

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: P1588884

Luminaire Tested: 24CZSP-A-75VHE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588884
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-75VHE-L935-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 8000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

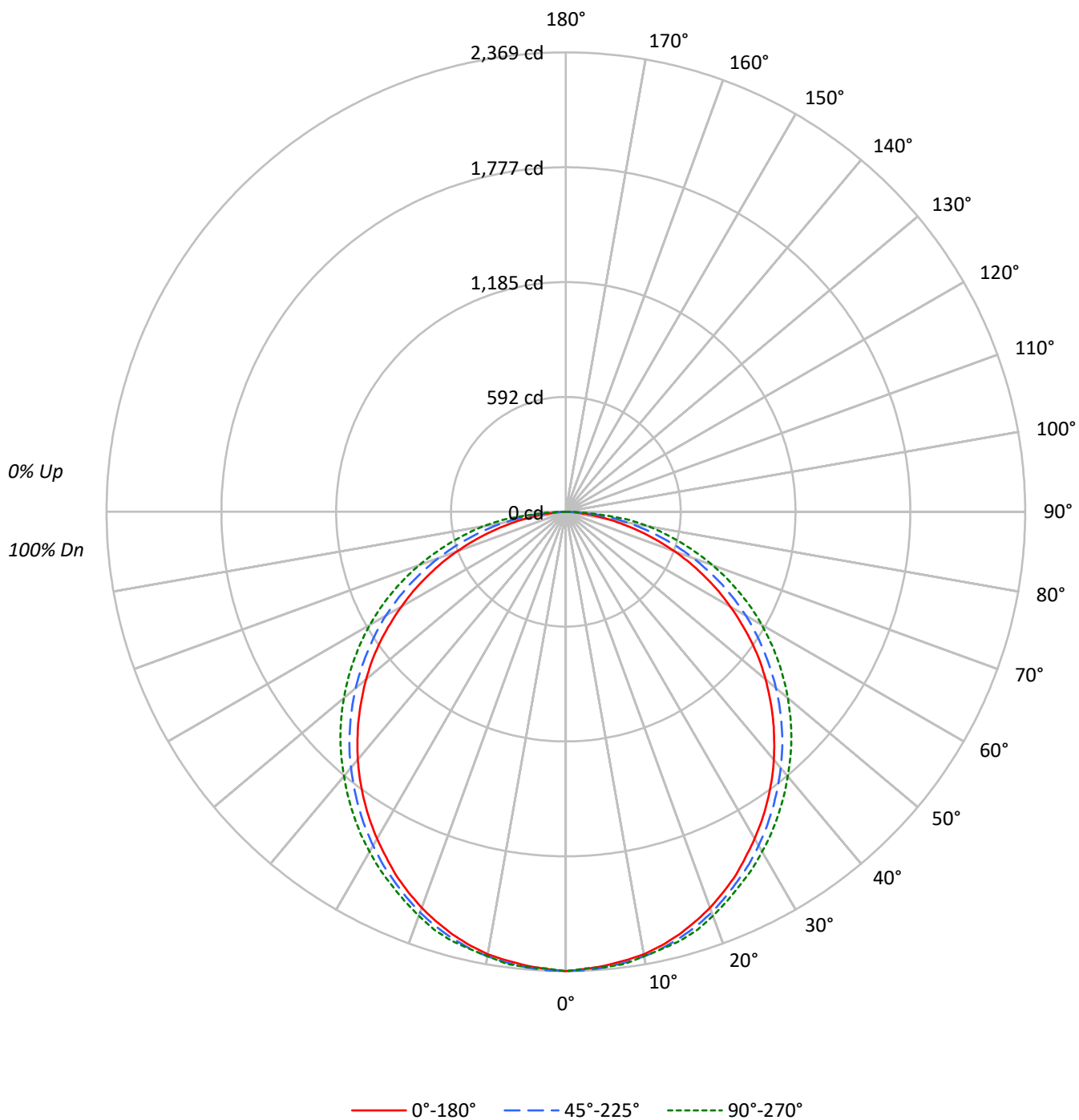
Lumens per Lamp: N/A
Luminaire Lumens: 6916.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 56.9
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

TEST NUMBER: P1588884

CATALOG NUMBER: 24CZSP-A-75VHE-L935-S

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°	3628	3628	3628
5°	3612	3626	3624
10°	3604	3620	3618
15°	3578	3607	3629
20°	3542	3584	3614
25°	3498	3547	3590
30°	3443	3516	3580
35°	3394	3482	3570
40°	3338	3447	3559
45°	3274	3412	3563
50°	3204	3370	3562
55°	3120	3323	3566
60°	3003	3287	3575
65°	2865	3223	3586
70°	2671	3133	3602
75°	2380	3009	3637
80°	1968	2865	3815
85°	1279	2587	3334

