

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: P1586443

Luminaire Tested: 22CZSP-47-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-772-10)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-47-L930
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

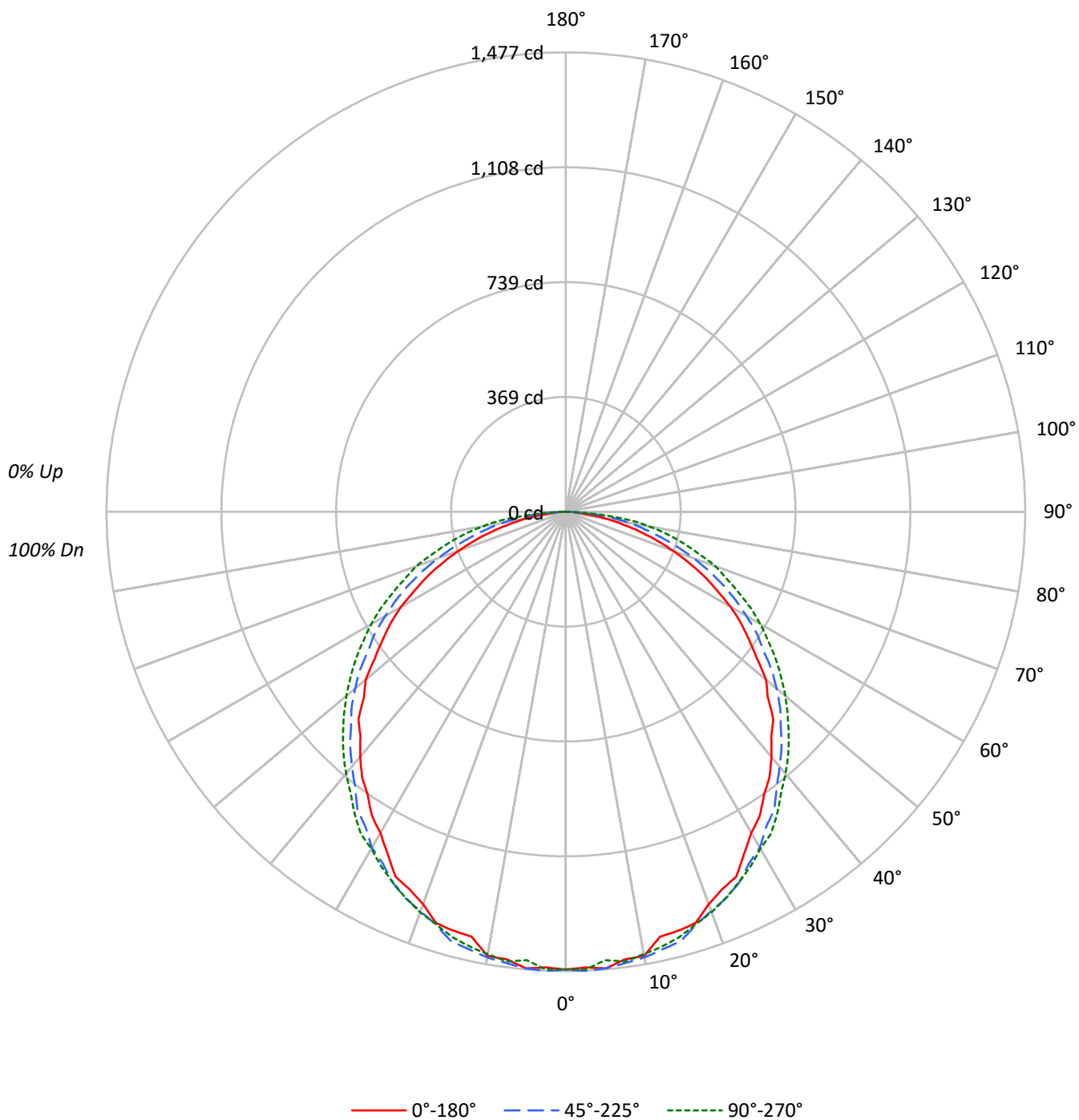
Lumens per Lamp: N/A
Luminaire Lumens: 4297.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	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	31	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°	4608	4608	4608
5°	4632	4632	4548
10°	4610	4627	4592
15°	4521	4632	4587
20°	4474	4553	4565
25°	4474	4550	4543
30°	4311	4510	4523
35°	4246	4466	4529
40°	4203	4371	4492
45°	4176	4326	4488
50°	4094	4308	4487
55°	3927	4227	4497
60°	3833	4195	4522
65°	3639	4135	4535
70°	3356	4002	4690
75°	2982	3826	4734
80°	2479	3751	4908
85°	1516	3359	4150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5079 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	3.2
10°-20°	398.8	9.3
20°-30°	601.5	14.0
30°-40°	722.5	16.8
40°-50°	754.1	17.6
50°-60°	694.4	16.2
60°-70°	548.3	12.8
70°-80°	337.7	7.9
80°-90°	100.1	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°	1139.9	26.5
0°-40°	1862.3	43.3
0°-60°	3310.9	77.1
0°-90°	4297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4297.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1472	1472	1472	1472	1472	
5°	1474	1459	1474	1475	1447	139
15°	1395	1414	1429	1422	1415	394
25°	1295	1304	1317	1311	1315	590
35°	1111	1131	1168	1174	1185	698
45°	943	950	977	998	1014	721
55°	719	739	774	809	824	646
65°	491	509	558	598	612	484
75°	246	270	316	367	391	262
85°	42	60	94	111	116	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1471.7	1471.7	1471.7	1471.7	1471.7
2.5°	1466.2	1481.8	1477.2	1480.0	1472.6
5°	1473.6	1458.9	1473.6	1475.4	1447.0
7.5°	1451.6	1453.4	1463.5	1466.2	1458.0
10°	1449.7	1455.2	1455.2	1446.1	1444.2
12.5°	1399.3	1426.8	1440.6	1447.0	1431.4
15°	1394.7	1414.0	1428.7	1422.2	1414.9
17.5°	1386.5	1381.0	1391.1	1398.4	1390.2
20°	1342.5	1351.7	1366.3	1368.2	1370.0
22.5°	1313.2	1315.9	1345.3	1348.0	1344.3
25°	1294.9	1304.0	1316.9	1311.4	1315.0
27.5°	1240.8	1262.8	1274.7	1285.7	1285.7
