

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: P1590042

Luminaire Tested: 24CZSP-SB-80-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590042
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-L930-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 8000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

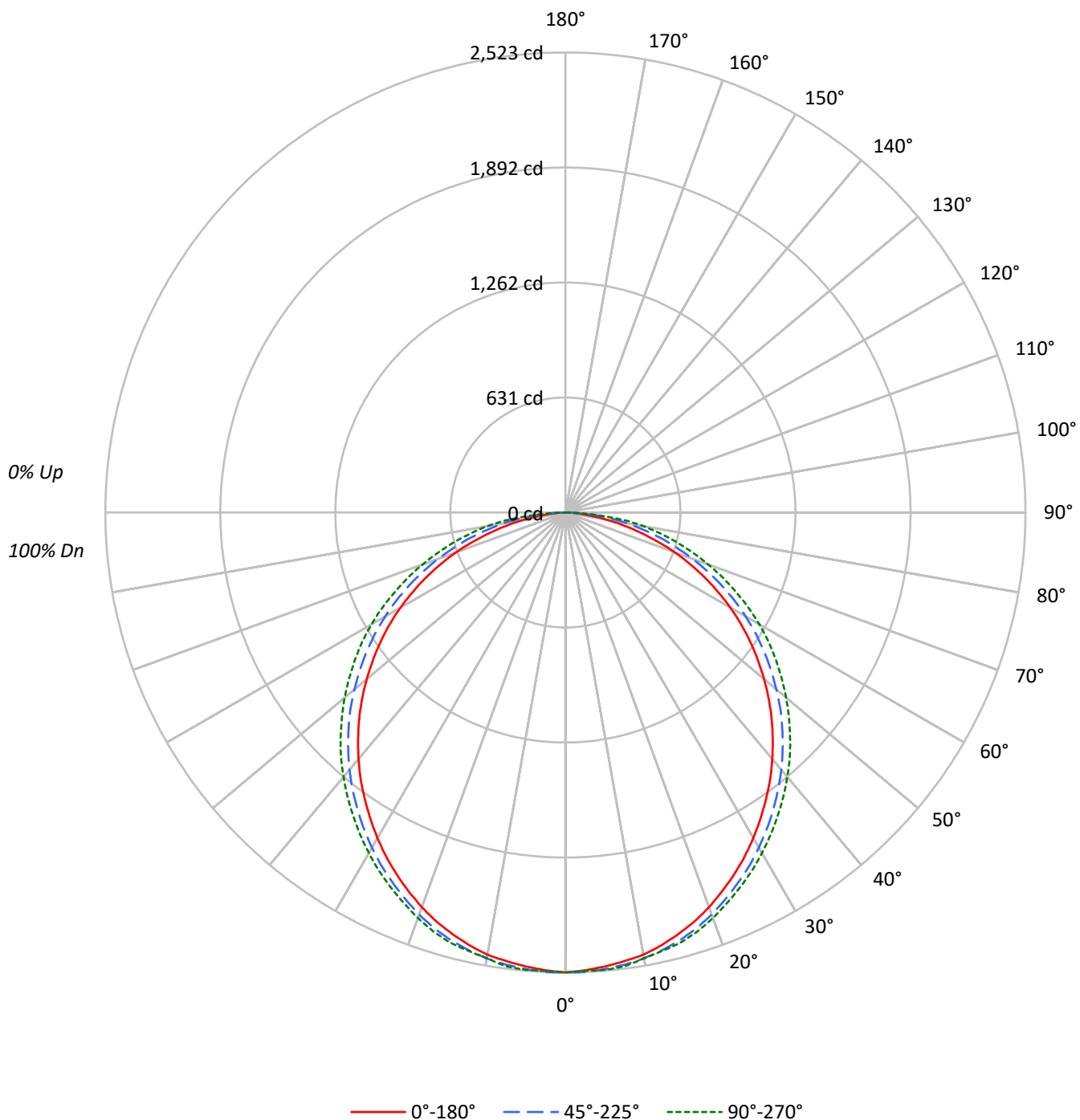
Lumens per Lamp: N/A
Luminaire Lumens: 7338.0 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1590042

CATALOG NUMBER: 24CZSP-SB-80-L930-S

Luminous Intensity Polar Plot



TEST NUMBER: P1590042

CATALOG NUMBER: 24CZSP-SB-80-L930-S

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°	3864	3864	3864
5°	3842	3864	3871
10°	3830	3862	3859
15°	3795	3850	3872
20°	3754	3823	3857
25°	3700	3786	3834
30°	3646	3752	3814
35°	3586	3716	3796
40°	3529	3683	3784
45°	3464	3645	3775
50°	3389	3600	3765
55°	3305	3553	3760
60°	3201	3501	3762
65°	3055	3427	3742
70°	2856	3322	3733
75°	2532	3195	3746
80°	2060	3035	3857
85°	1332	2801	3328

