

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: P1587722

Luminaire Tested: 22CZSP-SB-47-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587722
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-L930-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

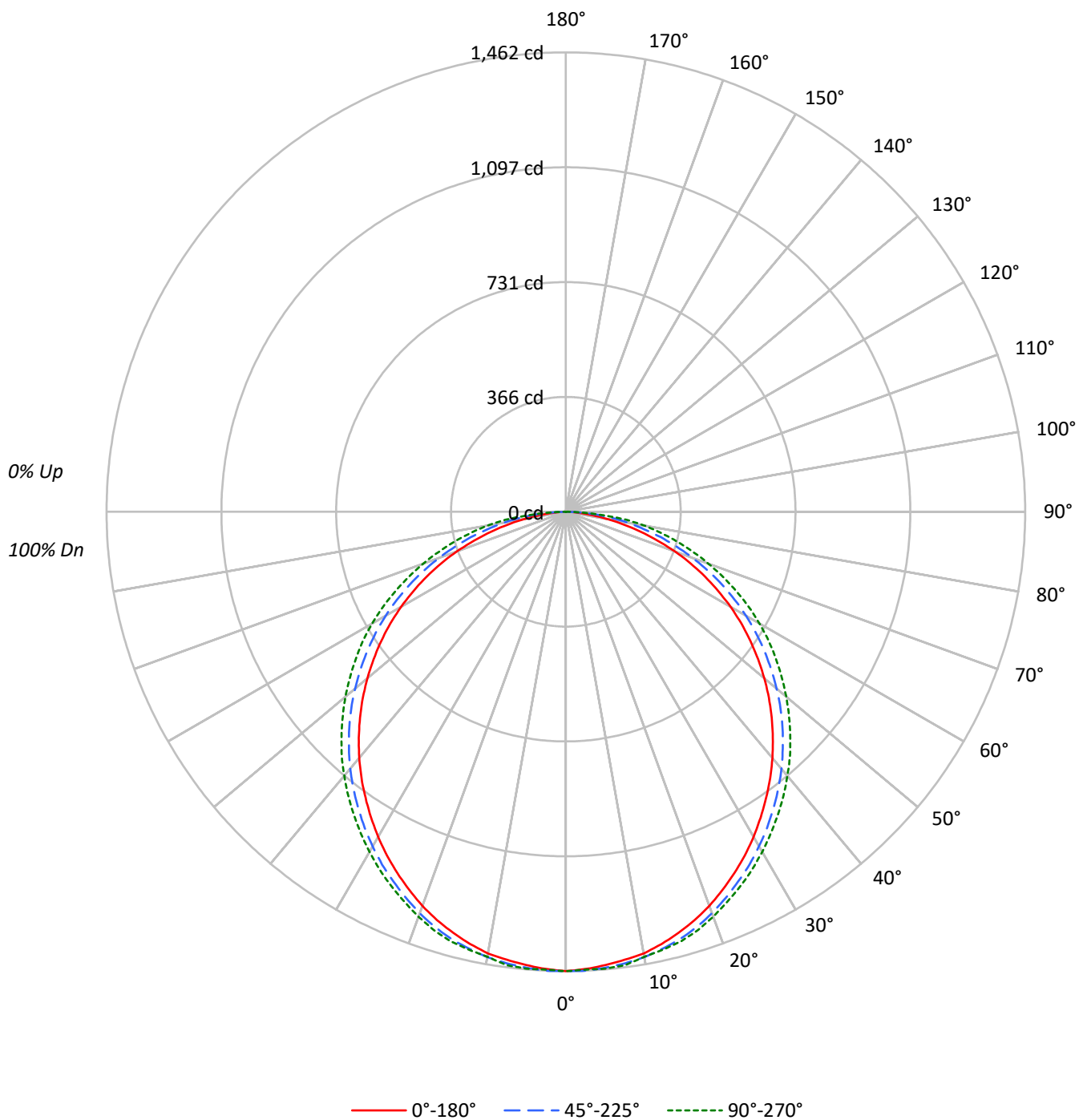
Lumens per Lamp: N/A
Luminaire Lumens: 4253.0 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4578	4578	4578
5°	4552	4578	4587
10°	4538	4576	4573
15°	4496	4562	4588
20°	4448	4531	4570
25°	4384	4486	4542
30°	4320	4446	4519
35°	4249	4403	4498
40°	4181	4364	4484
45°	4104	4319	4473
50°	4016	4265	4461
55°	3916	4211	4455
60°	3793	4148	4458
65°	3620	4060	4434
70°	3384	3937	4423
75°	2999	3786	4439
80°	2442	3598	4569
85°	1577	3320	3945