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3936 cd/sqm

TEST NUMBER: P1588884

CATALOG NUMBER: 24CZSP-A-75VHE-L935-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.0	3.2
10°-20°	641.5	9.3
20°-30°	967.5	14.0
30°-40°	1165.3	16.8
40°-50°	1217.0	17.6
50°-60°	1117.7	16.2
60°-70°	880.3	12.7
70°-80°	540.1	7.8
80°-90°	162.5	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°	1833.0	26.5
0°-40°	2998.4	43.4
0°-60°	5333.1	77.1
0°-90°	6916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6916.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2369	2369	2369	2369	2369	
5°	2349	2352	2358	2366	2357	223
15°	2257	2261	2275	2288	2288	636
25°	2070	2074	2099	2125	2125	953
35°	1815	1824	1862	1900	1909	1135
45°	1512	1528	1575	1630	1645	1165
55°	1168	1190	1244	1314	1336	1043
65°	791	818	889	964	990	782
75°	402	434	508	589	615	426
85°	73	100	147	187	190	95
90°	0	0	0	0	0	

TEST NUMBER: P1588884

CATALOG NUMBER: 24CZSP-A-75VHE-L935-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2368.9	2368.9	2368.9	2368.9	2368.9
2.5°	2359.8	2364.4	2365.9	2367.4	2356.8
5°	2349.2	2352.2	2358.3	2365.9	2356.8
7.5°	2334.0	2337.0	2344.6	2355.3	2350.7
10°	2317.3	2318.8	2327.9	2335.5	2326.4
12.5°	2290.0	2294.6	2305.2	2311.2	2308.2
15°	2256.6	2261.2	2274.8	2288.5	2288.5
17.5°	2217.2	2223.2	2239.9	2258.1	2259.7
20°	2173.1	2177.7	2198.9	2217.2	2217.2
22.5°	2123.1	2129.1	2150.4	2170.1	2173.1
25°	2070.0	2074.5	2098.8	2124.6	2124.6
27.5°	2007.7	2016.8	2047.2	2073.0	2079.1
30°	1947.0	1954.6	1988.0	2019.9	2024.4
32.5°	1883.3	1892.4	1927.3	1962.2	1969.8
35°	1815.0	1824.1	1862.0	1900.0	1909.1
37.5°	1743.7	1754.3	1793.8	1837.8	1846.9
40°	1669.3	1681.5	1724.0	1771.0	1780.1
42.5°	1590.4	1607.1	1652.6	1701.2	1714.8
45°	1511.5	1528.2	1575.2	1629.9	1645.0
47.5°	1428.0	1447.8	1496.3	1554.0	1570.7
50°	1344.6	1364.3	1414.4	1476.6	1494.8
52.5°	1259.6	1279.3	1330.9	1396.2	1415.9
55°	1168.5	1189.8	1244.4	1314.2	1335.5
57.5°	1074.4	1101.8	1159.4	1230.7	1252.0
60°	980.3	1007.7	1072.9	1142.7	1167.0
62.5°	887.8	913.6	980.3	1054.7	1080.5
65°	790.6	818.0	889.3	963.7	989.5
67.5°	695.0	722.4	793.7	871.1	898.4
70°	596.4	626.8	699.6	777.0	804.3
72.5°	497.8	529.6	604.0	682.9	708.7
75°	402.2	434.0	508.4	588.8	614.6
77.5°	308.1	343.0	415.8	497.8	522.0
80°	223.1	256.5	324.8	405.2	432.5
82.5°	142.7	171.5	239.8	315.7	335.4
85°	72.8	100.2	147.2	186.7	189.7
87.5°	22.8	31.9	48.6	72.8	74.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588884

CATALOG NUMBER: 24CZSP-A-75VHE-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	15.96	17.62	16.32	17.93	18.25	16.79	18.45	17.15	18.76	19.08
	3H	17.71	19.22	18.09	19.54	19.90	18.90	20.41	19.28	20.74	21.10
	4H	18.33	19.75	18.73	20.10	20.47	19.79	21.21	20.19	21.56	21.94
	6H	18.74	20.06	19.15	20.43	20.82	20.57	21.89	20.98	22.26	22.65
	8H	18.85	20.11	19.27	20.50	20.90	20.89	22.15	21.32	22.54	22.94
	12H	18.90	20.11	19.33	20.49	20.92	21.10	22.31	21.53	22.70	23.12
4H	2H	16.73	18.15	17.13	18.50	18.87	17.37	18.80	17.77	19.14	19.52
	3H	18.70	19.90	19.11	20.30	20.70	19.73	20.93	20.14	21.32	21.72
	4H	19.44	20.53	19.87	20.94	21.38	20.78	21.87	21.21	22.28	22.71
	6H	19.97	20.92	20.42	21.36	21.82	21.73	22.69	22.19	23.13	23.58
	8H	20.12	21.01	20.58	21.45	21.91	22.13	23.02	22.59	23.46	23.93
	12H	20.20	21.00	20.68	21.48	21.95	22.41	23.21	22.89	23.69	24.15
8H	4H	19.90	20.79	20.36	21.23	21.70	21.07	21.96	21.53	22.40	22.87
	6H	20.56	21.31	21.05	21.79	22.27	22.18	22.93	22.67	23.41	23.89
	8H	20.77	21.44	21.28	21.95	22.43	22.69	23.36	23.20	23.87	24.35
	12H	20.91	21.50	21.42	21.99	22.55	23.08	23.67	23.58	24.16	24.72
12H	4H	19.99	20.79	20.47	21.27	21.74	21.09	21.90	21.57	22.37	22.84
	6H	20.69	21.36	21.20	21.87	22.35	22.23	22.90	22.74	23.40	23.89
	8H	20.97	21.56	21.48	22.05	22.61	22.81	23.40	23.31	23.89	24.45