

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: P1589866

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589866
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-57-L940-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

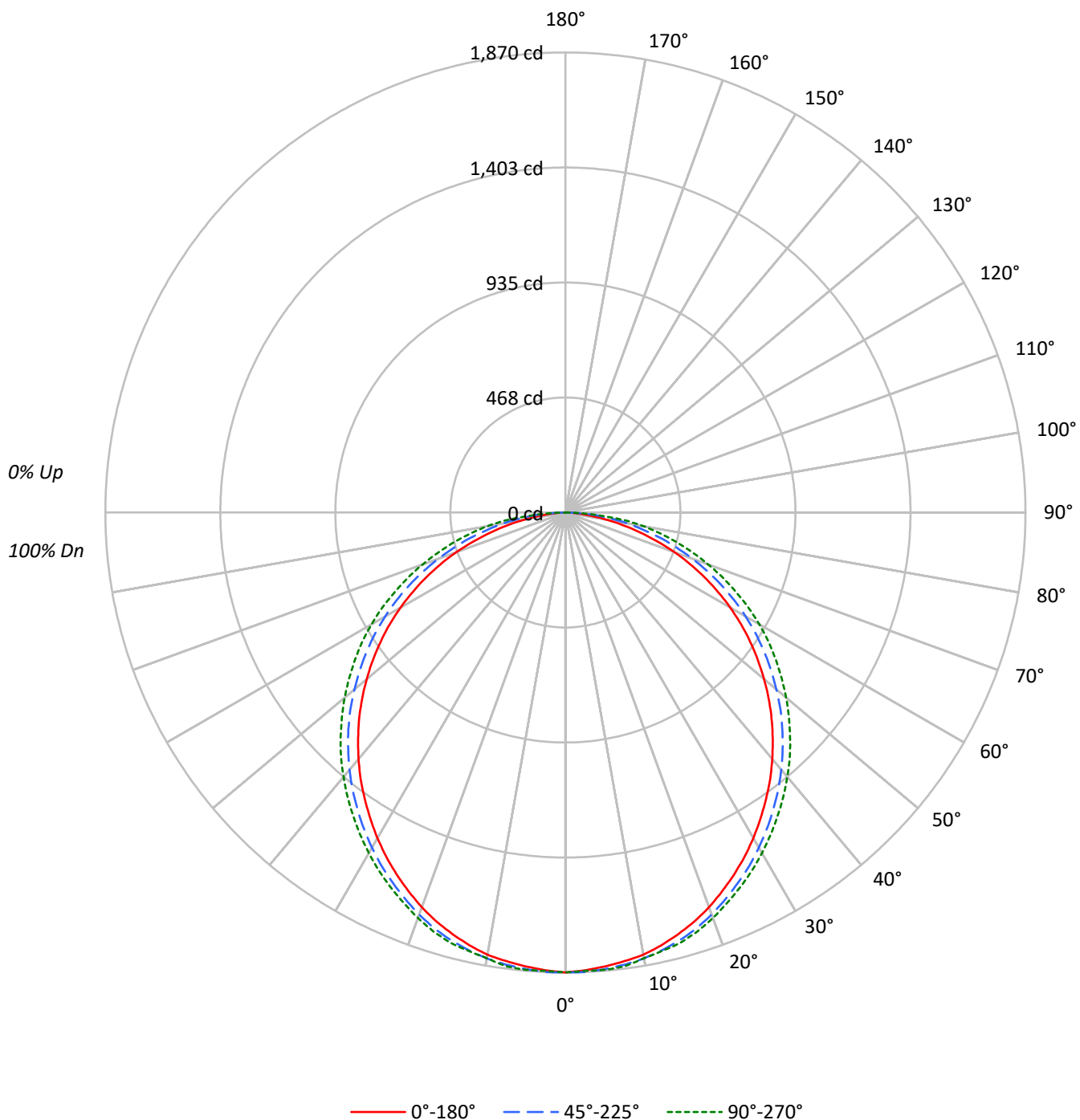
Lumens per Lamp: N/A
Luminaire Lumens: 5439.0 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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°	2864	2864	2864
5°	2848	2864	2869
10°	2839	2862	2861
15°	2813	2853	2870
20°	2782	2834	2859
25°	2743	2806	2842
30°	2703	2781	2827
35°	2658	2754	2813
40°	2615	2730	2805
45°	2567	2702	2798
50°	2512	2668	2791
55°	2449	2634	2787
60°	2373	2595	2788
65°	2264	2540	2773
70°	2117	2463	2767
75°	1877	2368	2777
80°	1528	2250	2859
85°	988	2077	2467

