

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1588382

Luminaire Tested: 24CZSP-57-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-57-L930-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

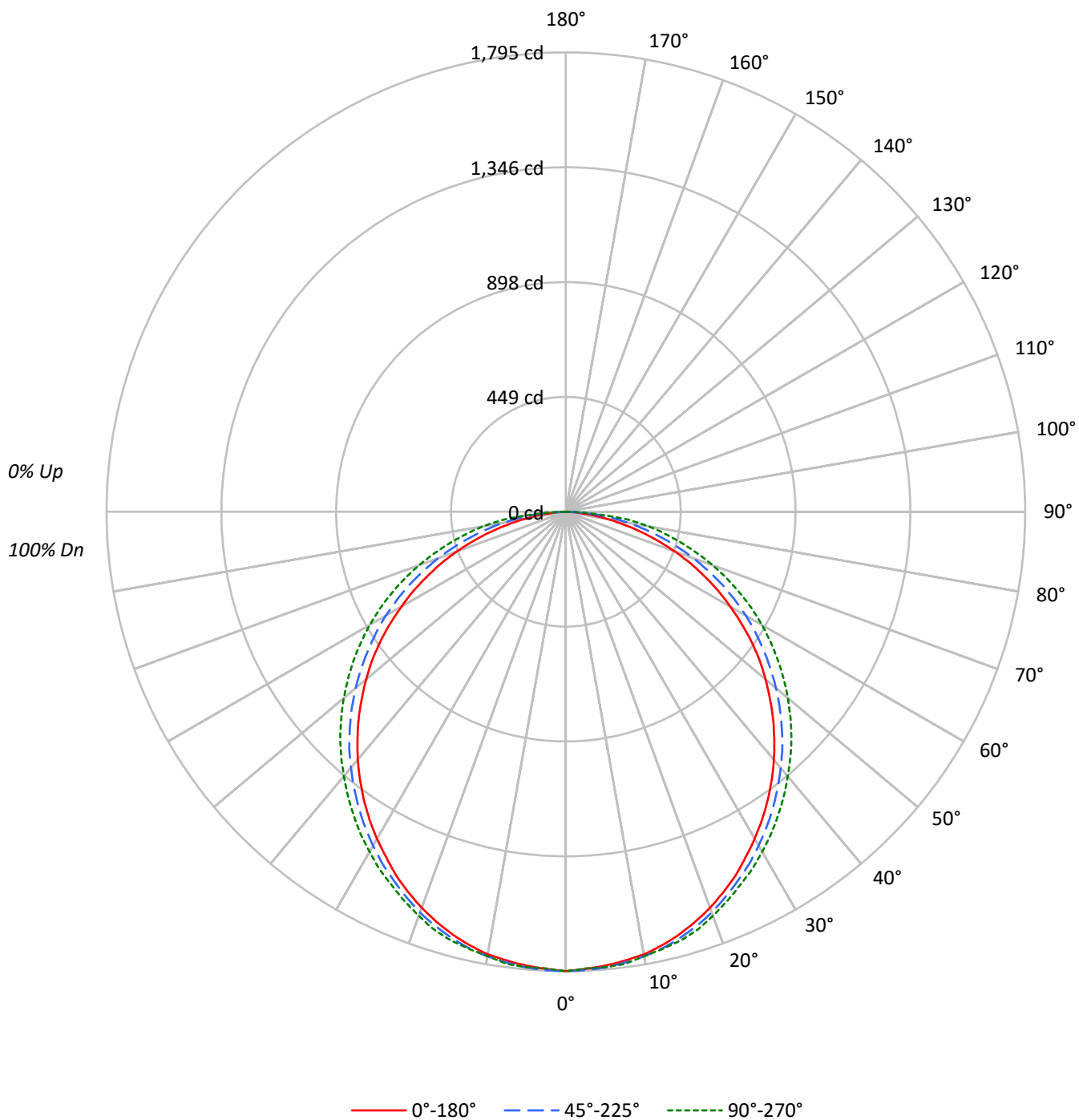
Lumens per Lamp: N/A
Luminaire Lumens: 5241.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: 24 FT

TEST NUMBER: P1588382

CATALOG NUMBER: 24CZSP-57-L930-S

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	69
3	89	79	70	64	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°	2750	2750	2750
5°	2737	2748	2746
10°	2731	2744	2742
15°	2712	2734	2750
20°	2684	2716	2739
25°	2651	2688	2721
30°	2610	2664	2713
35°	2572	2638	2705
40°	2529	2612	2697
45°	2481	2586	2700
50°	2428	2554	2699
55°	2365	2518	2702
60°	2276	2491	2709
65°	2172	2442	2717
70°	2024	2374	2729
75°	1804	2280	2756
80°	1492	2171	2891
85°	970	1961	2527

