

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: P1588869

Luminaire Tested: 24CZSP-A-75-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2604-747-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-75-L945
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 7500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

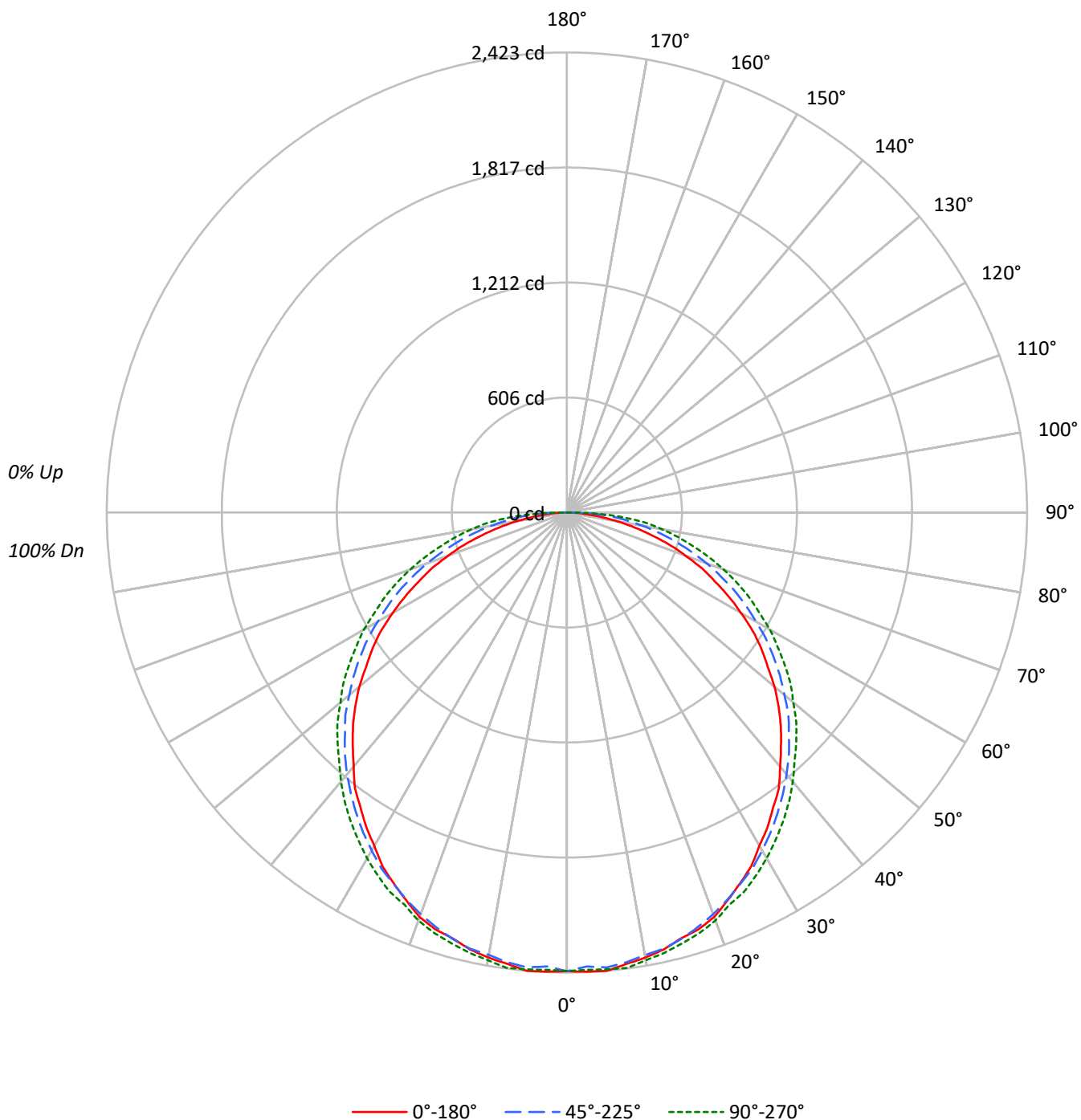
Lumens per Lamp: N/A
Luminaire Lumens: 7373.0 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 59.5
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: P1588869

CATALOG NUMBER: 24CZSP-A-75-L945

Luminous Intensity Polar Plot



TEST NUMBER: P1588869

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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	98	94	105	100	96	92	96	93	89		92	89	87		89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3700	3700	3700
5°	3725	3698	3714
10°	3702	3680	3724
15°	3682	3687	3724
20°	3695	3669	3727
25°	3644	3649	3727
30°	3585	3635	3719
35°	3543	3615	3711
40°	3492	3598	3700
45°	3450	3580	3699
50°	3400	3564	3707
55°	3338	3550	3739
60°	3246	3527	3781
65°	3116	3526	3840
70°	2973	3503	3930
75°	2738	3511	4075
80°	2398	3582	4485
85°	1831	4126	5369

