

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: P1589856

Luminaire Tested: 24CZSP-SB-57-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589856
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-L840-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

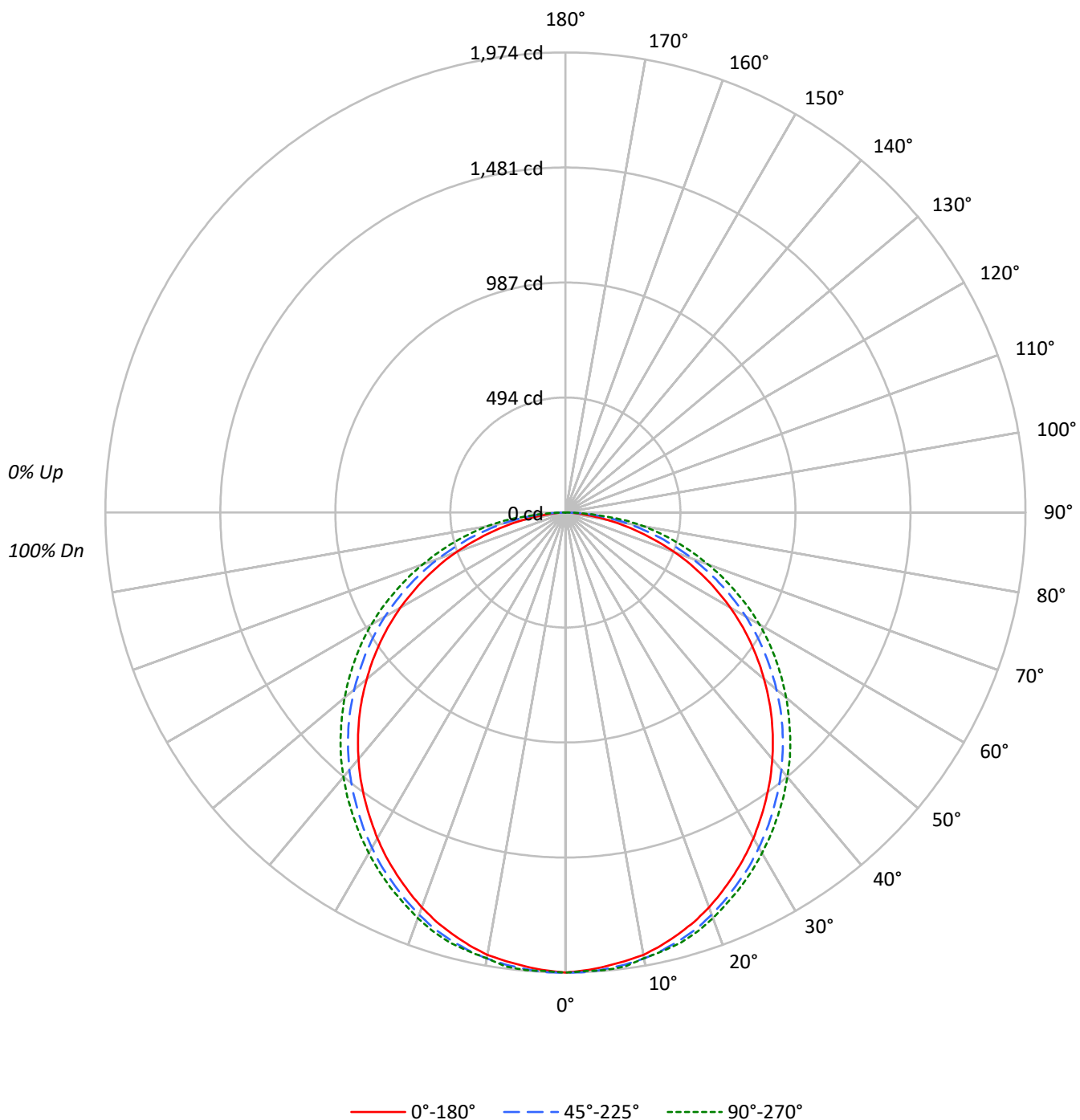
Lumens per Lamp: N/A
Luminaire Lumens: 5743.0 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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°	3024	3024	3024
5°	3007	3024	3030
10°	2997	3022	3020
15°	2970	3013	3031
20°	2938	2992	3018
25°	2896	2963	3000
30°	2854	2937	2985
35°	2807	2908	2971
40°	2762	2883	2962
45°	2711	2853	2954
50°	2652	2817	2947
55°	2586	2781	2943
60°	2505	2740	2944
65°	2391	2682	2928
70°	2235	2600	2921
75°	1981	2500	2932
80°	1612	2375	3018
85°	1042	2193	2606

