

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: P1588904

Luminaire Tested: 24CZSP-A-80-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588904
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-A-80-L935-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 8000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

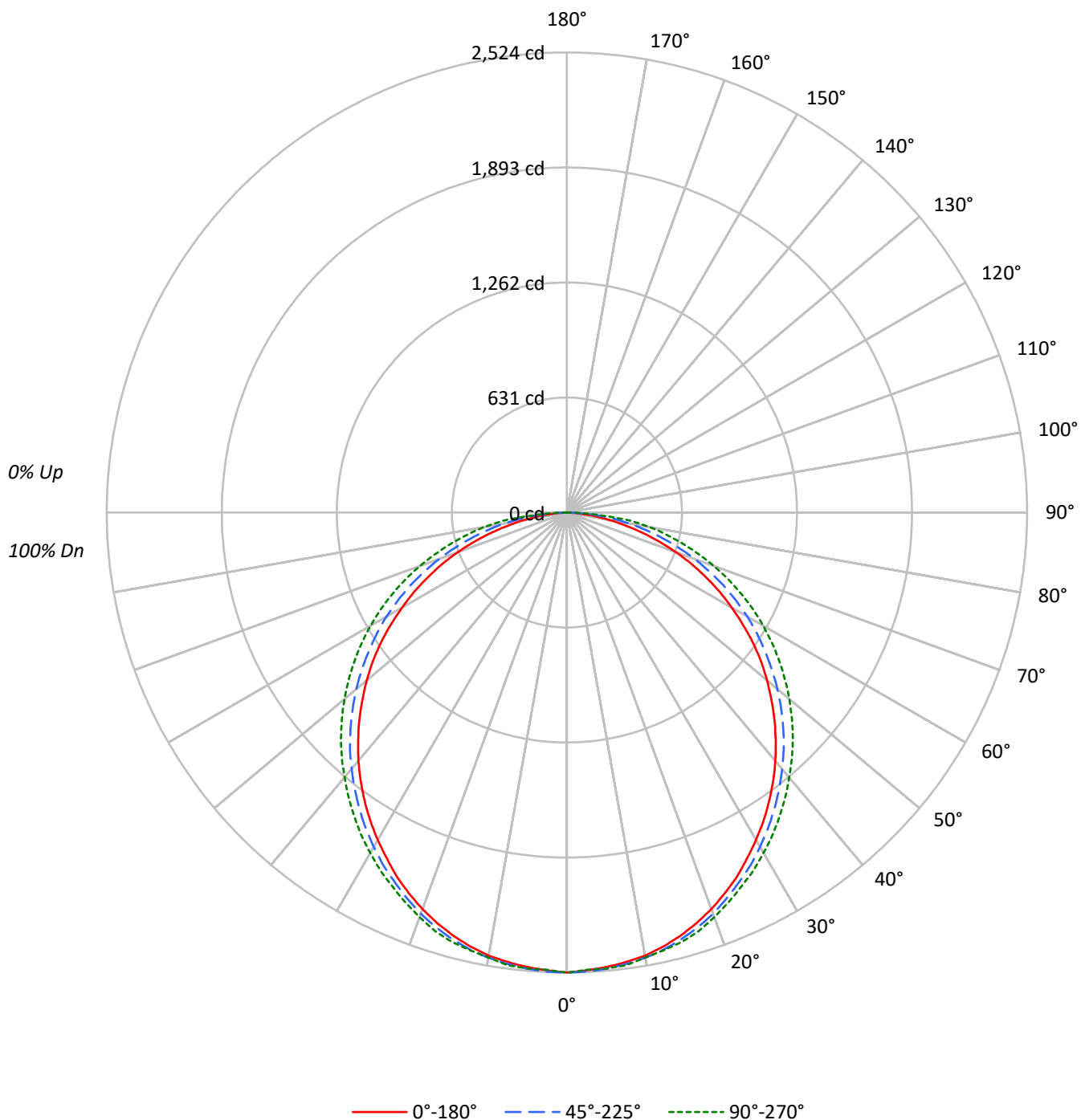
Lumens per Lamp: N/A
Luminaire Lumens: 7369.0 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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: 24 FT

TEST NUMBER: P1588904

CATALOG NUMBER: 24CZSP-A-80-L935-S

Luminous Intensity Polar Plot



TEST NUMBER: P1588904

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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°	3866	3866	3866
5°	3848	3863	3861
10°	3840	3858	3855
15°	3813	3843	3866
20°	3774	3819	3851
25°	3727	3779	3826
30°	3669	3746	3815
35°	3616	3710	3803
40°	3556	3673	3792
45°	3488	3635	3797
50°	3414	3591	3795
55°	3325	3541	3800
60°	3200	3502	3809
65°	3053	3434	3821
70°	2846	3338	3838
75°	2536	3206	3876
80°	2097	3052	4064
85°	1364	2756	3552

