

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: P1589857

Luminaire Tested: 24CZSP-SB-57-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589857
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-57-L840
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

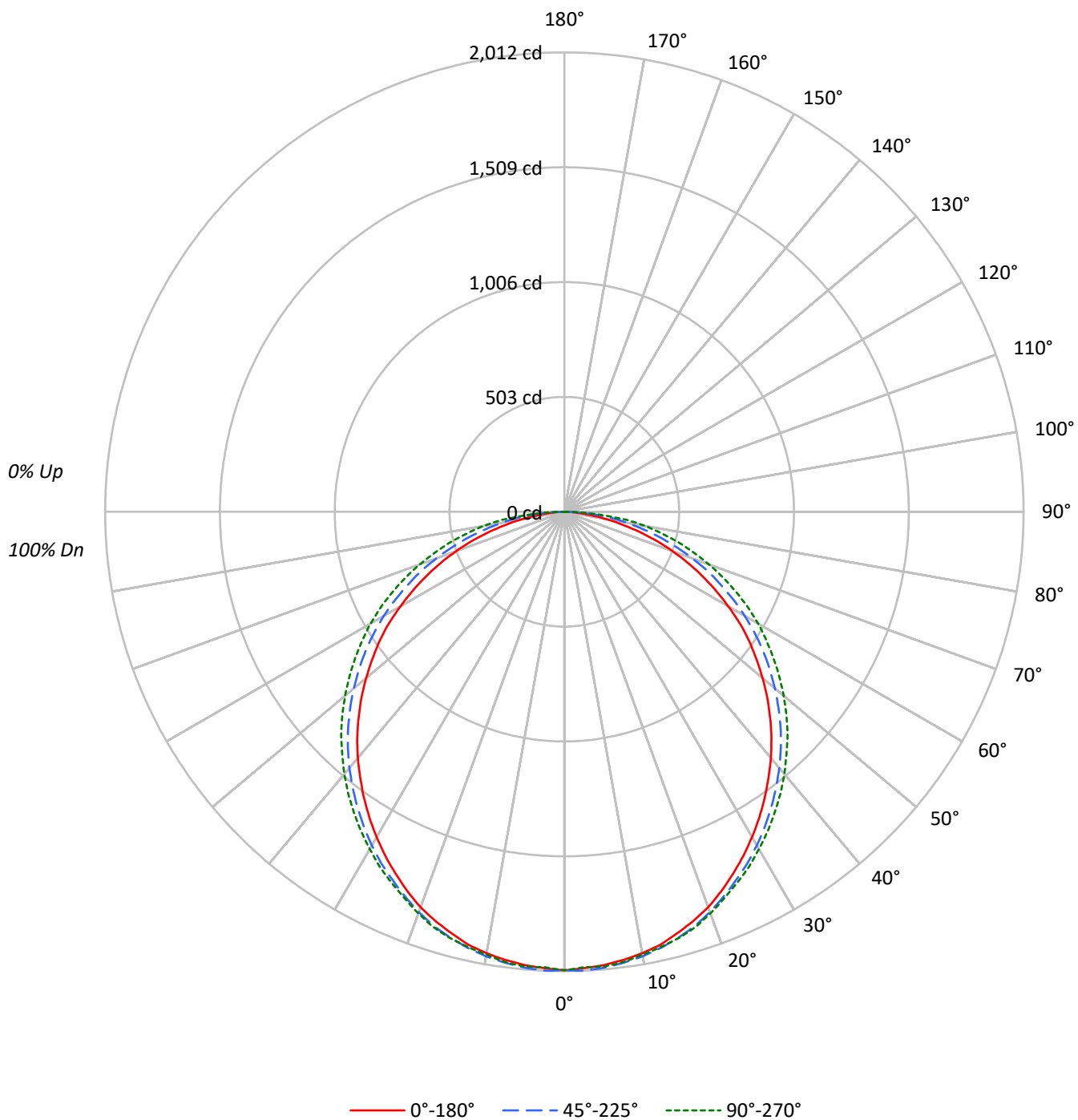
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5860.0 lumens
Efficiency: N/A
Efficacy: 143.3 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): 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			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°	3076	3076	3076
5°	3064	3082	3074
10°	3053	3075	3063
15°	3031	3062	3066
20°	3004	3040	3051
25°	2955	3008	3029
30°	2909	2983	3016
35°	2862	2954	3005
40°	2815	2929	2998
45°	2762	2901	2995
50°	2701	2870	2988
55°	2640	2838	2987
60°	2542	2796	3005
65°	2423	2742	3007
70°	2261	2666	3016
75°	2011	2569	3068
80°	1652	2462	3183
85°	1090	2311	2877

