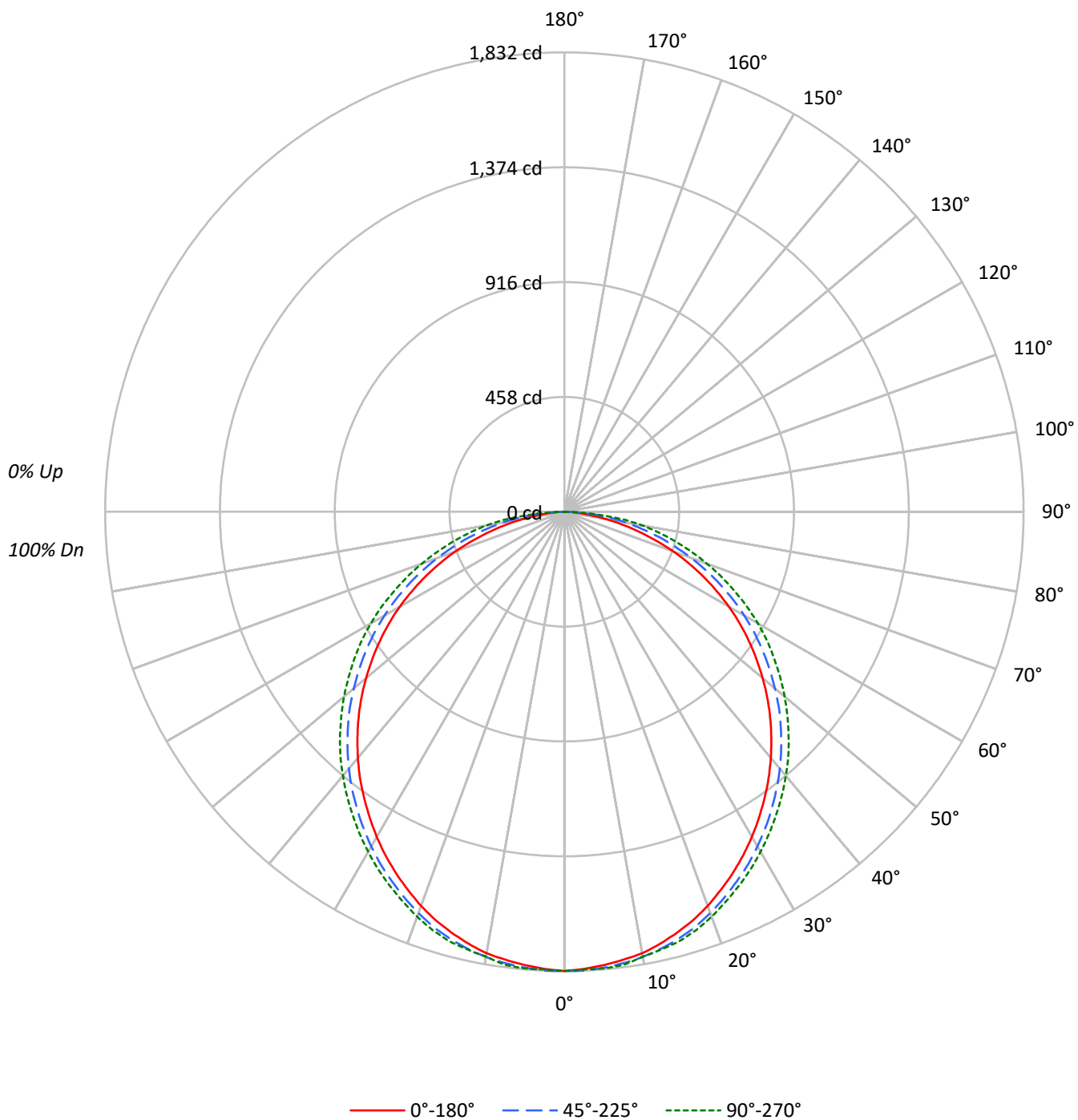
Lumens per Lamp: N/A
Luminaire Lumens: 5328.0 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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	94	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	64	87	77	69	63	74	67	62		71	66	61		69
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2805	2805	2805
5°	2790	2805	2811
10°	2781	2804	2802
15°	2755	2795	2812
20°	2726	2776	2800
25°	2687	2749	2783
30°	2647	2724	2769
35°	2604	2698	2756
40°	2562	2674	2748
45°	2515	2646	2741
50°	2461	2614	2734
55°	2400	2580	2730
60°	2324	2542	2732
65°	2218	2488	2717
70°	2074	2412	2710
75°	1838	2320	2720
80°	1496	2204	2800
85°	967	2035	2416

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2837 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	3.3
10°-20°	496.4	9.3
20°-30°	748.4	14.0
30°-40°	900.5	16.9
40°-50°	939.3	17.6
50°-60°	860.9	16.2
60°-70°	676.1	12.7
70°-80°	411.5	7.7
80°-90°	121.7	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°	1418.0	26.6
0°-40°	2318.5	43.5
0°-60°	4118.8	77.3
0°-90°	5328.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5328.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1832	1832	1832	1832	1832	
5°	1814	1826	1825	1822	1828	172
15°	1738	1755	1763	1765	1773	490
25°	1590	1612	1626	1637	1647	733
35°	1393	1414	1443	1464	1474	871
45°	1161	1185	1222	1250	1265	895
55°	899	922	966	1005	1022	803
65°	612	635	687	732	750	605
75°	311	339	392	439	460	329
85°	55	78	116	130	138	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1831.6	1831.6	1831.6	1831.6	1831.6
2.5°	1824.7	1833.9	1831.6	1823.6	1827.0
5°	1814.4	1825.9	1824.7	1822.4	1828.1
7.5°	1801.8	1814.4	1815.5	1815.5	1822.4
10°	1788.0	1800.6	1802.9	1799.5	1801.8
12.5°	1765.1	1780.0	1784.6	1784.6	1788.0
15°	1737.6	1754.8	1762.8	1765.1	1773.1
17.5°	1707.8	1726.1	1736.4	1742.2	1749.1
20°	1672.3	1691.7	1703.2	1710.1	1718.1
22.5°	1632.1	1653.9	1666.5	1673.4	1682.6
25°	1589.7	1611.5	1626.4	1636.7	1647.0
27.5°	1545.0	1565.7	1586.3	1598.9	1608.1
