

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: P1588861

Luminaire Tested: 24CZSP-A-75-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588861
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-L850
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 7500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

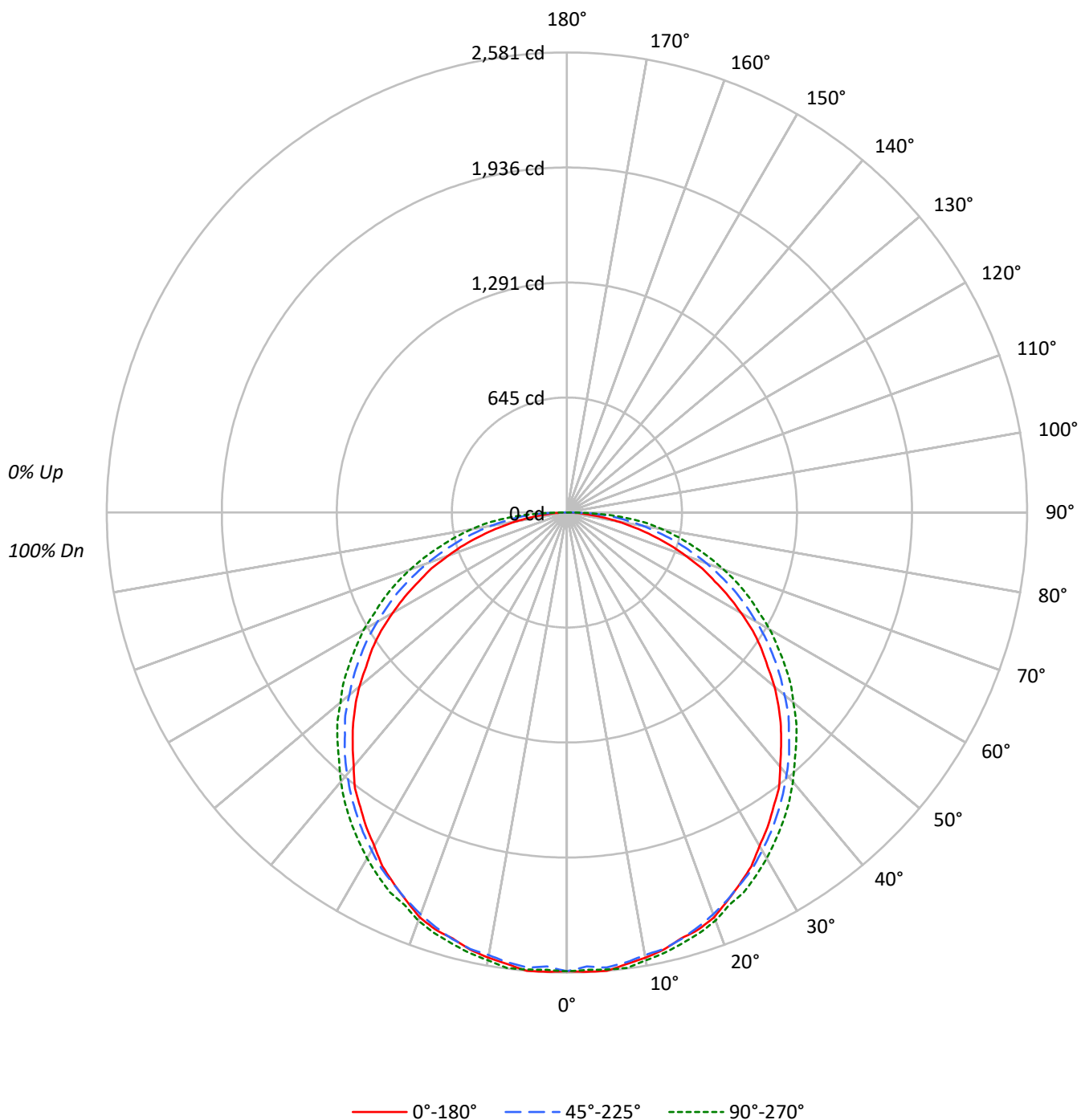
Lumens per Lamp: N/A
Luminaire Lumens: 7856.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1588861

CATALOG NUMBER: 24CZSP-A-75-L850

Luminous Intensity Polar Plot



TEST NUMBER: P1588861

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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	50	30	10
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°	3942	3942	3942
5°	3969	3940	3957
10°	3944	3921	3968
15°	3923	3929	3968
20°	3938	3910	3971
25°	3882	3889	3971
30°	3820	3873	3963
35°	3775	3852	3954
40°	3720	3833	3942
45°	3676	3814	3941
50°	3622	3797	3949
55°	3557	3783	3984
60°	3458	3758	4028
65°	3321	3757	4091
70°	3168	3733	4188
75°	2917	3741	4342
80°	2555	3817	4780
85°	1951	4397	5720

