

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: P1588462

Luminaire Tested: 24CZSP-65-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588462
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-65-L930-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 6000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

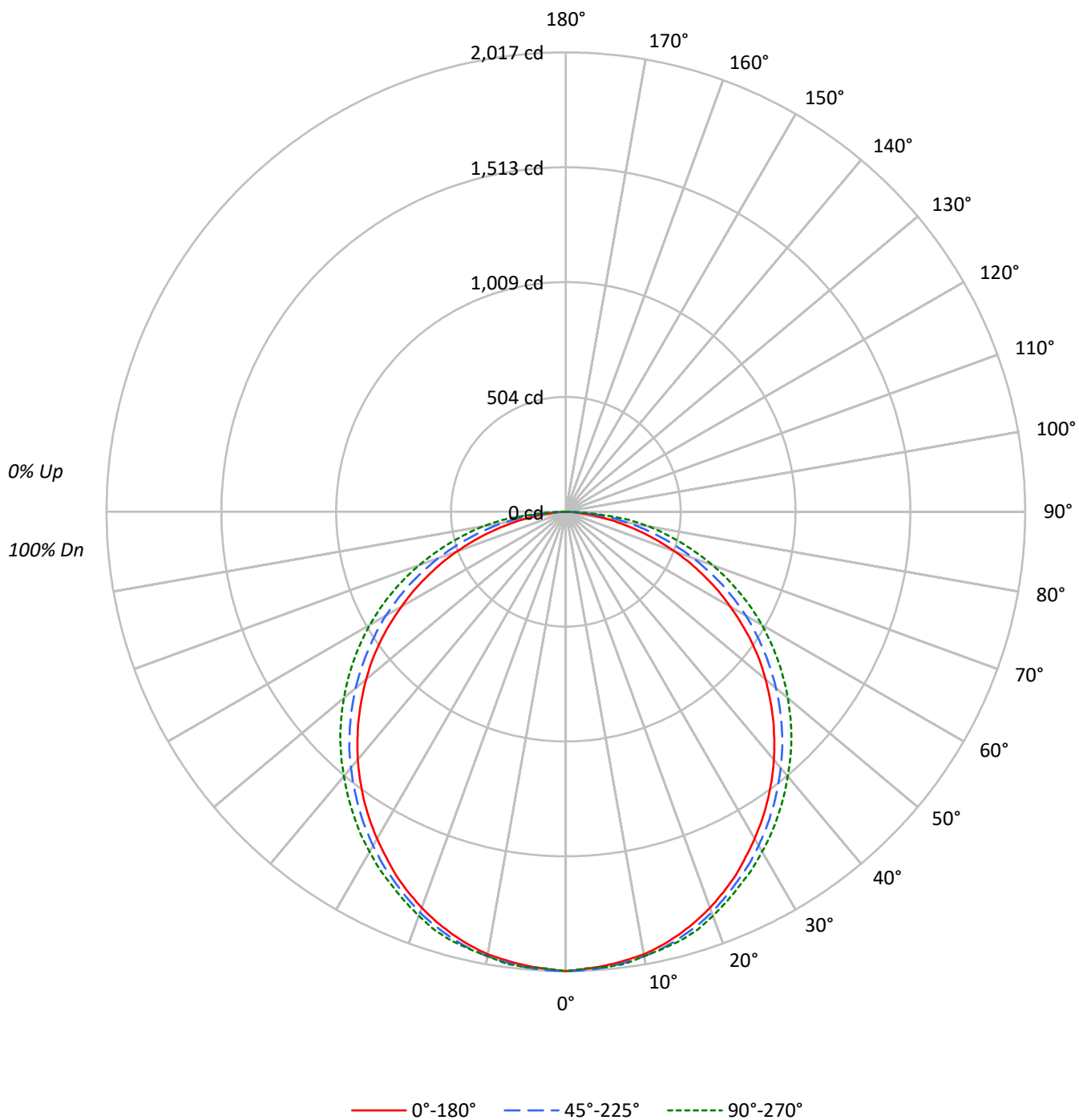
Lumens per Lamp: N/A
Luminaire Lumens: 5889.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 47.9
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

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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	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°	3089	3089	3089
5°	3075	3087	3085
10°	3069	3083	3081
15°	3047	3071	3090
20°	3016	3052	3077
25°	2979	3020	3057
30°	2932	2994	3049
35°	2890	2965	3039
40°	2842	2935	3031
45°	2788	2905	3034
50°	2728	2870	3033
55°	2657	2829	3036
60°	2557	2799	3044
65°	2440	2744	3053
70°	2274	2668	3067
75°	2026	2562	3097
80°	1676	2439	3249
85°	1090	2202	2838

