

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: P1590050

Luminaire Tested: 24CZSP-SB-80-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590050
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-80-L950-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 8000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

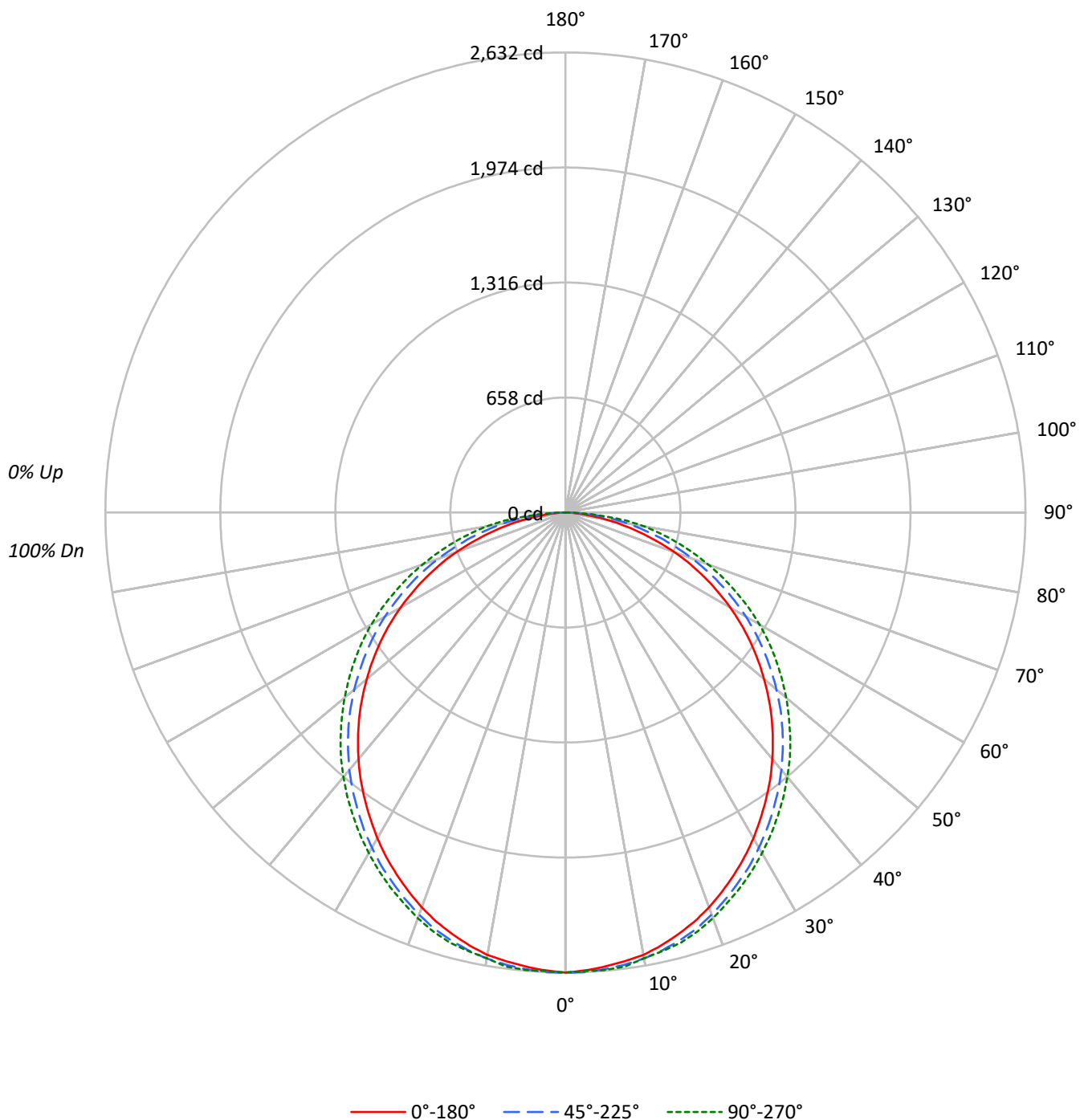
Lumens per Lamp: N/A
Luminaire Lumens: 7657.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 62.7
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°	4032	4032	4032
5°	4009	4032	4039
10°	3996	4030	4027
15°	3960	4017	4041
20°	3917	3990	4024
25°	3861	3950	4000
30°	3805	3915	3979
35°	3742	3878	3961
40°	3682	3843	3949
45°	3614	3803	3939
50°	3536	3756	3929
55°	3448	3708	3923
60°	3340	3653	3926
65°	3188	3576	3904
70°	2980	3467	3895
75°	2642	3333	3909
80°	2150	3167	4025
85°	1390	2924	3474

