

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: P1587760

Luminaire Tested: 22CZSP-SB-52-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-52-L850-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

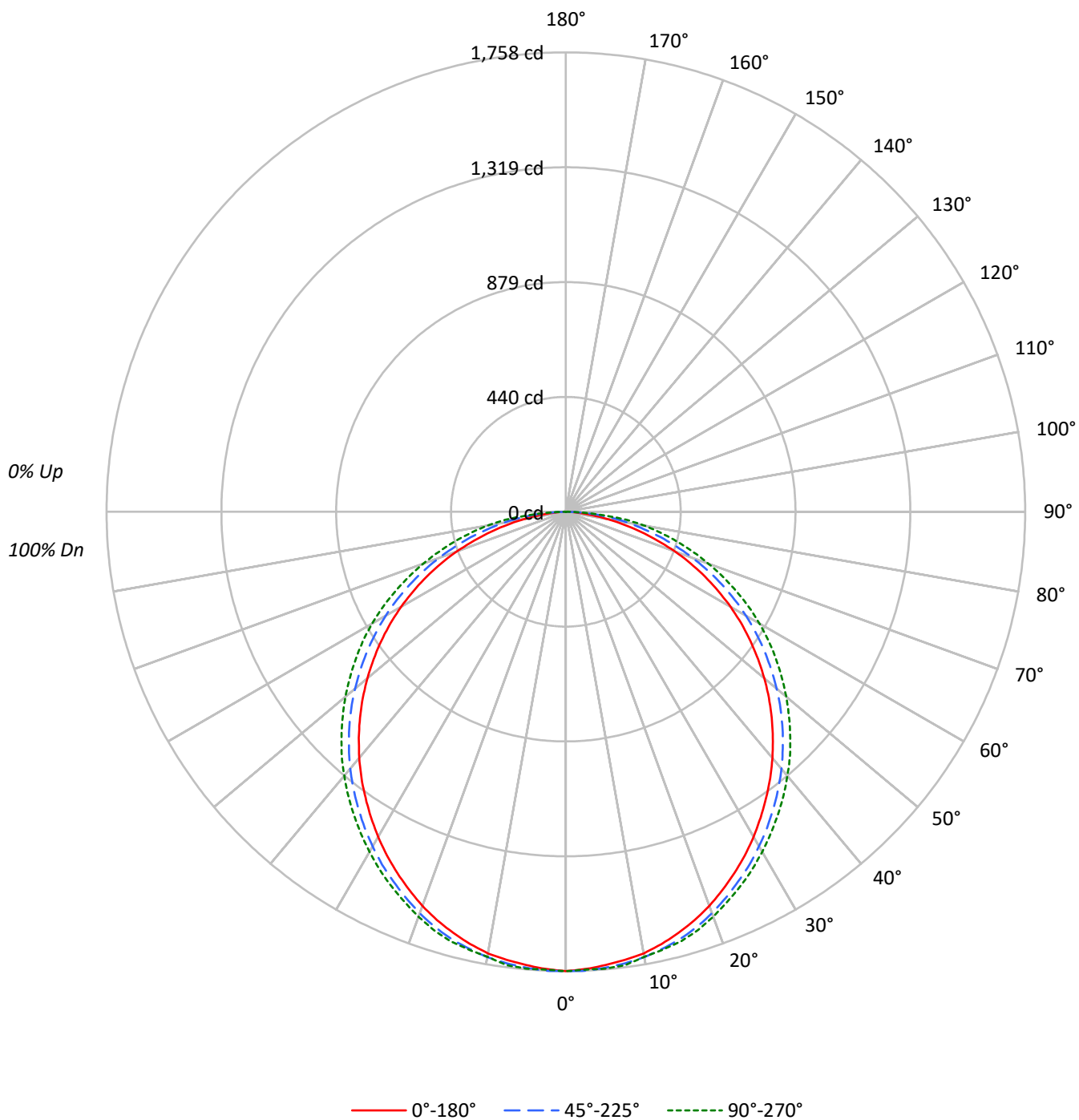
Lumens per Lamp: N/A
Luminaire Lumens: 5114.0 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.2
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	94	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	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5505	5505	5505
5°	5474	5505	5516
10°	5457	5502	5499
15°	5407	5485	5517
20°	5349	5448	5495
25°	5272	5394	5462
30°	5195	5346	5434
35°	5110	5295	5408
40°	5028	5248	5392
45°	4935	5193	5378
50°	4829	5129	5364
55°	4709	5063	5357
60°	4561	4988	5360
65°	4353	4883	5331
70°	4070	4734	5318
75°	3607	4551	5338
80°	2936	4324	5495
85°	1897	3992	4742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5568 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	3.3
10°-20°	476.4	9.3
20°-30°	718.3	14.0
30°-40°	864.3	16.9
40°-50°	901.5	17.6
50°-60°	826.4	16.2
60°-70°	648.9	12.7
70°-80°	394.9	7.7
80°-90°	116.8	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°	1361.1	26.6
0°-40°	2225.4	43.5
0°-60°	3953.3	77.3
0°-90°	5114.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5114.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1758	1758	1758	1758	1758	
5°	1742	1752	1751	1749	1755	165
15°	1668	1684	1692	1694	1702	471
25°	1526	1547	1561	1571	1581	703
35°	1337	1358	1385	1405	1415	837
45°	1114	1138	1173	1200	1214	859
55°	862	884	927	965	981	771
65°	588	610	659	703	720	581
75°	298	326	376	421	441	316
85°	53	75	111	124	132	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1758.0	1758.0	1758.0	1758.0	1758.0
2.5°	1751.4	1760.2	1758.0	1750.3	1753.6
5°	1741.5	1752.5	1751.4	1749.2	1754.7
7.5°	1729.4	1741.5	1742.6	1742.6	1749.2
10°	1716.2	1728.3	1730.5	1727.2	1729.4
12.5°	1694.2	1708.5	1712.9	1712.9	1716.2
15°	1667.8	1684.3	1692.0	1694.2	1701.9
17.5°	1639.2	1656.8	1666.7	1672.2	1678.8
20°	1605.1	1623.8	1634.8	1641.4	1649.1
22.5°	1566.6	1587.5	1599.6	1606.2	1615.0
25°	1525.9	1546.8	1561.1	1571.0	1580.9
27.5°	1483.0	1502.8	1522.6	1534.7	1543.5