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 5952 cd/sqm

TEST NUMBER: P1588869

CATALOG NUMBER: 24CZSP-A-75-L945

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.4	3.1
10°-20°	659.3	8.9
20°-30°	1001.5	13.6
30°-40°	1213.2	16.5
40°-50°	1276.3	17.3
50°-60°	1186.7	16.1
60°-70°	955.5	13.0
70°-80°	619.0	8.4
80°-90°	232.1	3.1
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°	1890.1	25.6
0°-40°	3103.3	42.1
0°-60°	5566.4	75.5
0°-90°	7373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7373.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2416	2416	2416	2416	2416	
5°	2423	2419	2405	2419	2416	229
15°	2322	2331	2326	2354	2348	658
25°	2156	2154	2160	2197	2205	994
35°	1895	1909	1934	1967	1985	1187
45°	1593	1614	1653	1688	1708	1228
55°	1250	1282	1330	1383	1400	1115
65°	860	899	973	1031	1060	855
75°	463	508	593	662	689	492
85°	104	154	235	293	306	128
90°	0	0	0	0	0	

TEST NUMBER: P1588869

CATALOG NUMBER: 24CZSP-A-75-L945

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2415.6	2415.6	2415.6	2415.6	2415.6
2.5°	2420.9	2420.9	2392.6	2422.6	2410.3
5°	2422.6	2419.1	2405.0	2419.1	2415.6
7.5°	2397.9	2401.4	2389.1	2406.7	2419.1
10°	2380.2	2383.8	2366.1	2394.4	2394.4
12.5°	2357.3	2360.8	2353.8	2380.2	2374.9
15°	2322.0	2330.8	2325.5	2353.8	2348.5
17.5°	2302.6	2295.5	2290.2	2311.4	2322.0
20°	2267.2	2251.3	2251.3	2279.6	2286.7
22.5°	2210.7	2205.4	2207.2	2242.5	2235.5
25°	2156.0	2154.2	2159.5	2196.6	2205.4
27.5°	2101.3	2097.7	2113.6	2148.9	2156.0
30°	2027.1	2034.2	2055.3	2094.2	2103.0
32.5°	1965.3	1977.7	1997.1	2034.2	2044.8
35°	1894.7	1908.8	1933.5	1967.1	1984.7
37.5°	1832.9	1841.7	1868.2	1900.0	1921.1
40°	1746.3	1769.3	1799.3	1845.2	1850.5
42.5°	1668.6	1691.6	1730.4	1779.9	1774.6
45°	1592.7	1613.9	1652.8	1688.1	1707.5
47.5°	1511.5	1530.9	1582.1	1624.5	1638.6
50°	1426.7	1451.5	1495.6	1539.7	1555.6
52.5°	1331.4	1357.9	1414.4	1462.1	1485.0
55°	1250.2	1281.9	1329.6	1382.6	1400.2
57.5°	1160.1	1186.6	1244.9	1297.8	1315.5
60°	1059.5	1091.2	1151.3	1207.8	1234.3
62.5°	962.3	997.7	1061.2	1119.5	1140.7
65°	859.9	898.8	972.9	1031.2	1059.5
67.5°	771.6	803.4	875.8	941.2	971.2
70°	663.9	706.3	782.2	854.6	877.6
72.5°	568.6	605.7	685.1	757.5	785.8
75°	462.6	508.5	593.3	662.2	688.6
77.5°	365.5	413.2	497.9	570.3	600.4
80°	271.9	317.8	406.1	480.3	508.5
82.5°	183.6	229.5	317.8	390.2	422.0
85°	104.2	153.6	234.8	293.1	305.5
87.5°	45.9	88.3	132.4	158.9	169.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588869

CATALOG NUMBER: 24CZSP-A-75-L945

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	16.23	17.91	16.59	18.23	18.54	16.90	18.59	17.27	18.90	19.21
	3H	18.08	19.61	18.46	19.94	20.30	19.12	20.65	19.50	20.98	21.34
	4H	18.77	20.21	19.17	20.56	20.94	20.09	21.53	20.48	21.88	22.25
	6H	19.26	20.60	19.67	20.97	21.36	20.98	22.32	21.39	22.68	23.07
	8H	19.41	20.69	19.83	21.08	21.48	21.38	22.67	21.80	23.05	23.45
	12H	19.50	20.73	19.93	21.11	21.54	21.74	22.97	22.17	23.35	23.78
4H	2H	17.02	18.47	17.42	18.81	19.19	17.54	18.99	17.94	19.33	19.71
	3H	19.11	20.33	19.52	20.73	21.13	20.00	21.22	20.41	21.62	22.02
	4H	19.93	21.04	20.36	21.45	21.89	21.13	22.24	21.56	22.65	23.09
	6H	20.56	21.53	21.01	21.97	22.42	22.20	23.18	22.65	23.62	24.07
	8H	20.75	21.67	21.21	22.11	22.57	22.69	23.61	23.15	24.05	24.51
	12H	20.89	21.71	21.37	22.19	22.65	23.14	23.97	23.62	24.44	24.91
8H	4H	20.44	21.35	20.90	21.79	22.26	21.47	22.39	21.93	22.83	23.29
	6H	21.22	21.99	21.71	22.48	22.95	22.72	23.49	23.21	23.98	24.45
	8H	21.51	22.20	22.01	22.70	23.18	23.35	24.04	23.85	24.54	25.02
	12H	21.72	22.34	22.23	22.83	23.38	23.96	24.57	24.46	25.06	25.62
12H	4H	20.55	21.37	21.02	21.85	22.31	21.51	22.34	21.99	22.81	23.28
	6H	21.39	22.08	21.90	22.59	23.07	22.80	23.49	23.30	23.99	24.48
	8H	21.76	22.37	22.26	22.86	23.42	23.50	24.12	24.01	24.60	25.16