

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: P1586682

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586682
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: 22CZSP-A-47-L930-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

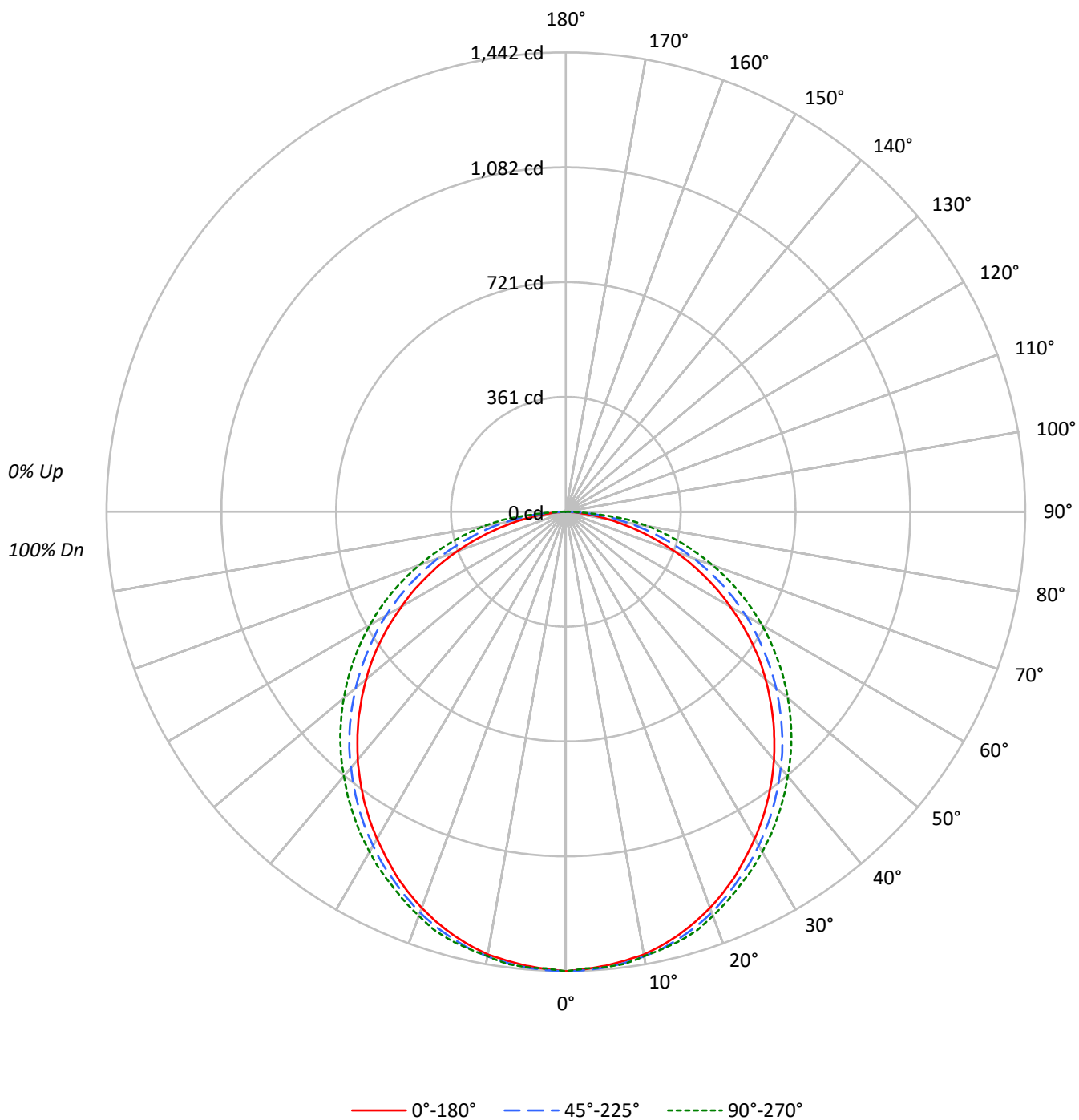
Lumens per Lamp: N/A
Luminaire Lumens: 4211.0 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	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°	4517	4517	4517
5°	4496	4513	4511
10°	4486	4507	4504
15°	4454	4490	4517
20°	4409	4462	4499
25°	4354	4415	4469
30°	4286	4377	4457
35°	4224	4334	4443
40°	4155	4291	4431
45°	4075	4247	4435
50°	3988	4195	4434
55°	3884	4137	4439
60°	3738	4091	4450
65°	3567	4012	4464
70°	3324	3900	4483
75°	2963	3744	4527
80°	2449	3565	4748
85°	1595	3219	4150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4899 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	3.2
10°-20°	390.6	9.3
20°-30°	589.1	14.0
30°-40°	709.6	16.8
40°-50°	741.0	17.6
50°-60°	680.5	16.2
60°-70°	536.0	12.7
70°-80°	328.8	7.8
80°-90°	99.0	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°	1116.1	26.5
0°-40°	1825.7	43.4
0°-60°	3247.2	77.1
0°-90°	4211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1442	1442	1442	1442	1442	
5°	1430	1432	1436	1440	1435	136
15°	1374	1377	1385	1393	1393	387
25°	1260	1263	1278	1294	1294	580
35°	1105	1111	1134	1157	1162	691
45°	920	930	959	992	1002	710
55°	712	724	758	800	813	635
65°	481	498	542	587	602	476
75°	245	264	310	358	374	260
85°	44	61	90	114	116	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1442.4	1442.4	1442.4	1442.4	1442.4
2.5°	1436.8	1439.6	1440.5	1441.5	1435.0
5°	1430.4	1432.2	1435.9	1440.5	1435.0
7.5°	1421.1	1423.0	1427.6	1434.1	1431.3
10°	1411.0	1411.9	1417.4	1422.1	1416.5
12.5°	1394.3	1397.1	1403.6	1407.3	1405.4
15°	1374.0	1376.8	1385.1	1393.4	1393.4
17.5°	1350.0	1353.7	1363.8	1374.9	1375.9
20°	1323.2	1326.0	1338.9	1350.0	1350.0
22.5°	1292.7	1296.4	1309.3	1321.3	1323.2
25°	1260.3	1263.1	1277.9	1293.6	1293.6
27.5°	1222.5	1228.0	1246.5	1262.2	1265.9
30°	1185.5	1190.1	1210.5	1229.9	1232.6