30°	1436.8	1457.7	1478.6	1494.0	1502.8
32.5°	1387.3	1409.3	1433.5	1450.0	1459.9
35°	1336.7	1357.6	1385.1	1404.9	1414.8
37.5°	1285.0	1307.0	1335.6	1356.5	1368.6
40°	1230.0	1253.1	1283.9	1307.0	1319.1
42.5°	1172.7	1194.7	1228.9	1255.3	1269.6
45°	1114.4	1137.5	1172.7	1200.2	1214.5
47.5°	1053.9	1075.9	1114.4	1146.3	1158.4
50°	991.2	1012.1	1052.8	1086.9	1101.2
52.5°	927.4	949.4	990.1	1026.4	1041.8
55°	862.5	884.5	927.4	964.8	981.3
57.5°	796.5	818.5	862.5	901.0	920.8
60°	728.3	750.3	796.5	836.1	855.9
62.5°	657.9	681.0	728.3	769.0	789.9
65°	587.5	609.5	659.0	703.0	719.5
67.5°	517.1	539.1	587.5	631.5	651.3
70°	444.5	469.8	517.1	563.3	580.9
72.5°	368.5	397.1	444.5	492.9	510.5
75°	298.1	325.6	376.2	421.4	441.2
77.5°	228.8	258.5	305.8	352.0	371.8
80°	162.8	191.4	239.8	283.8	304.7
82.5°	103.4	128.7	177.1	216.7	232.1
85°	52.8	74.8	111.1	124.3	132.0
87.5°	15.4	26.4	39.6	49.5	55.0
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	17.43	19.09	17.79	19.40	19.71	18.16	19.82	18.53	20.13	20.45
	3H	19.19	20.70	19.57	21.03	21.38	20.24	21.74	20.62	22.07	22.43
	4H	19.81	21.23	20.21	21.58	21.96	21.11	22.53	21.50	22.87	23.25
	6H	20.22	21.54	20.63	21.90	22.29	21.85	23.17	22.26	23.53	23.92
	8H	20.32	21.58	20.75	21.97	22.37	22.14	23.40	22.57	23.79	24.19
	12H	20.37	21.58	20.80	21.96	22.39	22.34	23.55	22.77	23.93	24.36
4H	2H	18.19	19.61	18.59	19.96	20.34	18.77	20.18	19.16	20.53	20.91
	3H	20.19	21.38	20.59	21.78	22.18	21.08	22.27	21.49	22.67	23.07
	4H	20.93	22.01	21.36	22.42	22.86	22.10	23.18	22.53	23.59	24.03
	6H	21.46	22.41	21.91	22.85	23.30	23.00	23.95	23.45	24.39	24.85
	8H	21.60	22.49	22.06	22.93	23.39	23.37	24.26	23.83	24.70	25.16
	12H	21.68	22.48	22.16	22.95	23.42	23.62	24.42	24.10	24.90	25.37
8H	4H	21.37	22.26	21.83	22.70	23.17	22.39	23.28	22.85	23.73	24.19
	6H	22.04	22.78	22.53	23.26	23.74	23.45	24.19	23.94	24.68	25.15
	8H	22.25	22.91	22.75	23.42	23.90	23.92	24.59	24.43	25.09	25.58
	12H	22.38	22.97	22.89	23.46	24.02	24.28	24.86	24.78	25.35	25.91
12H	4H	21.45	22.25	21.93	22.73	23.20	22.42	23.22	22.90	23.70	24.16
	6H	22.16	22.83	22.67	23.33	23.82	23.50	24.17	24.01	24.67	25.16
	8H	22.44	23.03	22.94	23.52	24.08	24.04	24.63	24.55	25.12	25.68