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3909 cd/sqm

TEST NUMBER: P1590042

CATALOG NUMBER: 24CZSP-SB-80-L930-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.7	3.3
10°-20°	683.6	9.3
20°-30°	1030.7	14.0
30°-40°	1240.2	16.9
40°-50°	1293.6	17.6
50°-60°	1185.7	16.2
60°-70°	931.1	12.7
70°-80°	566.7	7.7
80°-90°	167.6	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°	1953.0	26.6
0°-40°	3193.2	43.5
0°-60°	5672.6	77.3
0°-90°	7338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7338.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2523	2523	2523	2523	2523	
5°	2499	2515	2513	2510	2518	237
15°	2393	2417	2428	2431	2442	675
25°	2190	2220	2240	2254	2268	1009
35°	1918	1948	1987	2016	2030	1200
45°	1599	1632	1683	1722	1743	1233
55°	1238	1269	1331	1384	1408	1106
65°	843	874	946	1009	1032	834
75°	428	467	540	605	633	453
85°	76	107	159	178	189	99
90°	0	0	0	0	0	

TEST NUMBER: P1590042

CATALOG NUMBER: 24CZSP-SB-80-L930-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2522.6	2522.6	2522.6	2522.6	2522.6
2.5°	2513.1	2525.7	2522.6	2511.5	2516.2
5°	2498.9	2514.7	2513.1	2509.9	2517.8
7.5°	2481.5	2498.9	2500.5	2500.5	2509.9
10°	2462.6	2479.9	2483.1	2478.4	2481.5
12.5°	2431.0	2451.5	2457.8	2457.8	2462.6
15°	2393.1	2416.8	2427.8	2431.0	2442.0
17.5°	2352.1	2377.3	2391.5	2399.4	2408.9
20°	2303.1	2330.0	2345.8	2355.2	2366.3
22.5°	2247.9	2277.9	2295.2	2304.7	2317.3
25°	2189.5	2219.5	2240.0	2254.2	2268.4
27.5°	2127.9	2156.3	2184.7	2202.1	2214.7
30°	2061.6	2091.6	2121.6	2143.7	2156.3
32.5°	1990.6	2022.1	2056.9	2080.6	2094.8
35°	1918.0	1948.0	1987.4	2015.8	2030.0
37.5°	1843.8	1875.3	1916.4	1946.4	1963.7
40°	1764.8	1798.0	1842.2	1875.3	1892.7
42.5°	1682.8	1714.3	1763.3	1801.1	1821.7
45°	1599.1	1632.2	1682.8	1722.2	1742.7
47.5°	1512.3	1543.8	1599.1	1644.9	1662.2
50°	1422.3	1452.3	1510.7	1559.6	1580.1
52.5°	1330.7	1362.3	1420.7	1472.8	1494.9
55°	1237.6	1269.2	1330.7	1384.4	1408.1
57.5°	1142.9	1174.5	1237.6	1292.8	1321.3
60°	1045.0	1076.6	1142.9	1199.7	1228.1
62.5°	944.0	977.1	1045.0	1103.4	1133.4
65°	843.0	874.5	945.6	1008.7	1032.4
67.5°	741.9	773.5	843.0	906.1	934.5
70°	637.7	674.0	741.9	808.2	833.5
72.5°	528.8	569.9	637.7	707.2	732.5
75°	427.8	467.3	539.9	604.6	633.0
77.5°	328.3	371.0	438.8	505.1	533.6
80°	233.6	274.7	344.1	407.3	437.3
82.5°	148.4	184.7	254.1	311.0	333.1
85°	75.8	107.3	159.4	178.4	189.4
87.5°	22.1	37.9	56.8	71.0	78.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1590042

CATALOG NUMBER: 24CZSP-SB-80-L930-S

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	16.2	17.9	16.6	18.2	18.5	16.9	18.6	17.3	18.9	19.2
	3H	18.0	19.5	18.3	19.8	20.2	19.0	20.5	19.4	20.8	21.2
	4H	18.6	20.0	19.0	20.4	20.7	19.9	21.3	20.3	21.6	22.0
	6H	19.0	20.3	19.4	20.7	21.1	20.6	21.9	21.0	22.3	22.7
	8H	19.1	20.4	19.5	20.7	21.1	20.9	22.2	21.3	22.6	23.0
	12H	19.1	20.4	19.6	20.7	21.2	21.1	22.3	21.5	22.7	23.1
4H	2H	17.0	18.4	17.4	18.7	19.1	17.5	19.0	17.9	19.3	19.7
	3H	19.0	20.2	19.4	20.5	20.9	19.8	21.0	20.3	21.4	21.8
	4H	19.7	20.8	20.1	21.2	21.6	20.9	22.0	21.3	22.4	22.8
	6H	20.2	21.2	20.7	21.6	22.1	21.8	22.7	22.2	23.2	23.6
	8H	20.4	21.3	20.8	21.7	22.2	22.1	23.0	22.6	23.5	23.9
	12H	20.4	21.2	20.9	21.7	22.2	22.4	23.2	22.9	23.7	24.1
8H	4H	20.1	21.0	20.6	21.5	21.9	21.2	22.1	21.6	22.5	23.0
	6H	20.8	21.5	21.3	22.0	22.5	22.2	23.0	22.7	23.5	23.9
	8H	21.0	21.7	21.5	22.2	22.7	22.7	23.4	23.2	23.9	24.3
	12H	21.2	21.7	21.7	22.2	22.8	23.0	23.6	23.6	24.1	24.7
12H	4H	20.2	21.0	20.7	21.5	22.0	21.2	22.0	21.7	22.5	22.9
	6H	20.9	21.6	21.5	22.1	22.6	22.3	23.0	22.8	23.4	24.0
	8H	21.2	21.8	21.7	22.3	22.8	22.8	23.4	23.3	23.9	24.4

(END OF REPORT)