

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: P1588448

Luminaire Tested: 24CZSP-62-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588448
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-62-L945-S
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 5500 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

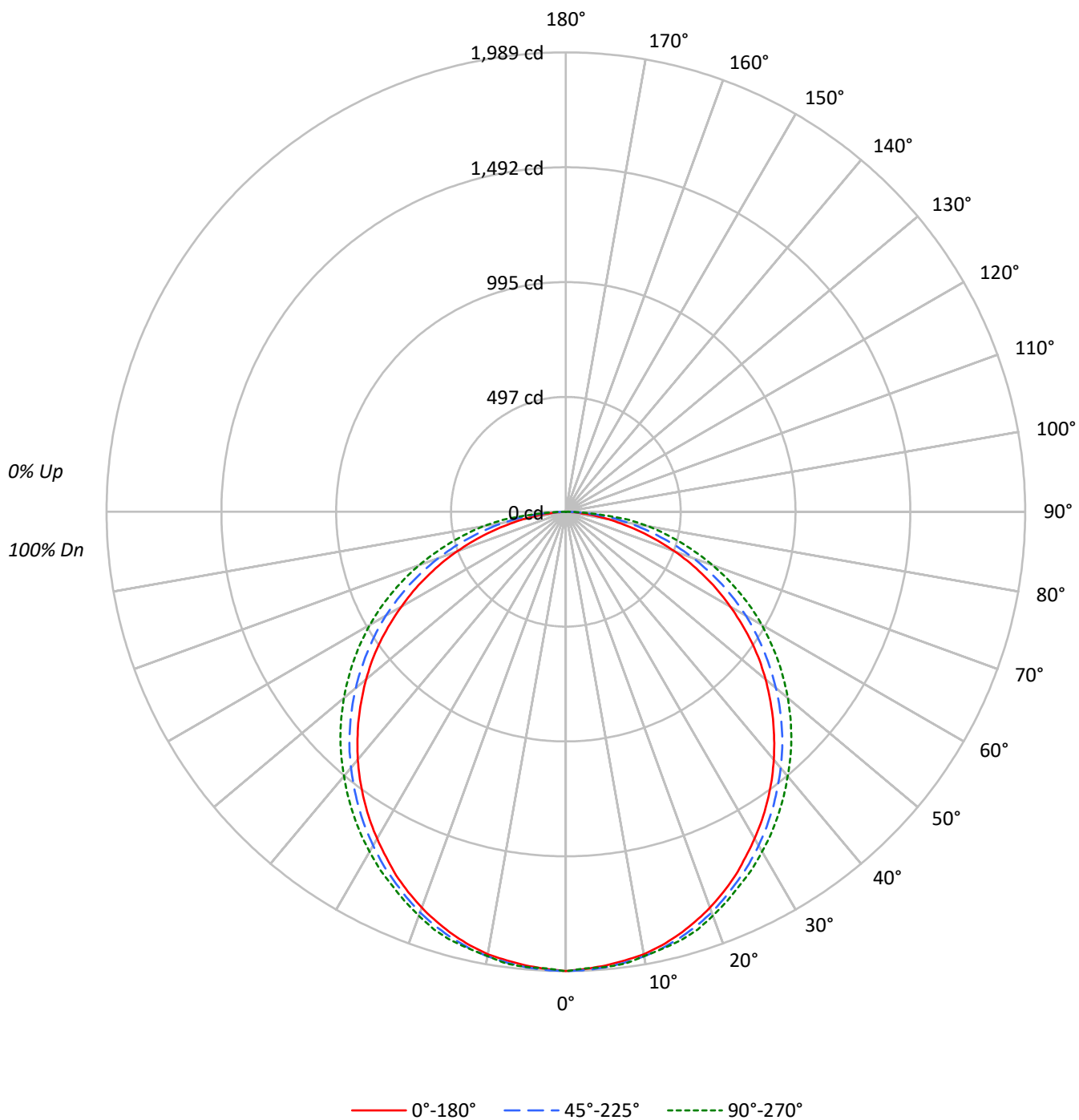
Lumens per Lamp: N/A
Luminaire Lumens: 5806.0 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 44.5
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°	3046	3046	3046
5°	3032	3044	3042
10°	3026	3039	3037
15°	3004	3028	3046
20°	2974	3009	3034
25°	2937	2978	3014
30°	2891	2952	3006
35°	2849	2923	2997
40°	2802	2894	2988
45°	2748	2864	2991
50°	2690	2829	2990
55°	2620	2790	2994
60°	2521	2759	3001
65°	2406	2706	3010
70°	2242	2630	3024
75°	1998	2526	3054
80°	1652	2404	3203
85°	1075	2172	2798

