

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: P1587720

Luminaire Tested: 22CZSP-SB-47-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587720
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-47-L850-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

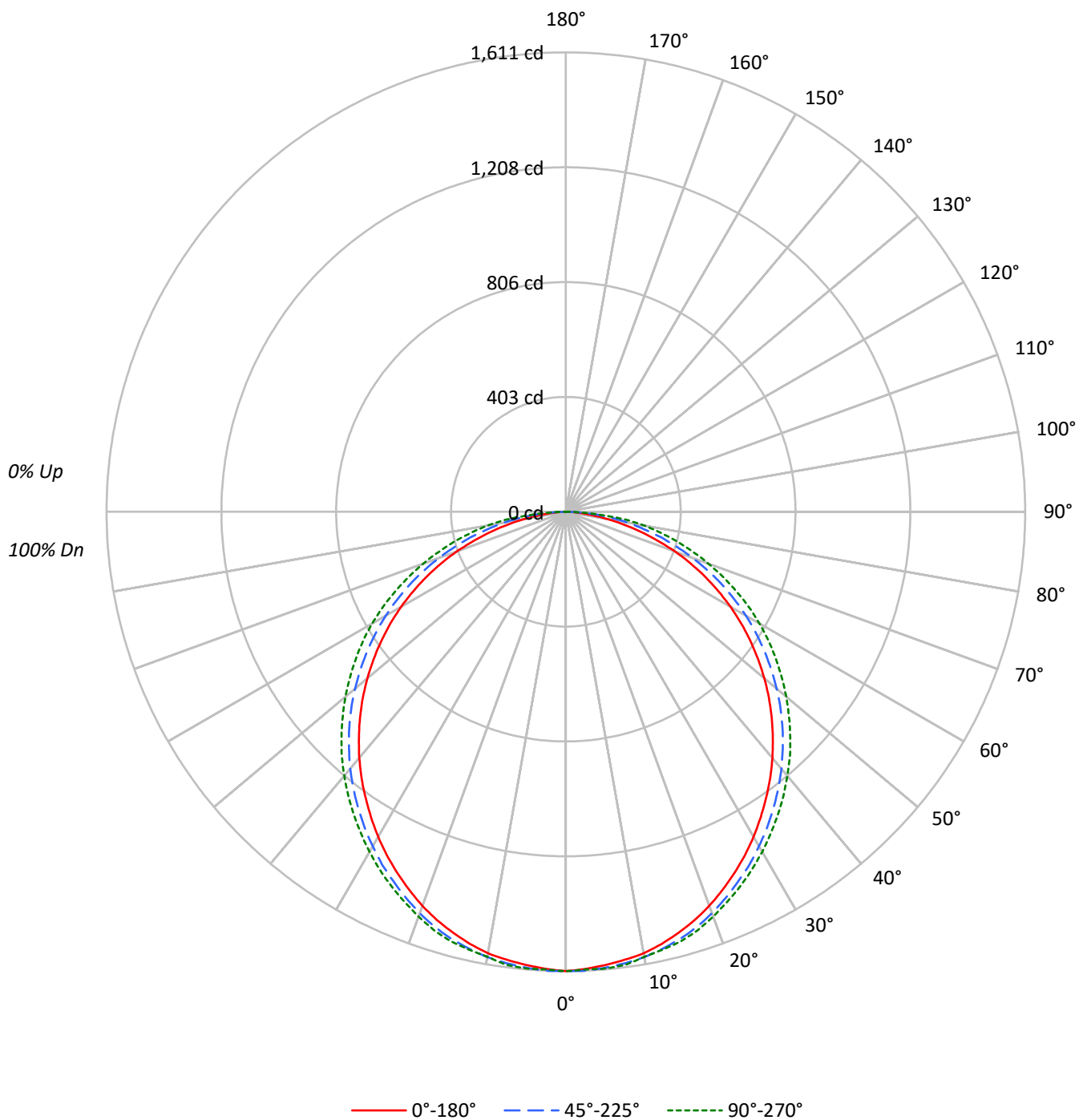
Lumens per Lamp: N/A
Luminaire Lumens: 4686.0 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 33.1
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°	5044	5044	5044
5°	5016	5044	5054
10°	5000	5042	5039
15°	4954	5026	5056
20°	4901	4992	5035
25°	4831	4942	5005
30°	4760	4899	4979
35°	4682	4852	4956
40°	4607	4809	4941
45°	4522	4759	4928
50°	4425	4700	4916
55°	4314	4639	4909
60°	4179	4570	4912
65°	3988	4474	4885
70°	3729	4338	4873
75°	3305	4172	4890
80°	2690	3964	5035
85°	1739	3657	4347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5103 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.4	3.3
10°-20°	436.5	9.3
20°-30°	658.2	14.0
30°-40°	792.0	16.9
40°-50°	826.1	17.6
50°-60°	757.2	16.2
60°-70°	594.6	12.7
70°-80°	361.9	7.7
80°-90°	107.1	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°	1247.2	26.6
0°-40°	2039.1	43.5
0°-60°	3622.5	77.3
0°-90°	4686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1611	1611	1611	1611	1611	
5°	1596	1606	1605	1603	1608	152
15°	1528	1543	1550	1552	1560	431
25°	1398	1417	1430	1440	1449	644
35°	1225	1244	1269	1287	1296	766
45°	1021	1042	1075	1100	1113	787
55°	790	810	850	884	899	706
65°	538	558	604	644	659	532
75°	273	298	345	386	404	290
85°	48	68	102	114	121	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1610.9	1610.9	1610.9	1610.9	1610.9
2.5°	1604.8	1612.9	1610.9	1603.8	1606.9
5°	1595.8	1605.8	1604.8	1602.8	1607.9
7.5°	1584.7	1595.8	1596.8	1596.8	1602.8
10°	1572.6	1583.7	1585.7	1582.7	1584.7
12.5°	1552.4	1565.5	1569.6	1569.6	1572.6
15°	1528.2	1543.3	1550.4	1552.4	1559.5
17.5°	1502.0	1518.1	1527.2	1532.3	1538.3
20°	1470.8	1487.9	1498.0	1504.0	1511.1
22.5°	1435.5	1454.6	1465.7	1471.8	1479.8
25°	1398.2	1417.3	1430.4	1439.5	1448.6
27.5°	1358.9	1377.0	1395.2	1406.2	1414.3
30°	1316.5	1335.7	1354.8	1368.9	1377.0