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4079 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.1	3.3
10°-20°	713.3	9.3
20°-30°	1075.5	14.0
30°-40°	1294.1	16.9
40°-50°	1349.9	17.6
50°-60°	1237.3	16.2
60°-70°	971.6	12.7
70°-80°	591.3	7.7
80°-90°	174.9	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°	2037.9	26.6
0°-40°	3332.0	43.5
0°-60°	5919.2	77.3
0°-90°	7657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7657.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2632	2632	2632	2632	2632	
5°	2608	2624	2622	2619	2627	248
15°	2497	2522	2533	2537	2548	704
25°	2285	2316	2337	2352	2367	1053
35°	2001	2033	2074	2104	2118	1252
45°	1669	1703	1756	1797	1818	1287
55°	1291	1324	1389	1445	1469	1154
65°	880	912	987	1053	1077	870
75°	446	488	563	631	660	473
85°	79	112	166	186	198	103
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2632.2	2632.2	2632.2	2632.2	2632.2
2.5°	2622.3	2635.5	2632.2	2620.7	2625.6
5°	2607.5	2624.0	2622.3	2619.0	2627.3
7.5°	2589.4	2607.5	2609.2	2609.2	2619.0
10°	2569.6	2587.7	2591.0	2586.1	2589.4
12.5°	2536.7	2558.1	2564.7	2564.7	2569.6
15°	2497.1	2521.8	2533.4	2536.7	2548.2
17.5°	2454.3	2480.7	2495.5	2503.7	2513.6
20°	2403.3	2431.3	2447.7	2457.6	2469.1
22.5°	2345.6	2376.9	2395.0	2404.9	2418.1
25°	2284.7	2316.0	2337.4	2352.2	2367.0
27.5°	2220.4	2250.1	2279.7	2297.8	2311.0
30°	2151.2	2182.5	2213.8	2236.9	2250.1
32.5°	2077.1	2110.1	2146.3	2171.0	2185.8
35°	2001.3	2032.6	2073.8	2103.5	2118.3
37.5°	1923.9	1956.9	1999.7	2031.0	2049.1
40°	1841.6	1876.2	1922.3	1956.9	1975.0
42.5°	1755.9	1788.8	1839.9	1879.4	1900.9
45°	1668.6	1703.2	1755.9	1797.1	1818.5
47.5°	1578.0	1611.0	1668.6	1716.4	1734.5
50°	1484.1	1515.4	1576.4	1627.4	1648.8
52.5°	1388.6	1421.5	1482.5	1536.8	1559.9
55°	1291.4	1324.3	1388.6	1444.6	1469.3
57.5°	1192.6	1225.5	1291.4	1349.0	1378.7
60°	1090.4	1123.4	1192.6	1251.9	1281.5
62.5°	985.0	1019.6	1090.4	1151.4	1182.7
65°	879.6	912.5	986.7	1052.6	1077.3
67.5°	774.2	807.1	879.6	945.5	975.1
70°	665.5	703.4	774.2	843.4	869.7
72.5°	551.8	594.6	665.5	737.9	764.3
75°	446.4	487.6	563.3	630.9	660.5
77.5°	342.6	387.1	457.9	527.1	556.8
80°	243.8	286.6	359.1	425.0	456.3
82.5°	154.8	192.7	265.2	324.5	347.6
85°	79.1	112.0	166.4	186.1	197.7
87.5°	23.1	39.5	59.3	74.1	82.4
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	16.3	18.0	16.7	18.3	18.6	17.1	18.7	17.4	19.1	19.4
	3H	18.1	19.6	18.5	19.9	20.3	19.2	20.7	19.5	21.0	21.3
	4H	18.7	20.2	19.1	20.5	20.9	20.0	21.4	20.4	21.8	22.2
	6H	19.1	20.5	19.6	20.8	21.2	20.8	22.1	21.2	22.4	22.8
	8H	19.2	20.5	19.7	20.9	21.3	21.1	22.3	21.5	22.7	23.1
	12H	19.3	20.5	19.7	20.9	21.3	21.3	22.5	21.7	22.8	23.3
4H	2H	17.1	18.5	17.5	18.9	19.3	17.7	19.1	18.1	19.4	19.8
	3H	19.1	20.3	19.5	20.7	21.1	20.0	21.2	20.4	21.6	22.0
	4H	19.8	20.9	20.3	21.3	21.8	21.0	22.1	21.4	22.5	22.9
	6H	20.4	21.3	20.8	21.8	22.2	21.9	22.9	22.4	23.3	23.8
	8H	20.5	21.4	21.0	21.8	22.3	22.3	23.2	22.7	23.6	24.1
	12H	20.6	21.4	21.1	21.9	22.3	22.5	23.3	23.0	23.8	24.3
8H	4H	20.3	21.2	20.7	21.6	22.1	21.3	22.2	21.8	22.6	23.1
	6H	21.0	21.7	21.4	22.2	22.7	22.4	23.1	22.9	23.6	24.1
	8H	21.2	21.8	21.7	22.3	22.8	22.8	23.5	23.3	24.0	24.5
	12H	21.3	21.9	21.8	22.4	22.9	23.2	23.8	23.7	24.3	24.8
12H	4H	20.4	21.2	20.9	21.6	22.1	21.3	22.1	21.8	22.6	23.1
	6H	21.1	21.8	21.6	22.2	22.8	22.4	23.1	23.0	23.6	24.1
	8H	21.4	21.9	21.9	22.4	23.0	23.0	23.5	23.5	24.0	24.6

(END OF REPORT)