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2983 cd/sqm

TEST NUMBER: P1588382

CATALOG NUMBER: 24CZSP-57-L930-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	3.2
10°-20°	486.1	9.3
20°-30°	733.2	14.0
30°-40°	883.1	16.8
40°-50°	922.3	17.6
50°-60°	847.0	16.2
60°-70°	667.1	12.7
70°-80°	409.3	7.8
80°-90°	123.2	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°	1389.1	26.5
0°-40°	2272.2	43.4
0°-60°	4041.5	77.1
0°-90°	5241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5241.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1795	1795	1795	1795	1795	
5°	1780	1782	1787	1793	1786	169
15°	1710	1714	1724	1734	1734	482
25°	1569	1572	1590	1610	1610	722
35°	1375	1382	1411	1440	1447	860
45°	1145	1158	1194	1235	1247	883
55°	886	902	943	996	1012	791
65°	599	620	674	730	750	593
75°	305	329	385	446	466	323
85°	55	76	112	142	144	72
90°	0	0	0	0	0	

TEST NUMBER: P1588382

CATALOG NUMBER: 24CZSP-57-L930-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1795.2	1795.2	1795.2	1795.2	1795.2
2.5°	1788.3	1791.7	1792.9	1794.0	1786.0
5°	1780.2	1782.5	1787.1	1792.9	1786.0
7.5°	1768.7	1771.0	1776.8	1784.8	1781.4
10°	1756.1	1757.2	1764.1	1769.9	1763.0
12.5°	1735.4	1738.8	1746.9	1751.5	1749.2
15°	1710.1	1713.5	1723.9	1734.2	1734.2
17.5°	1680.2	1684.8	1697.4	1711.2	1712.4
20°	1646.8	1650.3	1666.4	1680.2	1680.2
22.5°	1608.9	1613.5	1629.6	1644.5	1646.8
25°	1568.6	1572.1	1590.5	1610.0	1610.0
27.5°	1521.5	1528.4	1551.4	1570.9	1575.5
30°	1475.5	1481.2	1506.5	1530.7	1534.1
32.5°	1427.2	1434.1	1460.5	1487.0	1492.7
35°	1375.4	1382.3	1411.1	1439.8	1446.7
37.5°	1321.4	1329.4	1359.3	1392.7	1399.6
40°	1265.0	1274.2	1306.4	1342.1	1349.0
42.5°	1205.2	1217.9	1252.4	1289.2	1299.5
45°	1145.4	1158.1	1193.7	1235.1	1246.6
47.5°	1082.2	1097.1	1133.9	1177.6	1190.3
50°	1018.9	1033.9	1071.8	1119.0	1132.8
52.5°	954.5	969.5	1008.6	1058.0	1073.0
55°	885.5	901.6	943.0	995.9	1012.0
57.5°	814.2	834.9	878.6	932.7	948.8
60°	742.9	763.6	813.1	866.0	884.4
62.5°	672.8	692.3	742.9	799.3	818.8
65°	599.2	619.9	673.9	730.3	749.8
67.5°	526.7	547.4	601.5	660.1	680.8
70°	452.0	475.0	530.2	588.8	609.5
72.5°	377.2	401.4	457.7	517.5	537.1
75°	304.8	328.9	385.3	446.2	465.8
77.5°	233.5	259.9	315.1	377.2	395.6
80°	169.1	194.4	246.1	307.1	327.8
82.5°	108.1	130.0	181.7	239.2	254.2
85°	55.2	75.9	111.6	141.5	143.8
87.5°	17.3	24.2	36.8	55.2	56.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588382

CATALOG NUMBER: 24CZSP-57-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	14.99	16.65	15.36	16.97	17.28	15.82	17.48	16.19	17.80	18.11
	3H	16.75	18.26	17.12	18.58	18.94	17.94	19.45	18.32	19.77	20.13
	4H	17.37	18.79	17.76	19.14	19.51	18.83	20.25	19.23	20.60	20.97
	6H	17.78	19.10	18.19	19.46	19.85	19.61	20.93	20.02	21.29	21.68
	8H	17.89	19.15	18.31	19.54	19.93	19.93	21.19	20.35	21.58	21.98
	12H	17.94	19.15	18.37	19.53	19.96	20.14	21.35	20.57	21.73	22.16
4H	2H	15.76	17.19	16.16	17.53	17.91	16.41	17.83	16.81	18.18	18.55
	3H	17.74	18.94	18.15	19.34	19.74	18.77	19.96	19.17	20.36	20.76
	4H	18.48	19.56	18.91	19.98	20.41	19.82	20.90	20.25	21.32	21.75
	6H	19.01	19.96	19.46	20.40	20.85	20.77	21.72	21.22	22.16	22.62
	8H	19.15	20.05	19.61	20.49	20.95	21.17	22.06	21.63	22.50	22.96
	12H	19.24	20.04	19.72	20.51	20.98	21.44	22.25	21.92	22.72	23.19
8H	4H	18.94	19.83	19.40	20.27	20.73	20.11	21.00	20.57	21.44	21.90
	6H	19.60	20.34	20.09	20.83	21.30	21.22	21.96	21.71	22.45	22.92
	8H	19.81	20.48	20.32	20.98	21.47	21.73	22.40	22.24	22.90	23.39
	12H	19.95	20.54	20.45	21.03	21.59	22.12	22.71	22.62	23.20	23.76
12H	4H	19.03	19.83	19.51	20.30	20.77	20.13	20.93	20.61	21.41	21.88
	6H	19.73	20.40	20.24	20.90	21.39	21.27	21.94	21.77	22.44	22.92
	8H	20.01	20.60	20.51	21.09	21.65	21.84	22.44	22.35	22.93	23.48