30°	1496.9	1518.7	1540.5	1556.5	1565.7
32.5°	1445.3	1468.2	1493.5	1510.7	1521.0
35°	1392.6	1414.4	1443.0	1463.7	1474.0
37.5°	1338.7	1361.7	1391.5	1413.2	1425.8
40°	1281.4	1305.5	1337.6	1361.7	1374.3
42.5°	1221.8	1244.7	1280.3	1307.8	1322.7
45°	1161.1	1185.1	1221.8	1250.5	1265.4
47.5°	1098.0	1121.0	1161.1	1194.3	1206.9
50°	1032.7	1054.5	1096.9	1132.4	1147.3
52.5°	966.2	989.1	1031.6	1069.4	1085.4
55°	898.6	921.5	966.2	1005.2	1022.4
57.5°	829.8	852.8	898.6	938.7	959.3
60°	758.8	781.7	829.8	871.1	891.7
62.5°	685.4	709.5	758.8	801.2	823.0
65°	612.1	635.0	686.6	732.4	749.6
67.5°	538.7	561.6	612.1	657.9	678.5
70°	463.1	489.4	538.7	586.8	605.2
72.5°	384.0	413.8	463.1	513.5	531.8
75°	310.6	339.3	392.0	439.0	459.6
77.5°	238.4	269.4	318.6	366.8	387.4
80°	169.6	199.4	249.9	295.7	317.5
82.5°	107.7	134.1	184.5	225.8	241.8
85°	55.0	77.9	115.8	129.5	137.5
87.5°	16.0	27.5	41.3	51.6	57.3
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	15.1	16.7	15.4	17.1	17.4	15.8	17.5	16.2	17.8	18.1
	3H	16.9	18.4	17.2	18.7	19.0	17.9	19.4	18.3	19.7	20.1
	4H	17.5	18.9	17.9	19.2	19.6	18.8	20.2	19.2	20.5	20.9
	6H	17.9	19.2	18.3	19.6	20.0	19.5	20.8	19.9	21.2	21.6
	8H	18.0	19.2	18.4	19.6	20.0	19.8	21.1	20.2	21.5	21.8
	12H	18.0	19.2	18.5	19.6	20.0	20.0	21.2	20.4	21.6	22.0
4H	2H	15.9	17.3	16.2	17.6	18.0	16.4	17.8	16.8	18.2	18.6
	3H	17.8	19.0	18.3	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	20.8	20.2	21.3	21.7
	6H	19.1	20.1	19.6	20.5	21.0	20.7	21.6	21.1	22.0	22.5
	8H	19.3	20.1	19.7	20.6	21.1	21.0	21.9	21.5	22.4	22.8
	12H	19.3	20.1	19.8	20.6	21.1	21.3	22.1	21.8	22.6	23.0
8H	4H	19.0	19.9	19.5	20.4	20.8	20.1	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	22.3	22.8
	8H	19.9	20.6	20.4	21.1	21.6	21.6	22.2	22.1	22.8	23.2
	12H	20.0	20.6	20.5	21.1	21.7	21.9	22.5	22.4	23.0	23.6
12H	4H	19.1	19.9	19.6	20.4	20.9	20.1	20.9	20.6	21.4	21.8
	6H	19.8	20.5	20.3	21.0	21.5	21.2	21.8	21.7	22.3	22.8
	8H	20.1	20.7	20.6	21.2	21.7	21.7	22.3	22.2	22.8	23.3

(END OF REPORT)