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3059 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	3.3
10°-20°	535.0	9.3
20°-30°	806.7	14.0
30°-40°	970.6	16.9
40°-50°	1012.4	17.6
50°-60°	928.0	16.2
60°-70°	728.7	12.7
70°-80°	443.5	7.7
80°-90°	131.2	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°	1528.5	26.6
0°-40°	2499.1	43.5
0°-60°	4439.6	77.3
0°-90°	5743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5743.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1974	1974	1974	1974	1974	
5°	1956	1968	1967	1964	1970	186
15°	1873	1892	1900	1903	1911	528
25°	1714	1737	1753	1764	1775	790
35°	1501	1524	1555	1578	1589	939
45°	1252	1278	1317	1348	1364	965
55°	969	993	1042	1084	1102	866
65°	660	684	740	790	808	653
75°	335	366	422	473	495	355
85°	59	84	125	140	148	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1974.2	1974.2	1974.2	1974.2	1974.2
2.5°	1966.8	1976.7	1974.2	1965.6	1969.3
5°	1955.7	1968.1	1966.8	1964.4	1970.5
7.5°	1942.1	1955.7	1956.9	1956.9	1964.4
10°	1927.3	1940.9	1943.4	1939.7	1942.1
12.5°	1902.6	1918.6	1923.6	1923.6	1927.3
15°	1872.9	1891.5	1900.1	1902.6	1911.2
17.5°	1840.8	1860.6	1871.7	1877.9	1885.3
20°	1802.5	1823.5	1835.9	1843.3	1851.9
22.5°	1759.3	1782.8	1796.3	1803.8	1813.6
25°	1713.6	1737.0	1753.1	1764.2	1775.3
27.5°	1665.4	1687.6	1709.9	1723.4	1733.3
30°	1613.5	1637.0	1660.4	1677.7	1687.6
32.5°	1557.9	1582.6	1609.8	1628.3	1639.4
35°	1501.1	1524.5	1555.4	1577.7	1588.8
37.5°	1443.0	1467.7	1499.8	1523.3	1536.9
40°	1381.2	1407.2	1441.8	1467.7	1481.3
42.5°	1317.0	1341.7	1380.0	1409.6	1425.7
45°	1251.5	1277.5	1317.0	1347.9	1363.9
47.5°	1183.6	1208.3	1251.5	1287.3	1300.9
50°	1113.1	1136.6	1182.3	1220.6	1236.7
52.5°	1041.5	1066.2	1111.9	1152.7	1170.0
55°	968.6	993.3	1041.5	1083.5	1102.0
57.5°	894.5	919.2	968.6	1011.8	1034.1
60°	817.9	842.6	894.5	938.9	961.2
62.5°	738.8	764.7	817.9	863.6	887.1
65°	659.7	684.4	740.0	789.5	808.0
67.5°	580.7	605.4	659.7	709.1	731.4
70°	499.1	527.5	580.7	632.5	652.3
72.5°	413.9	446.0	499.1	553.5	573.2
75°	334.8	365.7	422.5	473.2	495.4
77.5°	257.0	290.3	343.5	395.3	417.6
80°	182.8	215.0	269.3	318.7	342.2
82.5°	116.1	144.5	198.9	243.4	260.7
85°	59.3	84.0	124.8	139.6	148.3
87.5°	17.3	29.7	44.5	55.6	61.8
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	15.3	17.0	15.7	17.3	17.6	16.1	17.7	16.4	18.1	18.4
	3H	17.1	18.6	17.5	18.9	19.3	18.2	19.7	18.5	20.0	20.3
	4H	17.7	19.2	18.1	19.5	19.9	19.0	20.4	19.4	20.8	21.2
	6H	18.1	19.5	18.6	19.8	20.2	19.8	21.1	20.2	21.4	21.8
	8H	18.2	19.5	18.7	19.9	20.3	20.1	21.3	20.5	21.7	22.1
	12H	18.3	19.5	18.7	19.9	20.3	20.3	21.5	20.7	21.8	22.3
4H	2H	16.1	17.5	16.5	17.9	18.3	16.7	18.1	17.1	18.5	18.8
	3H	18.1	19.3	18.5	19.7	20.1	19.0	20.2	19.4	20.6	21.0
	4H	18.8	19.9	19.3	20.3	20.8	20.0	21.1	20.4	21.5	21.9
	6H	19.4	20.3	19.8	20.8	21.2	20.9	21.9	21.4	22.3	22.8
	8H	19.5	20.4	20.0	20.8	21.3	21.3	22.2	21.7	22.6	23.1
	12H	19.6	20.4	20.1	20.9	21.3	21.5	22.3	22.0	22.8	23.3
8H	4H	19.3	20.2	19.8	20.6	21.1	20.3	21.2	20.8	21.6	22.1
	6H	20.0	20.7	20.4	21.2	21.7	21.4	22.1	21.9	22.6	23.1
	8H	20.2	20.8	20.7	21.3	21.8	21.8	22.5	22.3	23.0	23.5
	12H	20.3	20.9	20.8	21.4	21.9	22.2	22.8	22.7	23.3	23.8
12H	4H	19.4	20.2	19.9	20.6	21.1	20.3	21.1	20.8	21.6	22.1
	6H	20.1	20.8	20.6	21.2	21.8	21.4	22.1	22.0	22.6	23.1
	8H	20.4	20.9	20.9	21.4	22.0	22.0	22.5	22.5	23.0	23.6

(END OF REPORT)