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4193 cd/sqm

TEST NUMBER: P1588904

CATALOG NUMBER: 24CZSP-A-80-L935-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.7	3.2
10°-20°	683.5	9.3
20°-30°	1030.9	14.0
30°-40°	1241.7	16.8
40°-50°	1296.7	17.6
50°-60°	1190.9	16.2
60°-70°	938.0	12.7
70°-80°	575.4	7.8
80°-90°	173.2	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°	1953.1	26.5
0°-40°	3194.8	43.4
0°-60°	5682.4	77.1
0°-90°	7369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2524	2524	2524	2524	2524	
5°	2503	2506	2513	2521	2511	238
15°	2404	2409	2424	2438	2438	678
25°	2206	2210	2236	2264	2264	1015
35°	1934	1944	1984	2024	2034	1210
45°	1610	1628	1678	1737	1753	1242
55°	1245	1268	1326	1400	1423	1112
65°	842	872	948	1027	1054	833
75°	428	462	542	627	655	454
85°	78	107	157	199	202	101
90°	0	0	0	0	0	

TEST NUMBER: P1588904

CATALOG NUMBER: 24CZSP-A-80-L935-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2524.1	2524.1	2524.1	2524.1	2524.1
2.5°	2514.4	2519.2	2520.8	2522.5	2511.1
5°	2503.1	2506.3	2512.8	2520.8	2511.1
7.5°	2486.9	2490.1	2498.2	2509.5	2504.7
10°	2469.1	2470.7	2480.4	2488.5	2478.8
12.5°	2440.0	2444.8	2456.2	2462.6	2459.4
15°	2404.4	2409.3	2423.8	2438.4	2438.4
17.5°	2362.4	2368.9	2386.6	2406.0	2407.7
20°	2315.5	2320.3	2343.0	2362.4	2362.4
22.5°	2262.1	2268.6	2291.2	2312.3	2315.5
25°	2205.5	2210.4	2236.3	2263.7	2263.7
27.5°	2139.2	2148.9	2181.3	2208.8	2215.2
30°	2074.6	2082.6	2118.2	2152.2	2157.0
32.5°	2006.7	2016.4	2053.5	2090.7	2098.8
35°	1933.9	1943.6	1984.0	2024.4	2034.1
37.5°	1857.9	1869.2	1911.3	1958.1	1967.8
40°	1778.7	1791.6	1836.9	1887.0	1896.7
42.5°	1694.6	1712.4	1760.9	1812.6	1827.2
45°	1610.5	1628.3	1678.4	1736.6	1752.8
47.5°	1521.6	1542.6	1594.3	1655.8	1673.6
50°	1432.6	1453.6	1507.0	1573.3	1592.7
52.5°	1342.1	1363.1	1418.1	1487.6	1508.6
55°	1245.1	1267.7	1325.9	1400.3	1422.9
57.5°	1144.8	1173.9	1235.4	1311.4	1334.0
60°	1044.6	1073.7	1143.2	1217.6	1243.4
62.5°	945.9	973.4	1044.6	1123.8	1151.3
65°	842.4	871.5	947.5	1026.8	1054.3
67.5°	740.6	769.7	845.7	928.1	957.2
70°	635.5	667.8	745.4	827.9	857.0
72.5°	530.4	564.3	643.6	727.6	755.1
75°	428.5	462.5	541.7	627.4	654.9
77.5°	328.2	365.4	443.0	530.4	556.2
80°	237.7	273.3	346.0	431.7	460.8
82.5°	152.0	182.7	255.5	336.3	357.3
85°	77.6	106.7	156.8	198.9	202.1
87.5°	24.3	34.0	51.7	77.6	79.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588904

CATALOG NUMBER: 24CZSP-A-80-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	16.18	17.84	16.54	18.15	18.47	17.01	18.67	17.37	18.98	19.30
	3H	17.93	19.44	18.31	19.77	20.12	19.12	20.63	19.50	20.96	21.32
	4H	18.55	19.97	18.95	20.32	20.69	20.01	21.43	20.41	21.78	22.16
	6H	18.96	20.28	19.37	20.65	21.04	20.79	22.11	21.20	22.48	22.87
	8H	19.07	20.33	19.49	20.72	21.12	21.11	22.38	21.54	22.76	23.16
	12H	19.12	20.33	19.55	20.71	21.14	21.32	22.53	21.75	22.92	23.34
4H	2H	16.95	18.37	17.35	18.72	19.09	17.59	19.02	17.99	19.36	19.74
	3H	18.92	20.12	19.33	20.52	20.92	19.95	21.15	20.36	21.54	21.94
	4H	19.66	20.75	20.09	21.16	21.60	21.00	22.09	21.43	22.50	22.93
	6H	20.19	21.14	20.64	21.58	22.04	21.95	22.91	22.41	23.35	23.80
	8H	20.34	21.23	20.80	21.67	22.13	22.35	23.24	22.81	23.68	24.15
	12H	20.42	21.22	20.90	21.70	22.17	22.63	23.43	23.11	23.91	24.37
8H	4H	20.12	21.01	20.58	21.45	21.92	21.29	22.18	21.75	22.62	23.09
	6H	20.78	21.53	21.27	22.01	22.49	22.40	23.15	22.89	23.63	24.11
	8H	20.99	21.66	21.50	22.17	22.65	22.91	23.58	23.42	24.09	24.57
	12H	21.13	21.72	21.64	22.21	22.77	23.30	23.89	23.80	24.38	24.94
12H	4H	20.21	21.01	20.69	21.49	21.96	21.31	22.12	21.79	22.59	23.06
	6H	20.91	21.58	21.42	22.09	22.57	22.45	23.12	22.96	23.62	24.11
	8H	21.19	21.78	21.70	22.27	22.83	23.03	23.62	23.53	24.11	24.67