

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: P1588860

Luminaire Tested: 24CZSP-A-75-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588860
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-75-L850-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 7500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

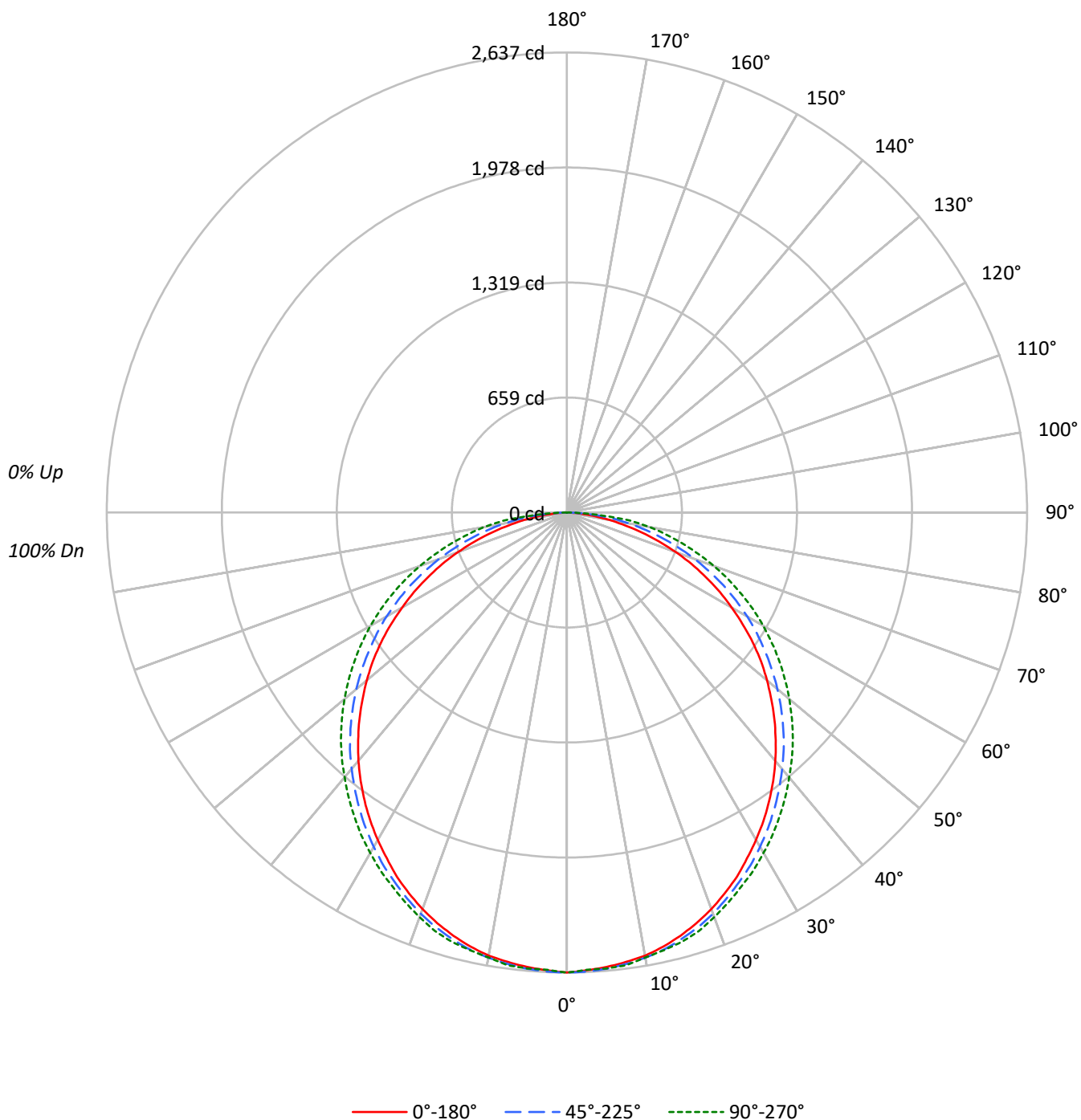
Lumens per Lamp: N/A
Luminaire Lumens: 7699.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1588860

CATALOG NUMBER: 24CZSP-A-75-L850-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°	4039	4039	4039
5°	4021	4036	4034
10°	4012	4030	4028
15°	3983	4016	4040
20°	3943	3990	4023
25°	3894	3948	3997
30°	3833	3914	3986
35°	3778	3876	3974
40°	3715	3837	3962
45°	3645	3798	3967
50°	3567	3752	3965
55°	3474	3699	3970
60°	3343	3659	3979
65°	3190	3588	3992
70°	2973	3488	4010
75°	2649	3349	4049
80°	2190	3189	4247
85°	1425	2880	3712

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4382 cd/sqm

TEST NUMBER: P1588860

CATALOG NUMBER: 24CZSP-A-75-L850-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.4	3.2
10°-20°	714.1	9.3
20°-30°	1077.0	14.0
30°-40°	1297.3	16.8
40°-50°	1354.8	17.6
50°-60°	1244.2	16.2
60°-70°	980.0	12.7
70°-80°	601.2	7.8
80°-90°	180.9	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°	2040.6	26.5
0°-40°	3337.8	43.4
0°-60°	5936.9	77.1
0°-90°	7699.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7699.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2637	2637	2637	2637	2637	
5°	2615	2618	2625	2634	2624	248
15°	2512	2517	2532	2548	2548	708
25°	2304	2309	2336	2365	2365	1061
35°	2020	2031	2073	2115	2125	1264
45°	1683	1701	1754	1814	1831	1297
55°	1301	1324	1385	1463	1487	1161
65°	880	911	990	1073	1102	871
75°	448	483	566	656	684	475
85°	81	112	164	208	211	106
90°	0	0	0	0	0	

