

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: P1587723

Luminaire Tested: 22CZSP-SB-47-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-47-L930
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

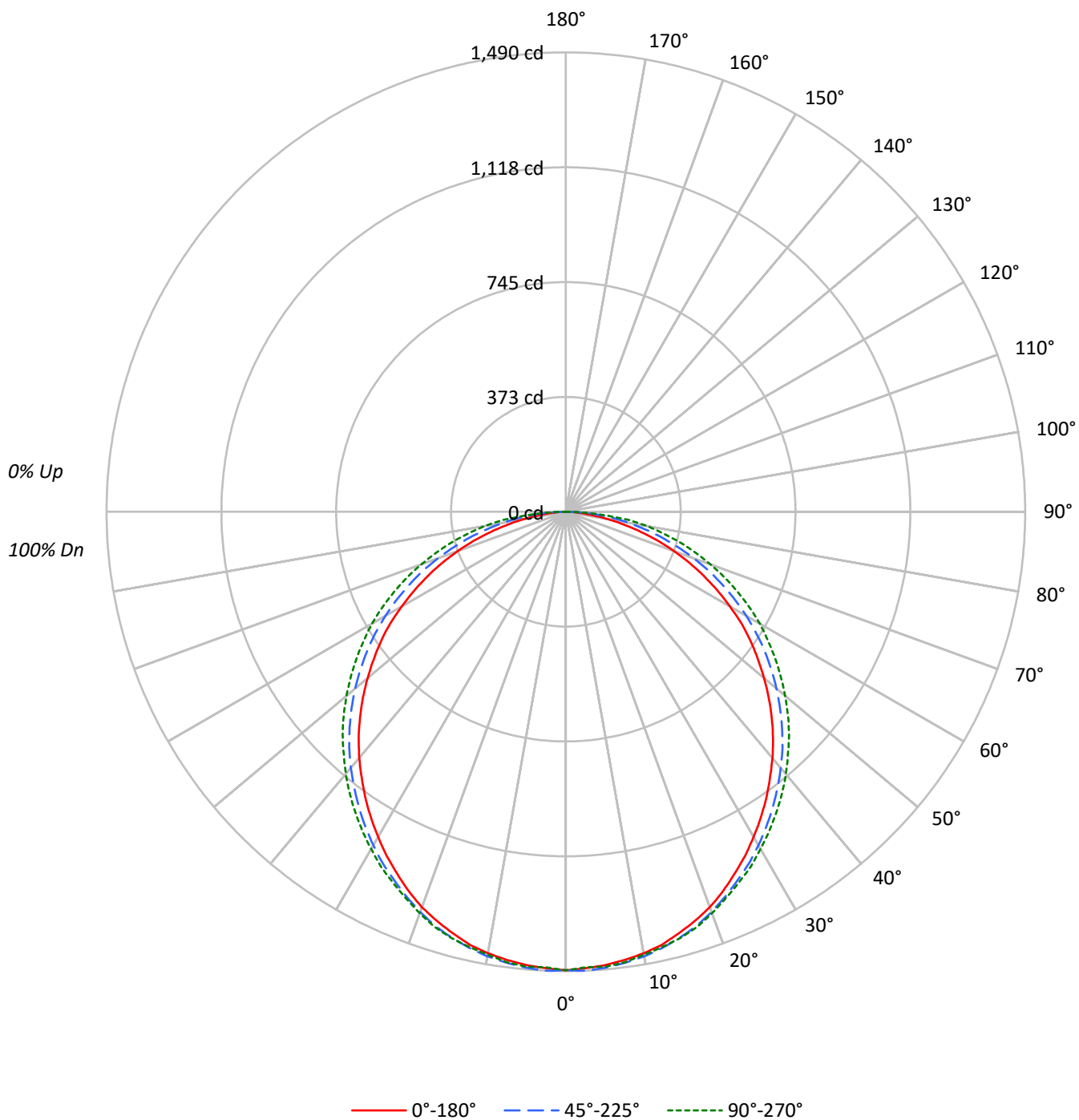
Lumens per Lamp: N/A
Luminaire Lumens: 4340.0 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	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	68
3	89	79	70	63	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°	4657	4657	4657
5°	4640	4666	4654
10°	4624	4656	4638
15°	4589	4636	4642
20°	4549	4604	4619
25°	4475	4554	4586
30°	4404	4517	4567
35°	4333	4473	4551
40°	4262	4434	4539
45°	4182	4393	4536
50°	4090	4345	4524
55°	3997	4298	4523
60°	3848	4234	4550
65°	3668	4151	4553
70°	3423	4037	4567
75°	3045	3890	4646
80°	2501	3727	4820
85°	1649	3499	4354