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2897 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.9	3.3
10°-20°	506.7	9.3
20°-30°	764.0	14.0
30°-40°	919.2	16.9
40°-50°	958.8	17.6
50°-60°	878.9	16.2
60°-70°	690.2	12.7
70°-80°	420.0	7.7
80°-90°	124.3	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°	1447.6	26.6
0°-40°	2366.8	43.5
0°-60°	4204.5	77.3
0°-90°	5439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1870	1870	1870	1870	1870	
5°	1852	1864	1863	1860	1866	176
15°	1774	1791	1800	1802	1810	500
25°	1623	1645	1660	1671	1681	748
35°	1422	1444	1473	1494	1505	890
45°	1185	1210	1247	1276	1292	914
55°	917	941	986	1026	1044	820
65°	625	648	701	748	765	618
75°	317	346	400	448	469	336
85°	56	80	118	132	140	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1869.7	1869.7	1869.7	1869.7	1869.7
2.5°	1862.7	1872.1	1869.7	1861.5	1865.1
5°	1852.2	1863.9	1862.7	1860.4	1866.2
7.5°	1839.3	1852.2	1853.4	1853.4	1860.4
10°	1825.3	1838.1	1840.5	1837.0	1839.3
12.5°	1801.9	1817.1	1821.8	1821.8	1825.3
15°	1773.8	1791.3	1799.5	1801.9	1810.1
17.5°	1743.4	1762.1	1772.6	1778.5	1785.5
20°	1707.1	1727.0	1738.7	1745.7	1753.9
22.5°	1666.2	1688.4	1701.3	1708.3	1717.6
25°	1622.9	1645.1	1660.3	1670.8	1681.4
27.5°	1577.2	1598.3	1619.3	1632.2	1641.6
30°	1528.1	1550.3	1572.5	1588.9	1598.3
32.5°	1475.4	1498.8	1524.6	1542.1	1552.7
35°	1421.6	1443.8	1473.1	1494.2	1504.7
37.5°	1366.6	1390.0	1420.4	1442.7	1455.5
40°	1308.1	1332.7	1365.4	1390.0	1402.9
42.5°	1247.3	1270.7	1306.9	1335.0	1350.2
45°	1185.3	1209.8	1247.3	1276.5	1291.7
47.5°	1120.9	1144.3	1185.3	1219.2	1232.1
50°	1054.2	1076.4	1119.7	1156.0	1171.2
52.5°	986.4	1009.8	1053.0	1091.7	1108.0
55°	917.3	940.7	986.4	1026.1	1043.7
57.5°	847.1	870.5	917.3	958.3	979.3
60°	774.6	798.0	847.1	889.2	910.3
62.5°	699.7	724.3	774.6	817.9	840.1
65°	624.8	648.2	700.9	747.7	765.2
67.5°	549.9	573.3	624.8	671.6	692.7
70°	472.7	499.6	549.9	599.1	617.8
72.5°	392.0	422.4	472.7	524.2	542.9
75°	317.1	346.3	400.2	448.1	469.2
77.5°	243.4	275.0	325.3	374.4	395.5
80°	173.2	203.6	255.1	301.9	324.1
82.5°	110.0	136.9	188.4	230.5	246.9
85°	56.2	79.6	118.2	132.2	140.4
87.5°	16.4	28.1	42.1	52.7	58.5
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	17.1	17.4	15.9	17.6	16.3	17.9	18.2
	3H	16.9	18.4	17.3	18.8	19.1	18.0	19.5	18.3	19.8	20.2
	4H	17.5	19.0	17.9	19.3	19.7	18.8	20.3	19.2	20.6	21.0
	6H	18.0	19.3	18.4	19.6	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	21.1	20.3	21.5	21.9
	12H	18.1	19.3	18.5	19.7	20.1	20.1	21.3	20.5	21.7	22.1
4H	2H	15.9	17.3	16.3	17.7	18.1	16.5	17.9	16.9	18.3	18.6
	3H	17.9	19.1	18.3	19.5	19.9	18.8	20.0	19.2	20.4	20.8
	4H	18.7	19.7	19.1	20.2	20.6	19.8	20.9	20.3	21.3	21.8
	6H	19.2	20.1	19.6	20.6	21.0	20.7	21.7	21.2	22.1	22.6
	8H	19.3	20.2	19.8	20.7	21.1	21.1	22.0	21.6	22.4	22.9
	12H	19.4	20.2	19.9	20.7	21.2	21.4	22.2	21.8	22.6	23.1
8H	4H	19.1	20.0	19.6	20.4	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	20.6	20.5	21.1	21.6	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	23.6
12H	4H	19.2	20.0	19.7	20.5	20.9	20.2	21.0	20.6	21.4	21.9
	6H	19.9	20.6	20.4	21.0	21.6	21.2	21.9	21.8	22.4	22.9
	8H	20.2	20.8	20.7	21.2	21.8	21.8	22.4	22.3	22.8	23.4

(END OF REPORT)