30°	1192.2	1217.9	1247.2	1250.9	1250.9
32.5°	1160.1	1177.6	1199.6	1206.9	1227.0
35°	1110.7	1130.8	1168.4	1173.9	1184.9
37.5°	1075.8	1096.0	1113.4	1132.7	1137.2
40°	1028.2	1049.3	1069.4	1091.4	1098.8
42.5°	977.8	999.8	1026.4	1049.3	1058.4
45°	943.0	950.3	976.9	997.9	1013.5
47.5°	879.7	900.8	934.7	961.3	967.7
50°	840.3	848.6	884.3	920.1	921.0
52.5°	774.3	799.1	833.9	867.8	872.4
55°	719.4	738.6	774.3	809.2	823.8
57.5°	668.0	682.7	728.5	763.4	771.6
60°	612.1	627.7	669.9	710.2	722.1
62.5°	547.1	569.1	614.9	653.4	669.9
65°	491.2	508.6	558.1	598.4	612.1
67.5°	428.0	451.8	498.5	543.4	558.1
70°	366.6	390.4	437.1	483.9	512.3
72.5°	306.1	330.8	377.6	431.6	447.2
75°	246.5	270.3	316.2	366.6	391.3
77.5°	187.9	213.5	260.3	310.7	334.5
80°	137.5	157.6	208.0	252.0	272.2
82.5°	85.2	106.3	153.0	194.3	211.7
85°	42.2	60.5	93.5	110.9	115.5
87.5°	12.8	19.2	29.3	38.5	44.0
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	16.77	18.44	17.14	18.75	19.07	17.60	19.26	17.96	19.57	19.89
	3H	18.53	20.04	18.91	20.36	20.72	19.75	21.25	20.12	21.58	21.94
	4H	19.14	20.56	19.54	20.91	21.29	20.66	22.08	21.06	22.43	22.80
	6H	19.55	20.87	19.96	21.23	21.62	21.46	22.78	21.87	23.15	23.54
	8H	19.65	20.91	20.07	21.30	21.70	21.78	23.05	22.21	23.43	23.83
	12H	19.69	20.90	20.12	21.29	21.71	21.99	23.20	22.42	23.58	24.01
4H	2H	17.57	18.99	17.96	19.34	19.71	18.20	19.63	18.60	19.97	20.35
	3H	19.54	20.74	19.95	21.13	21.53	20.58	21.78	20.99	22.18	22.58
	4H	20.27	21.36	20.70	21.77	22.21	21.65	22.74	22.08	23.15	23.58
	6H	20.79	21.74	21.24	22.18	22.64	22.62	23.57	23.07	24.01	24.46
	8H	20.93	21.82	21.39	22.27	22.73	23.01	23.91	23.47	24.35	24.81
	12H	21.01	21.81	21.49	22.29	22.75	23.28	24.09	23.76	24.56	25.03
8H	4H	20.74	21.63	21.20	22.07	22.53	21.94	22.83	22.40	23.27	23.74
	6H	21.39	22.14	21.88	22.62	23.10	23.06	23.81	23.56	24.30	24.77
	8H	21.60	22.27	22.10	22.77	23.26	23.57	24.24	24.08	24.75	25.23
	12H	21.73	22.32	22.23	22.81	23.37	23.94	24.53	24.45	25.02	25.58
12H	4H	20.83	21.63	21.31	22.11	22.58	21.96	22.77	22.44	23.24	23.71
	6H	21.53	22.20	22.04	22.70	23.19	23.11	23.78	23.62	24.29	24.77
	8H	21.80	22.40	22.31	22.89	23.44	23.69	24.28	24.19	24.77	25.33