32.5°	1146.7	1152.2	1173.5	1194.7	1199.4
35°	1105.1	1110.7	1133.8	1156.9	1162.4
37.5°	1061.7	1068.2	1092.2	1119.0	1124.5
40°	1016.4	1023.8	1049.7	1078.3	1083.9
42.5°	968.4	978.5	1006.2	1035.8	1044.1
45°	920.3	930.5	959.1	992.4	1001.6
47.5°	869.5	881.5	911.1	946.2	956.4
50°	818.7	830.7	861.2	899.1	910.2
52.5°	766.9	778.9	810.4	850.1	862.1
55°	711.5	724.4	757.7	800.2	813.1
57.5°	654.2	670.8	705.9	749.4	762.3
60°	596.9	613.5	653.3	695.8	710.6
62.5°	540.5	556.3	596.9	642.2	657.9
65°	481.4	498.0	541.5	586.7	602.5
67.5°	423.2	439.8	483.3	530.4	547.0
70°	363.1	381.6	426.0	473.1	489.7
72.5°	303.1	322.5	367.8	415.8	431.5
75°	244.9	264.3	309.5	358.5	374.2
77.5°	187.6	208.8	253.2	303.1	317.9
80°	135.8	156.2	197.7	246.7	263.3
82.5°	86.9	104.4	146.0	192.2	204.2
85°	44.4	61.0	89.6	113.7	115.5
87.5°	13.9	19.4	29.6	44.4	45.3
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	16.72	18.38	17.08	18.69	19.01	17.55	19.21	17.91	19.52	19.84
	3H	18.47	19.98	18.85	20.31	20.66	19.66	21.17	20.04	21.50	21.86
	4H	19.09	20.51	19.49	20.86	21.23	20.55	21.97	20.95	22.32	22.70
	6H	19.50	20.82	19.91	21.19	21.58	21.33	22.65	21.74	23.02	23.41
	8H	19.61	20.87	20.03	21.26	21.66	21.65	22.92	22.08	23.30	23.70
	12H	19.66	20.87	20.09	21.25	21.68	21.86	23.08	22.29	23.46	23.88
4H	2H	17.49	18.91	17.89	19.26	19.63	18.13	19.56	18.53	19.90	20.28
	3H	19.47	20.66	19.87	21.06	21.46	20.49	21.69	20.90	22.08	22.48
	4H	20.20	21.29	20.63	21.70	22.14	21.54	22.63	21.97	23.04	23.48
	6H	20.73	21.68	21.18	22.12	22.58	22.49	23.45	22.95	23.89	24.34
	8H	20.88	21.77	21.34	22.21	22.67	22.89	23.78	23.35	24.22	24.69
	12H	20.96	21.76	21.44	22.24	22.71	23.17	23.97	23.65	24.45	24.91
8H	4H	20.66	21.55	21.12	21.99	22.46	21.83	22.72	22.29	23.16	23.63
	6H	21.32	22.07	21.81	22.55	23.03	22.94	23.69	23.43	24.17	24.65
	8H	21.53	22.20	22.04	22.71	23.19	23.45	24.12	23.96	24.63	25.11
	12H	21.67	22.26	22.18	22.75	23.31	23.84	24.43	24.35	24.92	25.48
12H	4H	20.75	21.55	21.23	22.03	22.50	21.86	22.66	22.33	23.13	23.60
	6H	21.45	22.12	21.96	22.63	23.11	22.99	23.66	23.50	24.16	24.65
	8H	21.73	22.32	22.24	22.81	23.37	23.57	24.16	24.07	24.65	25.21