

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: P1588444

Luminaire Tested: 24CZSP-62-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588444
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-L935-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5500 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

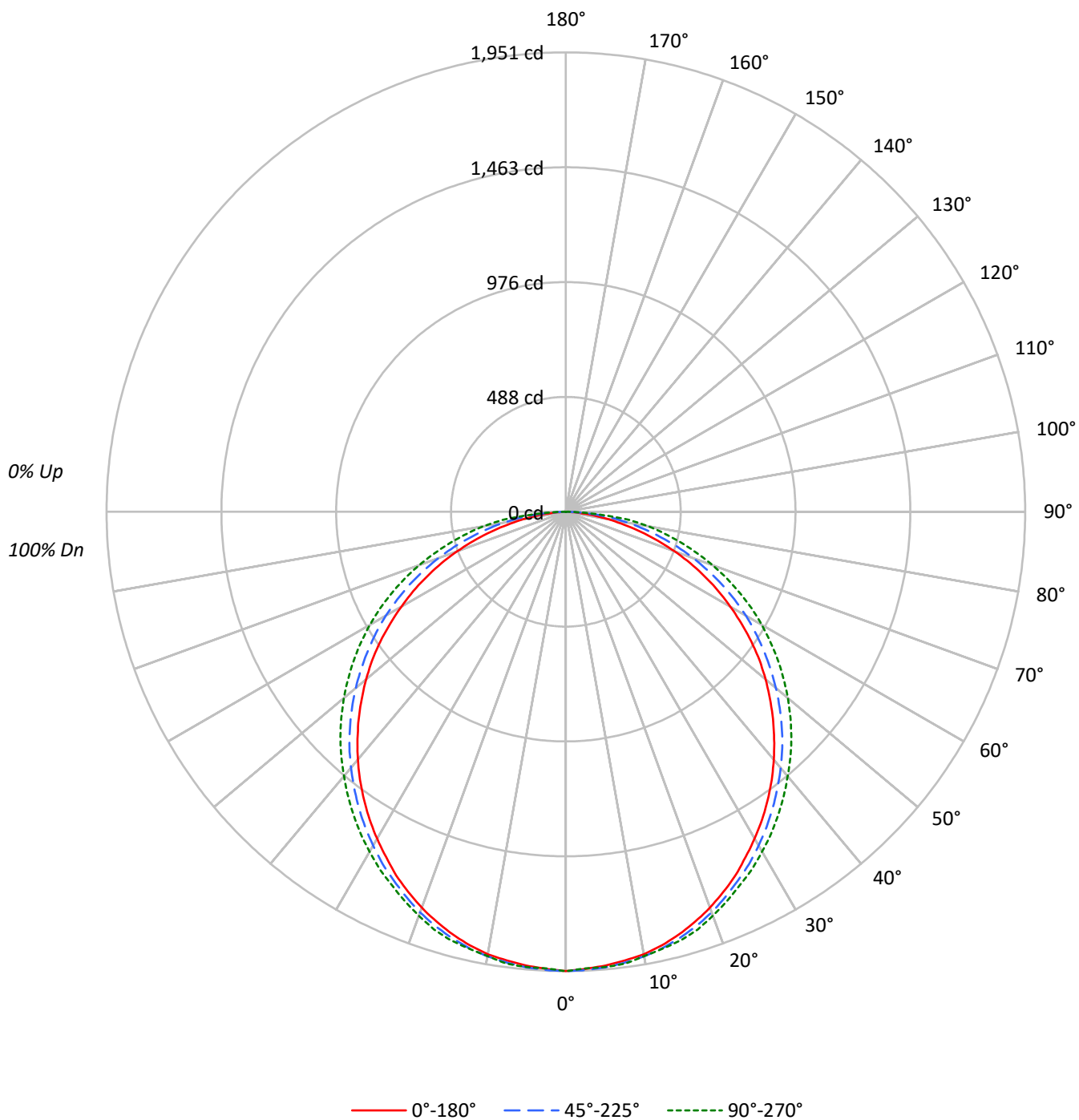
Lumens per Lamp: N/A
Luminaire Lumens: 5695.0 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1588444

CATALOG NUMBER: 24CZSP-62-L935-S

Luminous Intensity Polar Plot



TEST NUMBER: P1588444

CATALOG NUMBER: 24CZSP-62-L935-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	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°	2988	2988	2988
5°	2974	2986	2984
10°	2968	2981	2979
15°	2946	2970	2988
20°	2917	2951	2976
25°	2881	2921	2957
30°	2836	2895	2948
35°	2795	2867	2939
40°	2748	2838	2931
45°	2696	2810	2934
50°	2638	2775	2933
55°	2569	2736	2937
60°	2473	2706	2944
65°	2360	2654	2953
70°	2199	2580	2966
75°	1960	2477	2995
80°	1620	2359	3141
85°	1054	2130	2745

