

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: P1588340

Luminaire Tested: 24CZSP-52-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588340
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-52-L850-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

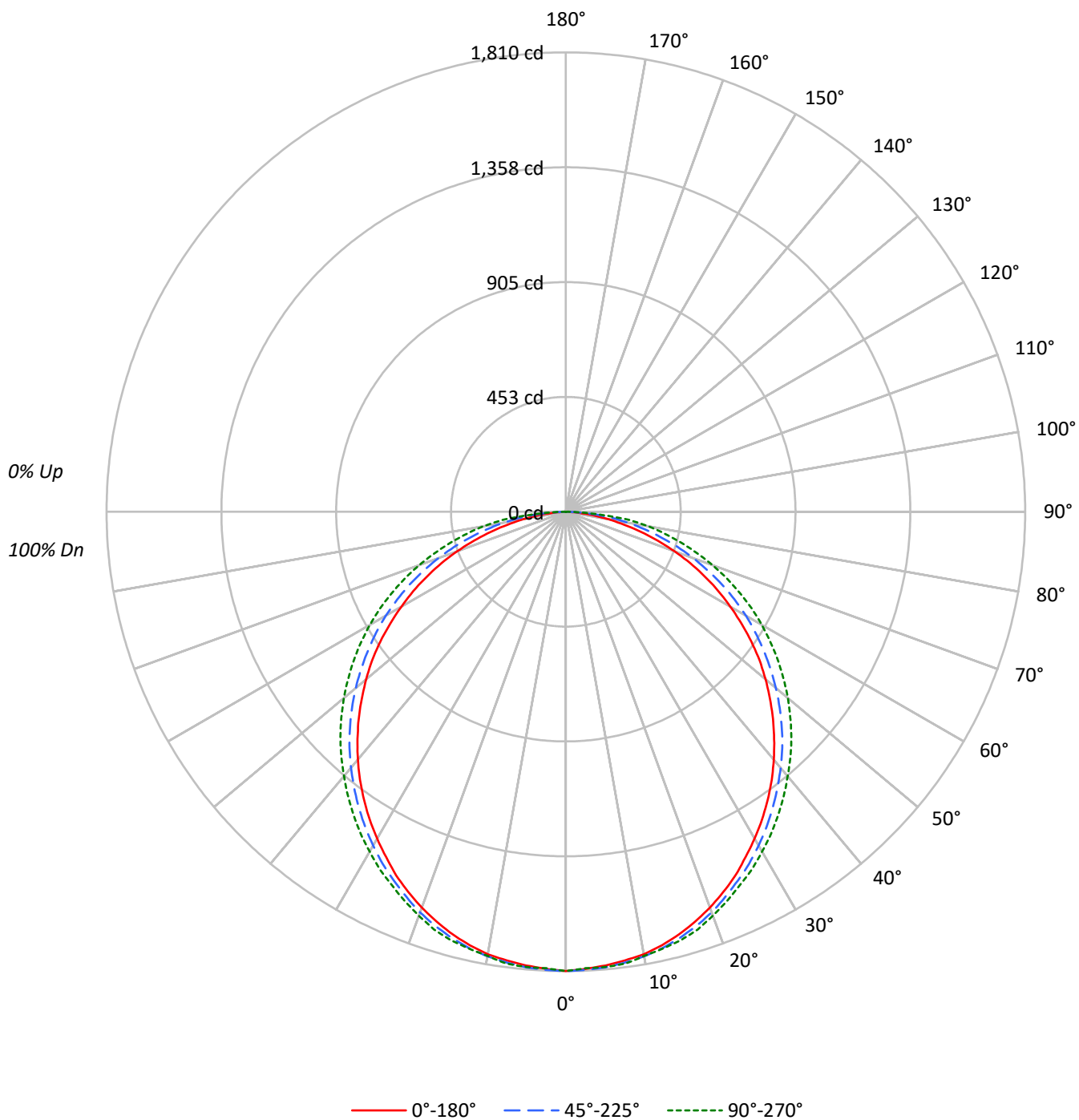
Lumens per Lamp: N/A
Luminaire Lumens: 5283.0 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.7
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

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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°	2772	2772	2772
5°	2759	2770	2768
10°	2753	2766	2764
15°	2733	2755	2772
20°	2706	2738	2760
25°	2672	2709	2743
30°	2630	2686	2735
35°	2592	2660	2727
40°	2550	2633	2719
45°	2501	2606	2722
50°	2447	2574	2721
55°	2384	2538	2724
60°	2294	2511	2731
65°	2189	2462	2739
70°	2040	2393	2751
75°	1818	2298	2778
80°	1503	2188	2914
85°	977	1975	2546