32.5°	1271.2	1291.3	1313.5	1328.6	1337.7
35°	1224.8	1243.9	1269.2	1287.3	1296.4
37.5°	1177.4	1197.6	1223.8	1242.9	1254.0
40°	1127.0	1148.2	1176.4	1197.6	1208.7
42.5°	1074.6	1094.8	1126.0	1150.2	1163.3
45°	1021.2	1042.3	1074.6	1099.8	1112.9
47.5°	965.7	985.9	1021.2	1050.4	1061.5
50°	908.3	927.4	964.7	996.0	1009.1
52.5°	849.8	870.0	907.3	940.5	954.6
55°	790.3	810.5	849.8	884.1	899.2
57.5°	729.8	750.0	790.3	825.6	843.7
60°	667.3	687.5	729.8	766.1	784.3
62.5°	602.8	624.0	667.3	704.6	723.8
65°	538.3	558.5	603.8	644.2	659.3
67.5°	473.8	494.0	538.3	578.6	596.8
70°	407.3	430.4	473.8	516.1	532.3
72.5°	337.7	363.9	407.3	451.6	467.7
75°	273.2	298.4	344.8	386.1	404.2
77.5°	209.7	236.9	280.2	322.6	340.7
80°	149.2	175.4	219.8	260.1	279.2
82.5°	94.8	117.9	162.3	198.6	212.7
85°	48.4	68.5	101.8	113.9	121.0
87.5°	14.1	24.2	36.3	45.4	50.4
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	17.12	18.78	17.49	19.10	19.41	17.86	19.52	18.22	19.83	20.15
	3H	18.89	20.40	19.27	20.72	21.08	19.94	21.44	20.31	21.77	22.13
	4H	19.51	20.93	19.91	21.28	21.65	20.80	22.22	21.20	22.57	22.94
	6H	19.92	21.24	20.33	21.60	21.99	21.55	22.86	21.96	23.23	23.62
	8H	20.02	21.28	20.45	21.67	22.07	21.84	23.10	22.26	23.49	23.89
	12H	20.07	21.28	20.50	21.66	22.09	22.03	23.24	22.46	23.62	24.05
4H	2H	17.89	19.31	18.29	19.66	20.03	18.46	19.88	18.86	20.23	20.60
	3H	19.88	21.08	20.29	21.47	21.87	20.77	21.97	21.18	22.37	22.77
	4H	20.62	21.71	21.05	22.12	22.55	21.79	22.88	22.22	23.29	23.72
	6H	21.15	22.10	21.61	22.54	23.00	22.70	23.65	23.15	24.09	24.54
	8H	21.29	22.18	21.75	22.63	23.09	23.07	23.95	23.52	24.40	24.86
	12H	21.38	22.18	21.85	22.65	23.12	23.32	24.12	23.80	24.59	25.06
8H	4H	21.07	21.96	21.53	22.40	22.86	22.09	22.98	22.55	23.42	23.89
	6H	21.73	22.47	22.22	22.96	23.44	23.15	23.89	23.64	24.38	24.85
	8H	21.94	22.61	22.45	23.11	23.60	23.62	24.29	24.13	24.79	25.28
	12H	22.08	22.67	22.58	23.16	23.72	23.97	24.56	24.48	25.05	25.61
12H	4H	21.15	21.95	21.63	22.43	22.89	22.12	22.92	22.60	23.39	23.86
	6H	21.86	22.52	22.36	23.03	23.51	23.20	23.87	23.71	24.37	24.86
	8H	22.13	22.72	22.64	23.21	23.77	23.74	24.33	24.24	24.82	25.37