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3241 cd/sqm

TEST NUMBER: P1588444

CATALOG NUMBER: 24CZSP-62-L935-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.5	3.2
10°-20°	528.3	9.3
20°-30°	796.7	14.0
30°-40°	959.6	16.8
40°-50°	1002.2	17.6
50°-60°	920.4	16.2
60°-70°	724.9	12.7
70°-80°	444.7	7.8
80°-90°	133.8	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°	1509.4	26.5
0°-40°	2469.0	43.4
0°-60°	4391.5	77.1
0°-90°	5695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1951	1951	1951	1951	1951	
5°	1934	1937	1942	1948	1941	184
15°	1858	1862	1873	1884	1884	524
25°	1704	1708	1728	1750	1750	785
35°	1495	1502	1533	1565	1572	935
45°	1245	1258	1297	1342	1355	960
55°	962	980	1025	1082	1100	859
65°	651	674	732	794	815	644
75°	331	357	419	485	506	351
85°	60	82	121	154	156	78
90°	0	0	0	0	0	

TEST NUMBER: P1588444

CATALOG NUMBER: 24CZSP-62-L935-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1950.7	1950.7	1950.7	1950.7	1950.7
2.5°	1943.2	1946.9	1948.2	1949.4	1940.7
5°	1934.4	1936.9	1941.9	1948.2	1940.7
7.5°	1921.9	1924.4	1930.7	1939.4	1935.7
10°	1908.2	1909.5	1916.9	1923.2	1915.7
12.5°	1885.7	1889.5	1898.2	1903.2	1900.7
15°	1858.2	1862.0	1873.2	1884.5	1884.5
17.5°	1825.7	1830.7	1844.5	1859.5	1860.7
20°	1789.5	1793.2	1810.7	1825.7	1825.7
22.5°	1748.2	1753.2	1770.7	1787.0	1789.5
25°	1704.5	1708.3	1728.3	1749.5	1749.5
27.5°	1653.3	1660.8	1685.8	1707.0	1712.0
30°	1603.3	1609.5	1637.0	1663.3	1667.0
32.5°	1550.8	1558.3	1587.0	1615.8	1622.0
35°	1494.6	1502.1	1533.3	1564.6	1572.0
37.5°	1435.8	1444.6	1477.1	1513.3	1520.8
40°	1374.6	1384.6	1419.6	1458.3	1465.8
42.5°	1309.6	1323.4	1360.9	1400.8	1412.1
45°	1244.6	1258.4	1297.1	1342.1	1354.6
47.5°	1175.9	1192.2	1232.1	1279.6	1293.4
50°	1107.2	1123.4	1164.7	1215.9	1230.9
52.5°	1037.2	1053.4	1095.9	1149.7	1165.9
55°	962.2	979.7	1024.7	1082.2	1099.7
57.5°	884.7	907.2	954.7	1013.5	1031.0
60°	807.3	829.8	883.5	941.0	961.0
62.5°	731.0	752.3	807.3	868.5	889.7
65°	651.1	673.6	732.3	793.5	814.8
67.5°	572.3	594.8	653.6	717.3	739.8
70°	491.1	516.1	576.1	639.8	662.3
72.5°	409.9	436.1	497.4	562.3	583.6
75°	331.2	357.4	418.6	484.9	506.1
77.5°	253.7	282.4	342.4	409.9	429.9
80°	183.7	211.2	267.4	333.7	356.1
82.5°	117.5	141.2	197.4	259.9	276.2
85°	60.0	82.5	121.2	153.7	156.2
87.5°	18.7	26.2	40.0	60.0	61.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588444

CATALOG NUMBER: 24CZSP-62-L935-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	15.28	16.94	15.65	17.26	17.57	16.11	17.77	16.48	18.09	18.40
	3H	17.04	18.54	17.41	18.87	19.23	18.23	19.74	18.60	20.06	20.42
	4H	17.65	19.08	18.05	19.42	19.80	19.12	20.54	19.51	20.89	21.26
	6H	18.07	19.39	18.48	19.75	20.14	19.90	21.22	20.31	21.58	21.97
	8H	18.17	19.44	18.60	19.82	20.22	20.22	21.48	20.64	21.87	22.27
	12H	18.23	19.44	18.65	19.82	20.25	20.43	21.64	20.86	22.02	22.45
4H	2H	16.05	17.47	16.45	17.82	18.20	16.70	18.12	17.10	18.47	18.84
	3H	18.03	19.23	18.44	19.62	20.02	19.05	20.25	19.46	20.65	21.05
	4H	18.77	19.85	19.20	20.27	20.70	20.11	21.19	20.54	21.60	22.04
	6H	19.30	20.25	19.75	20.69	21.14	21.06	22.01	21.51	22.45	22.90
	8H	19.44	20.33	19.90	20.77	21.24	21.46	22.35	21.91	22.79	23.25
	12H	19.53	20.33	20.00	20.80	21.27	21.73	22.54	22.21	23.01	23.48
8H	4H	19.23	20.12	19.68	20.56	21.02	20.40	21.29	20.85	21.73	22.19
	6H	19.89	20.63	20.38	21.12	21.59	21.51	22.25	22.00	22.74	23.21
	8H	20.10	20.77	20.60	21.27	21.76	22.02	22.69	22.53	23.19	23.68
	12H	20.24	20.83	20.74	21.32	21.88	22.40	23.00	22.91	23.49	24.04
12H	4H	19.32	20.12	19.79	20.59	21.06	20.42	21.22	20.90	21.70	22.17
	6H	20.02	20.69	20.53	21.19	21.68	21.55	22.22	22.06	22.73	23.21
	8H	20.30	20.89	20.80	21.38	21.94	22.13	22.72	22.64	23.21	23.77