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 6341 cd/sqm

TEST NUMBER: P1588861

CATALOG NUMBER: 24CZSP-A-75-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.4	3.1
10°-20°	702.5	8.9
20°-30°	1067.1	13.6
30°-40°	1292.6	16.5
40°-50°	1359.9	17.3
50°-60°	1264.5	16.1
60°-70°	1018.1	13.0
70°-80°	659.5	8.4
80°-90°	247.3	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°	2014.0	25.6
0°-40°	3306.6	42.1
0°-60°	5931.0	75.5
0°-90°	7856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7856.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2574	2574	2574	2574	2574	
5°	2581	2578	2562	2578	2574	244
15°	2474	2484	2478	2508	2502	701
25°	2297	2295	2301	2340	2350	1059
35°	2019	2034	2060	2096	2115	1265
45°	1697	1720	1761	1799	1819	1308
55°	1332	1366	1417	1473	1492	1188
65°	916	958	1037	1099	1129	911
75°	493	542	632	706	734	524
85°	111	164	250	312	326	136
90°	0	0	0	0	0	

TEST NUMBER: P1588861

CATALOG NUMBER: 24CZSP-A-75-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2573.8	2573.8	2573.8	2573.8	2573.8
2.5°	2579.4	2579.4	2549.3	2581.3	2568.2
5°	2581.3	2577.6	2562.5	2577.6	2573.8
7.5°	2555.0	2558.8	2545.6	2564.4	2577.6
10°	2536.2	2539.9	2521.1	2551.2	2551.2
12.5°	2511.7	2515.5	2508.0	2536.2	2530.5
15°	2474.1	2483.5	2477.9	2508.0	2502.3
17.5°	2453.4	2445.9	2440.2	2462.8	2474.1
20°	2415.8	2398.8	2398.8	2428.9	2436.5
22.5°	2355.6	2349.9	2351.8	2389.4	2381.9
25°	2297.2	2295.4	2301.0	2340.5	2349.9
27.5°	2238.9	2235.1	2252.1	2289.7	2297.2
30°	2159.9	2167.4	2190.0	2231.4	2240.8
32.5°	2094.0	2107.2	2127.9	2167.4	2178.7
35°	2018.8	2033.8	2060.2	2095.9	2114.7
37.5°	1952.9	1962.3	1990.6	2024.4	2047.0
40°	1860.7	1885.2	1917.2	1966.1	1971.7
42.5°	1778.0	1802.4	1843.8	1896.5	1890.8
45°	1697.1	1719.6	1761.0	1798.7	1819.3
47.5°	1610.5	1631.2	1685.8	1730.9	1746.0
50°	1520.2	1546.5	1593.6	1640.6	1657.5
52.5°	1418.6	1446.8	1507.0	1557.8	1582.3
55°	1332.1	1365.9	1416.7	1473.2	1492.0
57.5°	1236.1	1264.3	1326.4	1382.9	1401.7
60°	1128.9	1162.7	1226.7	1286.9	1315.1
62.5°	1025.4	1063.0	1130.7	1192.8	1215.4
65°	916.3	957.7	1036.7	1098.8	1128.9
67.5°	822.2	856.1	933.2	1002.8	1034.8
70°	707.4	752.6	833.5	910.6	935.1
72.5°	605.8	645.3	730.0	807.1	837.2
75°	492.9	541.9	632.2	705.5	733.8
77.5°	389.5	440.3	530.6	607.7	639.7
80°	289.7	338.7	432.7	511.8	541.9
82.5°	195.7	244.6	338.7	415.8	449.7
85°	111.0	163.7	250.2	312.3	325.5
87.5°	48.9	94.1	141.1	169.3	180.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588861

CATALOG NUMBER: 24CZSP-A-75-L850

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	16.45	18.13	16.81	18.45	18.76	17.13	18.81	17.49	19.12	19.43
	3H	18.30	19.83	18.68	20.16	20.52	19.34	20.87	19.72	21.20	21.56
	4H	18.99	20.43	19.39	20.78	21.16	20.31	21.75	20.70	22.10	22.47
	6H	19.48	20.83	19.89	21.19	21.58	21.20	22.54	21.61	22.90	23.29
	8H	19.63	20.91	20.05	21.30	21.70	21.60	22.89	22.02	23.27	23.67
	12H	19.72	20.95	20.15	21.33	21.76	21.96	23.19	22.39	23.57	24.00
4H	2H	17.24	18.69	17.64	19.03	19.41	17.76	19.21	18.16	19.55	19.93
	3H	19.33	20.55	19.74	20.95	21.35	20.22	21.44	20.63	21.84	22.24
	4H	20.15	21.26	20.58	21.67	22.11	21.35	22.46	21.78	22.87	23.31
	6H	20.78	21.75	21.23	22.19	22.64	22.42	23.40	22.87	23.84	24.29
	8H	20.97	21.89	21.43	22.33	22.79	22.91	23.83	23.37	24.27	24.73
	12H	21.11	21.93	21.59	22.41	22.88	23.36	24.19	23.84	24.66	25.13
8H	4H	20.66	21.57	21.12	22.02	22.48	21.69	22.61	22.15	23.05	23.51
	6H	21.44	22.21	21.94	22.70	23.17	22.94	23.71	23.44	24.20	24.67
	8H	21.73	22.42	22.23	22.92	23.41	23.57	24.26	24.07	24.76	25.25
	12H	21.95	22.56	22.45	23.05	23.60	24.18	24.79	24.68	25.28	25.84
12H	4H	20.77	21.59	21.25	22.07	22.53	21.73	22.56	22.21	23.03	23.50
	6H	21.61	22.30	22.12	22.81	23.29	23.02	23.71	23.52	24.21	24.70
	8H	21.98	22.59	22.49	23.08	23.64	23.72	24.34	24.23	24.83	25.38