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3351 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.8	3.2
10°-20°	546.3	9.3
20°-30°	823.8	14.0
30°-40°	992.3	16.8
40°-50°	1036.3	17.6
50°-60°	951.7	16.2
60°-70°	749.6	12.7
70°-80°	459.9	7.8
80°-90°	138.4	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°	1560.9	26.5
0°-40°	2553.1	43.4
0°-60°	4541.1	77.1
0°-90°	5889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5889.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2017	2017	2017	2017	2017	
5°	2000	2003	2008	2015	2007	190
15°	1922	1925	1937	1949	1949	542
25°	1763	1766	1787	1809	1809	811
35°	1546	1553	1586	1618	1626	967
45°	1287	1301	1341	1388	1401	992
55°	995	1013	1060	1119	1137	888
65°	673	696	757	821	842	666
75°	342	370	433	501	523	363
85°	62	85	125	159	162	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2017.1	2017.1	2017.1	2017.1	2017.1
2.5°	2009.4	2013.3	2014.6	2015.8	2006.8
5°	2000.3	2002.9	2008.1	2014.6	2006.8
7.5°	1987.4	1990.0	1996.5	2005.5	2001.6
10°	1973.2	1974.5	1982.3	1988.7	1981.0
12.5°	1949.9	1953.8	1962.9	1968.0	1965.5
15°	1921.5	1925.4	1937.0	1948.7	1948.7
17.5°	1887.9	1893.1	1907.3	1922.8	1924.1
20°	1850.4	1854.3	1872.4	1887.9	1887.9
22.5°	1807.8	1813.0	1831.1	1847.9	1850.4
25°	1762.6	1766.5	1787.1	1809.1	1809.1
27.5°	1709.6	1717.3	1743.2	1765.2	1770.3
30°	1657.9	1664.4	1692.8	1719.9	1723.8
32.5°	1603.6	1611.4	1641.1	1670.8	1677.3
35°	1545.5	1553.2	1585.5	1617.8	1625.6
37.5°	1484.7	1493.8	1527.4	1564.9	1572.6
40°	1421.4	1431.8	1468.0	1508.0	1515.8
42.5°	1354.2	1368.5	1407.2	1448.6	1460.2
45°	1287.0	1301.3	1341.3	1387.8	1400.8
47.5°	1216.0	1232.8	1274.1	1323.2	1337.4
50°	1144.9	1161.7	1204.3	1257.3	1272.8
52.5°	1072.5	1089.3	1133.3	1188.8	1205.6
55°	995.0	1013.1	1059.6	1119.1	1137.1
57.5°	914.9	938.1	987.2	1048.0	1066.1
60°	834.8	858.0	913.6	973.0	993.7
62.5°	755.9	777.9	834.8	898.1	920.1
65°	673.2	696.5	757.2	820.6	842.5
67.5°	591.8	615.1	675.8	741.7	765.0
70°	507.8	533.7	595.7	661.6	684.9
72.5°	423.8	451.0	514.3	581.5	603.5
75°	342.4	369.6	432.9	501.4	523.3
77.5°	262.3	292.0	354.1	423.8	444.5
80°	190.0	218.4	276.5	345.0	368.3
82.5°	121.5	146.0	204.2	268.8	285.6
85°	62.0	85.3	125.3	158.9	161.5
87.5°	19.4	27.1	41.4	62.0	63.3
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	15.40	17.06	15.76	17.37	17.69	16.23	17.89	16.59	18.20	18.52
	3H	17.15	18.66	17.53	18.99	19.35	18.34	19.85	18.72	20.18	20.54
	4H	17.77	19.19	18.17	19.54	19.92	19.23	20.66	19.63	21.00	21.38
	6H	18.18	19.50	18.59	19.87	20.26	20.01	21.33	20.42	21.70	22.09
	8H	18.29	19.55	18.71	19.94	20.34	20.33	21.60	20.76	21.99	22.38
	12H	18.34	19.55	18.77	19.93	20.36	20.55	21.76	20.97	22.14	22.57
4H	2H	16.17	17.59	16.57	17.94	18.31	16.82	18.24	17.21	18.58	18.96
	3H	18.15	19.34	18.55	19.74	20.14	19.17	20.37	19.58	20.76	21.16
	4H	18.88	19.97	19.31	20.38	20.82	20.22	21.31	20.65	21.72	22.16
	6H	19.41	20.36	19.86	20.80	21.26	21.17	22.13	21.63	22.57	23.02
	8H	19.56	20.45	20.02	20.89	21.36	21.57	22.46	22.03	22.91	23.37
	12H	19.64	20.45	20.12	20.92	21.39	21.85	22.65	22.33	23.13	23.59
8H	4H	19.34	20.23	19.80	20.68	21.14	20.51	21.40	20.97	21.85	22.31
	6H	20.00	20.75	20.49	21.23	21.71	21.62	22.37	22.12	22.85	23.33
	8H	20.21	20.88	20.72	21.39	21.87	22.14	22.80	22.64	23.31	23.79
	12H	20.35	20.94	20.86	21.43	21.99	22.52	23.11	23.03	23.60	24.16
12H	4H	19.43	20.24	19.91	20.71	21.18	20.54	21.34	21.01	21.81	22.28
	6H	20.13	20.80	20.64	21.31	21.79	21.67	22.34	22.18	22.84	23.33
	8H	20.41	21.01	20.92	21.49	22.05	22.25	22.84	22.75	23.33	23.89