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4937 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	3.2
10°-20°	402.7	9.3
20°-30°	606.9	14.0
30°-40°	730.9	16.8
40°-50°	763.6	17.6
50°-60°	701.5	16.2
60°-70°	552.4	12.7
70°-80°	338.7	7.8
80°-90°	102.7	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°	1150.2	26.5
0°-40°	1881.1	43.3
0°-60°	3346.2	77.1
0°-90°	4340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4340.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1487	1487	1487	1487	1487	
5°	1476	1479	1484	1483	1481	140
15°	1416	1421	1430	1436	1432	399
25°	1295	1303	1318	1332	1327	597
35°	1134	1148	1170	1191	1190	709
45°	944	964	992	1020	1024	728
55°	732	753	787	821	828	653
65°	495	521	560	598	614	489
75°	252	281	322	360	384	268
85°	46	68	97	108	121	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1487.1	1487.1	1487.1	1487.1	1487.1
2.5°	1481.6	1485.3	1489.9	1482.6	1478.9
5°	1476.1	1478.9	1484.4	1482.6	1480.7
7.5°	1466.0	1467.9	1475.2	1475.2	1473.4
10°	1454.1	1457.8	1464.2	1463.3	1458.7
12.5°	1438.5	1441.2	1448.6	1448.6	1445.8
15°	1415.5	1421.0	1430.2	1435.7	1432.0
17.5°	1391.6	1397.1	1409.1	1414.6	1412.7
20°	1365.0	1369.6	1381.5	1389.8	1386.1
22.5°	1331.9	1337.4	1351.2	1360.4	1356.7
25°	1295.2	1303.4	1318.1	1331.9	1327.3
27.5°	1258.4	1267.6	1286.0	1299.8	1297.9
30°	1218.0	1229.9	1249.2	1266.7	1263.0
32.5°	1176.7	1190.5	1210.7	1229.0	1228.1
35°	1133.5	1148.2	1170.2	1191.4	1190.5
37.5°	1087.6	1105.0	1128.0	1151.0	1151.9
40°	1042.6	1059.1	1084.8	1109.6	1110.5
42.5°	994.8	1012.3	1039.8	1065.5	1066.4
45°	944.3	964.5	992.0	1019.6	1024.2
47.5°	892.8	914.0	942.4	971.8	977.3
50°	839.6	861.6	891.9	923.2	928.7
52.5°	785.4	808.3	839.6	870.8	879.1
55°	732.1	753.2	787.2	821.2	828.5
57.5°	676.1	695.3	732.1	767.9	777.1
60°	614.5	638.4	676.1	711.9	726.6
62.5°	554.8	580.5	619.1	654.9	671.5
65°	495.1	520.8	560.3	598.0	614.5
67.5°	434.5	461.1	503.4	539.2	557.6
70°	373.9	400.5	440.9	479.5	498.8
72.5°	313.2	341.7	381.2	420.7	440.0
75°	251.7	281.1	321.5	360.1	384.0
77.5°	193.8	222.3	262.7	302.2	322.4
80°	138.7	167.2	206.7	246.2	267.3
82.5°	88.2	114.8	153.4	186.5	205.8
85°	45.9	68.0	97.4	108.4	121.2
87.5°	13.8	26.6	37.7	42.3	52.4
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	16.86	18.52	17.22	18.83	19.15	17.60	19.27	17.97	19.58	19.90
	3H	18.62	20.13	19.00	20.45	20.81	19.70	21.21	20.08	21.53	21.89
	4H	19.25	20.67	19.64	21.01	21.39	20.58	22.01	20.98	22.35	22.73
	6H	19.66	20.98	20.07	21.34	21.73	21.35	22.67	21.76	23.04	23.43
	8H	19.76	21.03	20.19	21.42	21.81	21.66	22.93	22.09	23.31	23.71
	12H	19.82	21.03	20.24	21.41	21.84	21.88	23.09	22.30	23.47	23.90
4H	2H	17.63	19.05	18.03	19.40	19.77	18.21	19.63	18.61	19.98	20.35
	3H	19.62	20.82	20.03	21.22	21.62	20.54	21.73	20.95	22.13	22.53
	4H	20.38	21.46	20.81	21.87	22.31	21.57	22.66	22.00	23.07	23.50
	6H	20.91	21.86	21.36	22.30	22.76	22.50	23.45	22.95	23.89	24.35
	8H	21.06	21.95	21.52	22.39	22.86	22.89	23.78	23.34	24.22	24.68
	12H	21.15	21.95	21.62	22.42	22.89	23.16	23.97	23.64	24.44	24.91
8H	4H	20.83	21.72	21.29	22.16	22.63	21.87	22.76	22.33	23.20	23.67
	6H	21.51	22.25	22.00	22.74	23.21	22.96	23.70	23.45	24.19	24.66
	8H	21.73	22.39	22.23	22.90	23.38	23.44	24.11	23.95	24.62	25.10
	12H	21.87	22.47	22.38	22.95	23.51	23.82	24.41	24.32	24.90	25.46
12H	4H	20.91	21.72	21.39	22.19	22.66	21.90	22.70	22.38	23.18	23.65
	6H	21.63	22.30	22.14	22.81	23.29	23.01	23.68	23.51	24.18	24.67
	8H	21.92	22.52	22.43	23.01	23.56	23.56	24.15	24.07	24.64	25.20