TEST NUMBER: P1588860

CATALOG NUMBER: 24CZSP-A-75-L850-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2637.1	2637.1	2637.1	2637.1	2637.1
2.5°	2627.0	2632.0	2633.7	2635.4	2623.6
5°	2615.2	2618.5	2625.3	2633.7	2623.6
7.5°	2598.3	2601.6	2610.1	2621.9	2616.8
10°	2579.7	2581.4	2591.5	2599.9	2589.8
12.5°	2549.3	2554.3	2566.2	2572.9	2569.5
15°	2512.1	2517.2	2532.4	2547.6	2547.6
17.5°	2468.2	2474.9	2493.5	2513.8	2515.5
20°	2419.2	2424.3	2447.9	2468.2	2468.2
22.5°	2363.4	2370.2	2393.8	2415.8	2419.2
25°	2304.3	2309.4	2336.4	2365.1	2365.1
27.5°	2235.0	2245.2	2279.0	2307.7	2314.4
30°	2167.5	2175.9	2213.1	2248.6	2253.6
32.5°	2096.5	2106.6	2145.5	2184.4	2192.8
35°	2020.5	2030.6	2072.9	2115.1	2125.2
37.5°	1941.1	1952.9	1996.8	2045.8	2056.0
40°	1858.3	1871.8	1919.1	1971.5	1981.6
42.5°	1770.5	1789.0	1839.7	1893.8	1909.0
45°	1682.6	1701.2	1753.6	1814.4	1831.3
47.5°	1589.7	1611.7	1665.7	1729.9	1748.5
50°	1496.8	1518.7	1574.5	1643.8	1664.0
52.5°	1402.2	1424.1	1481.6	1554.2	1576.2
55°	1300.8	1324.5	1385.3	1463.0	1486.6
57.5°	1196.1	1226.5	1290.7	1370.1	1393.7
60°	1091.3	1121.7	1194.4	1272.1	1299.1
62.5°	988.3	1017.0	1091.3	1174.1	1202.8
65°	880.2	910.6	990.0	1072.8	1101.5
67.5°	773.7	804.1	883.5	969.7	1000.1
70°	663.9	697.7	778.8	865.0	895.4
72.5°	554.1	589.6	672.4	760.2	788.9
75°	447.7	483.2	565.9	655.5	684.2
77.5°	342.9	381.8	462.9	554.1	581.1
80°	248.3	285.5	361.5	451.1	481.5
82.5°	158.8	190.9	266.9	351.4	373.4
85°	81.1	111.5	163.9	207.8	211.2
87.5°	25.3	35.5	54.1	81.1	82.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588860

CATALOG NUMBER: 24CZSP-A-75-L850-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	16.33	17.99	16.69	18.30	18.62	17.16	18.82	17.52	19.14	19.45
	3H	18.08	19.59	18.46	19.92	20.28	19.28	20.78	19.65	21.11	21.47
	4H	18.70	20.12	19.10	20.47	20.85	20.16	21.59	20.56	21.93	22.31
	6H	19.11	20.43	19.52	20.80	21.19	20.95	22.27	21.36	22.63	23.02
	8H	19.22	20.48	19.64	20.87	21.27	21.27	22.53	21.69	22.92	23.31
	12H	19.27	20.48	19.70	20.86	21.29	21.48	22.69	21.91	23.07	23.50
4H	2H	17.10	18.52	17.50	18.87	19.24	17.75	19.17	18.14	19.52	19.89
	3H	19.08	20.28	19.49	20.67	21.07	20.10	21.30	20.51	21.70	22.10
	4H	19.81	20.90	20.24	21.31	21.75	21.15	22.24	21.58	22.65	23.09
	6H	20.34	21.29	20.80	21.73	22.19	22.11	23.06	22.56	23.50	23.95
	8H	20.49	21.38	20.95	21.82	22.29	22.50	23.40	22.96	23.84	24.30
	12H	20.57	21.38	21.05	21.85	22.32	22.78	23.58	23.26	24.06	24.53
8H	4H	20.27	21.17	20.73	21.61	22.07	21.44	22.33	21.90	22.78	23.24
	6H	20.93	21.68	21.43	22.16	22.64	22.55	23.30	23.05	23.79	24.26
	8H	21.15	21.81	21.65	22.32	22.80	23.07	23.73	23.57	24.24	24.72
	12H	21.28	21.88	21.79	22.37	22.92	23.45	24.04	23.96	24.53	25.09
12H	4H	20.36	21.17	20.84	21.64	22.11	21.47	22.27	21.95	22.74	23.21
	6H	21.07	21.74	21.57	22.24	22.73	22.60	23.27	23.11	23.78	24.26
	8H	21.34	21.94	21.85	22.43	22.98	23.18	23.77	23.69	24.26	24.82