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4630 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	3.3
10°-20°	396.2	9.3
20°-30°	597.4	14.0
30°-40°	718.8	16.9
40°-50°	749.8	17.6
50°-60°	687.2	16.2
60°-70°	539.7	12.7
70°-80°	328.4	7.7
80°-90°	97.2	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°	1131.9	26.6
0°-40°	1850.7	43.5
0°-60°	3287.7	77.3
0°-90°	4253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1462	1462	1462	1462	1462	
5°	1448	1458	1456	1455	1459	138
15°	1387	1401	1407	1409	1415	391
25°	1269	1286	1298	1306	1315	585
35°	1112	1129	1152	1168	1177	696
45°	927	946	975	998	1010	715
55°	717	736	771	802	816	641
65°	489	507	548	585	598	483
75°	248	271	313	350	367	263
85°	44	62	92	103	110	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1462.0	1462.0	1462.0	1462.0	1462.0
2.5°	1456.5	1463.9	1462.0	1455.6	1458.4
5°	1448.3	1457.5	1456.5	1454.7	1459.3
7.5°	1438.2	1448.3	1449.2	1449.2	1454.7
10°	1427.3	1437.3	1439.2	1436.4	1438.2
12.5°	1409.0	1420.9	1424.5	1424.5	1427.3
15°	1387.0	1400.7	1407.1	1409.0	1415.4
17.5°	1363.2	1377.9	1386.1	1390.7	1396.2
20°	1334.9	1350.4	1359.6	1365.1	1371.5
22.5°	1302.8	1320.2	1330.3	1335.8	1343.1
25°	1269.0	1286.4	1298.3	1306.5	1314.7
27.5°	1233.3	1249.8	1266.2	1276.3	1283.6
30°	1194.9	1212.3	1229.6	1242.5	1249.8
32.5°	1153.7	1172.0	1192.1	1205.9	1214.1
35°	1111.6	1129.0	1151.9	1168.3	1176.6
37.5°	1068.6	1086.9	1110.7	1128.1	1138.2
40°	1022.9	1042.1	1067.7	1086.9	1097.0
42.5°	975.3	993.6	1022.0	1043.9	1055.8
45°	926.8	946.0	975.3	998.2	1010.1
47.5°	876.5	894.8	926.8	953.3	963.4
50°	824.3	841.7	875.6	903.9	915.8
52.5°	771.3	789.6	823.4	853.6	866.4
55°	717.3	735.6	771.3	802.4	816.1
57.5°	662.4	680.7	717.3	749.3	765.8
60°	605.7	624.0	662.4	695.3	711.8
62.5°	547.1	566.3	605.7	639.5	656.9
65°	488.6	506.9	548.0	584.6	598.4
67.5°	430.0	448.3	488.6	525.2	541.6
70°	369.6	390.7	430.0	468.4	483.1
72.5°	306.5	330.3	369.6	409.9	424.5
75°	247.9	270.8	312.9	350.4	366.9
77.5°	190.3	215.0	254.3	292.8	309.2
80°	135.4	159.2	199.5	236.0	253.4
82.5°	86.0	107.0	147.3	180.2	193.0
85°	43.9	62.2	92.4	103.4	109.8
87.5°	12.8	22.0	32.9	41.2	45.7
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	16.78	18.44	17.15	18.76	19.07	17.52	19.18	17.88	19.49	19.81
	3H	18.55	20.06	18.93	20.38	20.74	19.60	21.10	19.98	21.43	21.79
	4H	19.17	20.59	19.57	20.94	21.31	20.46	21.88	20.86	22.23	22.61
	6H	19.58	20.90	19.99	21.26	21.65	21.21	22.53	21.62	22.89	23.28
	8H	19.68	20.94	20.11	21.33	21.73	21.50	22.76	21.93	23.15	23.55
	12H	19.73	20.94	20.16	21.32	21.75	21.70	22.91	22.13	23.29	23.72
4H	2H	17.55	18.97	17.95	19.32	19.70	18.12	19.54	18.52	19.89	20.27
	3H	19.54	20.74	19.95	21.14	21.54	20.44	21.63	20.85	22.03	22.43
	4H	20.29	21.37	20.72	21.78	22.22	21.46	22.54	21.89	22.95	23.39
	6H	20.82	21.77	21.27	22.20	22.66	22.36	23.31	22.81	23.75	24.20
	8H	20.96	21.85	21.42	22.29	22.75	22.73	23.62	23.19	24.06	24.52
	12H	21.04	21.84	21.52	22.31	22.78	22.98	23.78	23.46	24.26	24.73
8H	4H	20.73	21.62	21.19	22.06	22.53	21.75	22.64	22.21	23.08	23.55
	6H	21.40	22.14	21.89	22.62	23.10	22.81	23.55	23.30	24.04	24.51
	8H	21.60	22.27	22.11	22.78	23.26	23.28	23.95	23.79	24.45	24.94
	12H	21.74	22.33	22.25	22.82	23.38	23.63	24.22	24.14	24.71	25.27
12H	4H	20.81	21.61	21.29	22.09	22.56	21.78	22.58	22.26	23.06	23.52
	6H	21.52	22.19	22.03	22.69	23.18	22.86	23.53	23.37	24.03	24.52
	8H	21.80	22.39	22.30	22.88	23.43	23.40	23.99	23.90	24.48	25.04