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3304 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.1	3.2
10°-20°	538.6	9.3
20°-30°	812.2	14.0
30°-40°	978.3	16.8
40°-50°	1021.7	17.6
50°-60°	938.3	16.2
60°-70°	739.0	12.7
70°-80°	453.4	7.8
80°-90°	136.5	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°	1538.8	26.5
0°-40°	2517.1	43.4
0°-60°	4477.1	77.1
0°-90°	5806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1989	1989	1989	1989	1989	
5°	1972	1975	1980	1986	1978	187
15°	1894	1898	1910	1921	1921	534
25°	1738	1742	1762	1784	1784	800
35°	1524	1531	1563	1595	1603	953
45°	1269	1283	1322	1368	1381	978
55°	981	999	1045	1103	1121	876
65°	664	687	747	809	831	657
75°	338	364	427	494	516	358
85°	61	84	124	157	159	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1988.7	1988.7	1988.7	1988.7	1988.7
2.5°	1981.1	1984.9	1986.2	1987.4	1978.5
5°	1972.1	1974.7	1979.8	1986.2	1978.5
7.5°	1959.4	1962.0	1968.3	1977.2	1973.4
10°	1945.4	1946.7	1954.3	1960.7	1953.0
12.5°	1922.5	1926.3	1935.2	1940.3	1937.8
15°	1894.4	1898.3	1909.7	1921.2	1921.2
17.5°	1861.3	1866.4	1880.4	1895.7	1897.0
20°	1824.4	1828.2	1846.0	1861.3	1861.3
22.5°	1782.3	1787.4	1805.3	1821.8	1824.4
25°	1737.7	1741.6	1761.9	1783.6	1783.6
27.5°	1685.5	1693.1	1718.6	1740.3	1745.4
30°	1634.5	1640.9	1668.9	1695.7	1699.5
32.5°	1581.0	1588.7	1618.0	1647.3	1653.6
35°	1523.7	1531.3	1563.2	1595.0	1602.7
37.5°	1463.8	1472.7	1505.9	1542.8	1550.5
40°	1401.4	1411.6	1447.3	1486.8	1494.4
42.5°	1335.1	1349.2	1387.4	1428.2	1439.6
45°	1268.9	1282.9	1322.4	1368.3	1381.0
47.5°	1198.8	1215.4	1256.2	1304.6	1318.6
50°	1128.8	1145.3	1187.4	1239.6	1254.9
52.5°	1057.4	1074.0	1117.3	1172.1	1188.6
55°	981.0	998.8	1044.7	1103.3	1121.1
57.5°	902.0	924.9	973.3	1033.2	1051.0
60°	823.0	845.9	900.7	959.3	979.7
62.5°	745.3	766.9	823.0	885.4	907.1
65°	663.8	686.7	746.6	809.0	830.6
67.5°	583.5	606.4	666.3	731.3	754.2
70°	500.7	526.2	587.3	652.3	675.2
72.5°	417.9	444.6	507.1	573.3	595.0
75°	337.6	364.4	426.8	494.3	516.0
77.5°	258.6	287.9	349.1	417.9	438.3
80°	187.3	215.3	272.6	340.2	363.1
82.5°	119.8	144.0	201.3	265.0	281.6
85°	61.2	84.1	123.6	156.7	159.2
87.5°	19.1	26.8	40.8	61.2	62.4
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	15.35	17.01	15.71	17.32	17.64	16.18	17.84	16.54	18.15	18.47
	3H	17.10	18.61	17.48	18.94	19.30	18.29	19.80	18.67	20.13	20.49
	4H	17.72	19.14	18.12	19.49	19.87	19.18	20.61	19.58	20.95	21.33
	6H	18.13	19.45	18.54	19.82	20.21	19.96	21.29	20.38	21.65	22.04
	8H	18.24	19.50	18.66	19.89	20.29	20.28	21.55	20.71	21.94	22.33
	12H	18.29	19.50	18.72	19.88	20.31	20.50	21.71	20.92	22.09	22.52
4H	2H	16.12	17.54	16.52	17.89	18.26	16.77	18.19	17.16	18.54	18.91
	3H	18.10	19.29	18.51	19.69	20.09	19.12	20.32	19.53	20.72	21.11
	4H	18.83	19.92	19.26	20.33	20.77	20.17	21.26	20.60	21.67	22.11
	6H	19.36	20.31	19.81	20.75	21.21	21.13	22.08	21.58	22.52	22.97
	8H	19.51	20.40	19.97	20.84	21.31	21.52	22.41	21.98	22.86	23.32
	12H	19.59	20.40	20.07	20.87	21.34	21.80	22.60	22.28	23.08	23.55
8H	4H	19.29	20.18	19.75	20.63	21.09	20.46	21.35	20.92	21.80	22.26
	6H	19.95	20.70	20.45	21.18	21.66	21.57	22.32	22.07	22.80	23.28
	8H	20.16	20.83	20.67	21.34	21.82	22.09	22.75	22.59	23.26	23.74
	12H	20.30	20.90	20.81	21.39	21.94	22.47	23.06	22.98	23.55	24.11
12H	4H	19.38	20.19	19.86	20.66	21.13	20.49	21.29	20.97	21.76	22.23
	6H	20.09	20.76	20.59	21.26	21.74	21.62	22.29	22.13	22.80	23.28
	8H	20.36	20.96	20.87	21.45	22.00	22.20	22.79	22.70	23.28	23.84