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3006 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.1	3.2
10°-20°	490.0	9.3
20°-30°	739.0	14.0
30°-40°	890.2	16.8
40°-50°	929.7	17.6
50°-60°	853.8	16.2
60°-70°	672.5	12.7
70°-80°	412.5	7.8
80°-90°	124.1	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°	1400.2	26.5
0°-40°	2290.4	43.4
0°-60°	4073.8	77.1
0°-90°	5283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5283.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1810	1810	1810	1810	1810	
5°	1794	1797	1802	1807	1800	171
15°	1724	1727	1738	1748	1748	486
25°	1581	1585	1603	1623	1623	728
35°	1386	1393	1422	1451	1458	867
45°	1155	1167	1203	1245	1257	890
55°	893	909	951	1004	1020	797
65°	604	625	679	736	756	598
75°	307	332	388	450	470	326
85°	56	76	112	143	145	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1809.6	1809.6	1809.6	1809.6	1809.6
2.5°	1802.6	1806.1	1807.3	1808.4	1800.3
5°	1794.5	1796.8	1801.5	1807.3	1800.3
7.5°	1782.9	1785.2	1791.0	1799.1	1795.7
10°	1770.2	1771.3	1778.3	1784.1	1777.1
12.5°	1749.3	1752.8	1760.9	1765.5	1763.2
15°	1723.8	1727.3	1737.7	1748.1	1748.1
17.5°	1693.6	1698.3	1711.0	1724.9	1726.1
20°	1660.0	1663.5	1679.7	1693.6	1693.6
22.5°	1621.8	1626.4	1642.6	1657.7	1660.0
25°	1581.2	1584.7	1603.2	1622.9	1622.9
27.5°	1533.7	1540.6	1563.8	1583.5	1588.2
30°	1487.3	1493.1	1518.6	1542.9	1546.4
32.5°	1438.6	1445.6	1472.2	1498.9	1504.7
35°	1386.4	1393.4	1422.4	1451.4	1458.3
37.5°	1332.0	1340.1	1370.2	1403.8	1410.8
40°	1275.2	1284.4	1316.9	1352.8	1359.8
42.5°	1214.9	1227.6	1262.4	1299.5	1309.9
45°	1154.6	1167.4	1203.3	1245.0	1256.6
47.5°	1090.8	1105.9	1143.0	1187.1	1199.8
50°	1027.1	1042.2	1080.4	1127.9	1141.8
52.5°	962.2	977.2	1016.7	1066.5	1081.6
55°	892.6	908.8	950.6	1003.9	1020.1
57.5°	820.7	841.6	885.7	940.1	956.4
60°	748.9	769.7	819.6	872.9	891.5
62.5°	678.2	697.9	748.9	805.7	825.4
65°	604.0	624.8	679.3	736.1	755.8
67.5°	530.9	551.8	606.3	665.4	686.3
70°	455.6	478.8	534.4	593.5	614.4
72.5°	380.2	404.6	461.4	521.7	541.4
75°	307.2	331.5	388.3	449.8	469.5
77.5°	235.3	262.0	317.6	380.2	398.8
80°	170.4	195.9	248.1	309.5	330.4
82.5°	109.0	131.0	183.2	241.1	256.2
85°	55.6	76.5	112.4	142.6	144.9
87.5°	17.4	24.3	37.1	55.6	56.8
90°	0.0	0.0	0.0	0.0	0.0

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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	15.02	16.68	15.38	17.00	17.31	15.85	17.51	16.21	17.83	18.14
	3H	16.78	18.28	17.15	18.61	18.97	17.97	19.47	18.34	19.80	20.16
	4H	17.39	18.82	17.79	19.16	19.54	18.86	20.28	19.25	20.62	21.00
	6H	17.80	19.13	18.22	19.49	19.88	19.64	20.96	20.05	21.32	21.71
	8H	17.91	19.18	18.34	19.56	19.96	19.96	21.22	20.38	21.61	22.01
	12H	17.96	19.17	18.39	19.56	19.98	20.17	21.38	20.60	21.76	22.19
4H	2H	15.79	17.21	16.19	17.56	17.94	16.44	17.86	16.84	18.21	18.58
	3H	17.77	18.97	18.18	19.36	19.76	18.79	19.99	19.20	20.39	20.79
	4H	18.51	19.59	18.94	20.00	20.44	19.84	20.93	20.28	21.34	21.78
	6H	19.03	19.99	19.49	20.43	20.88	20.80	21.75	21.25	22.19	22.64
	8H	19.18	20.07	19.64	20.51	20.98	21.19	22.09	21.65	22.53	22.99
	12H	19.26	20.07	19.74	20.54	21.01	21.47	22.28	21.95	22.75	23.22
8H	4H	18.96	19.86	19.42	20.30	20.76	20.13	21.03	20.59	21.47	21.93
	6H	19.63	20.37	20.12	20.86	21.33	21.25	21.99	21.74	22.48	22.95
	8H	19.84	20.51	20.34	21.01	21.49	21.76	22.43	22.26	22.93	23.42
	12H	19.98	20.57	20.48	21.06	21.62	22.14	22.74	22.65	23.22	23.78
12H	4H	19.05	19.86	19.53	20.33	20.80	20.16	20.96	20.64	21.44	21.90
	6H	19.76	20.43	20.26	20.93	21.42	21.29	21.96	21.80	22.47	22.95
	8H	20.04	20.63	20.54	21.12	21.68	21.87	22.46	22.38	22.95	23.51