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3260 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	3.2
10°-20°	543.7	9.3
20°-30°	819.5	14.0
30°-40°	986.8	16.8
40°-50°	1031.0	17.6
50°-60°	947.2	16.2
60°-70°	745.9	12.7
70°-80°	457.3	7.8
80°-90°	138.7	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°	1553.1	26.5
0°-40°	2539.9	43.3
0°-60°	4518.1	77.1
0°-90°	5860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5860.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2008	2008	2008	2008	2008	
5°	1993	1997	2004	2002	1999	189
15°	1911	1919	1931	1938	1934	539
25°	1749	1760	1780	1798	1792	806
35°	1530	1550	1580	1609	1607	957
45°	1275	1302	1340	1377	1383	983
55°	988	1017	1063	1109	1119	882
65°	668	703	757	807	830	661
75°	340	380	434	486	518	361
85°	62	92	132	146	164	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2008.0	2008.0	2008.0	2008.0	2008.0
2.5°	2000.5	2005.5	2011.7	2001.8	1996.8
5°	1993.1	1996.8	2004.3	2001.8	1999.3
7.5°	1979.5	1981.9	1991.9	1991.9	1989.4
10°	1963.3	1968.3	1977.0	1975.7	1969.5
12.5°	1942.3	1946.0	1955.9	1955.9	1952.2
15°	1911.2	1918.7	1931.1	1938.5	1933.6
17.5°	1879.0	1886.4	1902.6	1910.0	1907.5
20°	1843.0	1849.2	1865.4	1876.5	1871.6
22.5°	1798.4	1805.8	1824.4	1836.8	1831.9
25°	1748.8	1759.9	1779.8	1798.4	1792.2
27.5°	1699.2	1711.6	1736.4	1755.0	1752.5
30°	1644.6	1660.7	1686.8	1710.3	1705.4
32.5°	1588.8	1607.4	1634.7	1659.5	1658.2
35°	1530.5	1550.3	1580.1	1608.6	1607.4
37.5°	1468.5	1492.0	1523.0	1554.1	1555.3
40°	1407.7	1430.0	1464.8	1498.2	1499.5
42.5°	1343.2	1366.8	1404.0	1438.7	1439.9
45°	1275.0	1302.3	1339.5	1376.7	1382.9
47.5°	1205.5	1234.1	1272.5	1312.2	1319.6
50°	1133.6	1163.4	1204.3	1246.5	1253.9
52.5°	1060.4	1091.4	1133.6	1175.8	1186.9
55°	988.5	1017.0	1062.9	1108.8	1118.7
57.5°	912.8	938.9	988.5	1036.9	1049.3
60°	829.7	862.0	912.8	961.2	981.0
62.5°	749.1	783.8	835.9	884.3	906.6
65°	668.5	703.2	756.6	807.4	829.7
67.5°	586.6	622.6	679.7	728.0	752.8
70°	504.8	540.8	595.3	647.4	673.5
72.5°	422.9	461.4	514.7	568.0	594.1
75°	339.8	379.5	434.1	486.2	518.4
77.5°	261.7	300.1	354.7	408.0	435.3
80°	187.3	225.7	279.1	332.4	360.9
82.5°	119.1	155.0	207.1	251.8	277.8
85°	62.0	91.8	131.5	146.4	163.7
87.5°	18.6	36.0	50.9	57.1	70.7
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	15.4	17.1	15.8	17.4	17.7	16.2	17.8	16.5	18.1	18.5
	3H	17.2	18.7	17.6	19.0	19.4	18.3	19.8	18.6	20.1	20.5
	4H	17.8	19.2	18.2	19.6	19.9	19.1	20.6	19.5	20.9	21.3
	6H	18.2	19.5	18.6	19.9	20.3	19.9	21.2	20.3	21.6	22.0
	8H	18.3	19.6	18.7	20.0	20.4	20.2	21.5	20.6	21.9	22.3
	12H	18.4	19.6	18.8	20.0	20.4	20.4	21.6	20.9	22.0	22.5
4H	2H	16.2	17.6	16.6	18.0	18.3	16.8	18.2	17.2	18.5	18.9
	3H	18.2	19.4	18.6	19.8	20.2	19.1	20.3	19.5	20.7	21.1
	4H	18.9	20.0	19.4	20.4	20.9	20.1	21.2	20.6	21.6	22.1
	6H	19.5	20.4	19.9	20.9	21.3	21.1	22.0	21.5	22.5	22.9
	8H	19.6	20.5	20.1	21.0	21.4	21.4	22.3	21.9	22.8	23.2
	12H	19.7	20.5	20.2	21.0	21.5	21.7	22.5	22.2	23.0	23.5
8H	4H	19.4	20.3	19.8	20.7	21.2	20.4	21.3	20.9	21.8	22.2
	6H	20.1	20.8	20.6	21.3	21.8	21.5	22.3	22.0	22.7	23.2
	8H	20.3	21.0	20.8	21.5	21.9	22.0	22.7	22.5	23.2	23.7
	12H	20.4	21.0	20.9	21.5	22.1	22.4	23.0	22.9	23.5	24.0
12H	4H	19.5	20.3	19.9	20.7	21.2	20.5	21.3	20.9	21.7	22.2
	6H	20.2	20.9	20.7	21.3	21.9	21.6	22.3	22.1	22.7	23.2
	8H	20.5	21.1	21.0	21.6	22.1	22.1	22.7	22.6	23.2	23.8

(END OF REPORT)