

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: P1586400

Luminaire Tested: 22CZSP-42-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586400
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-42-L850-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

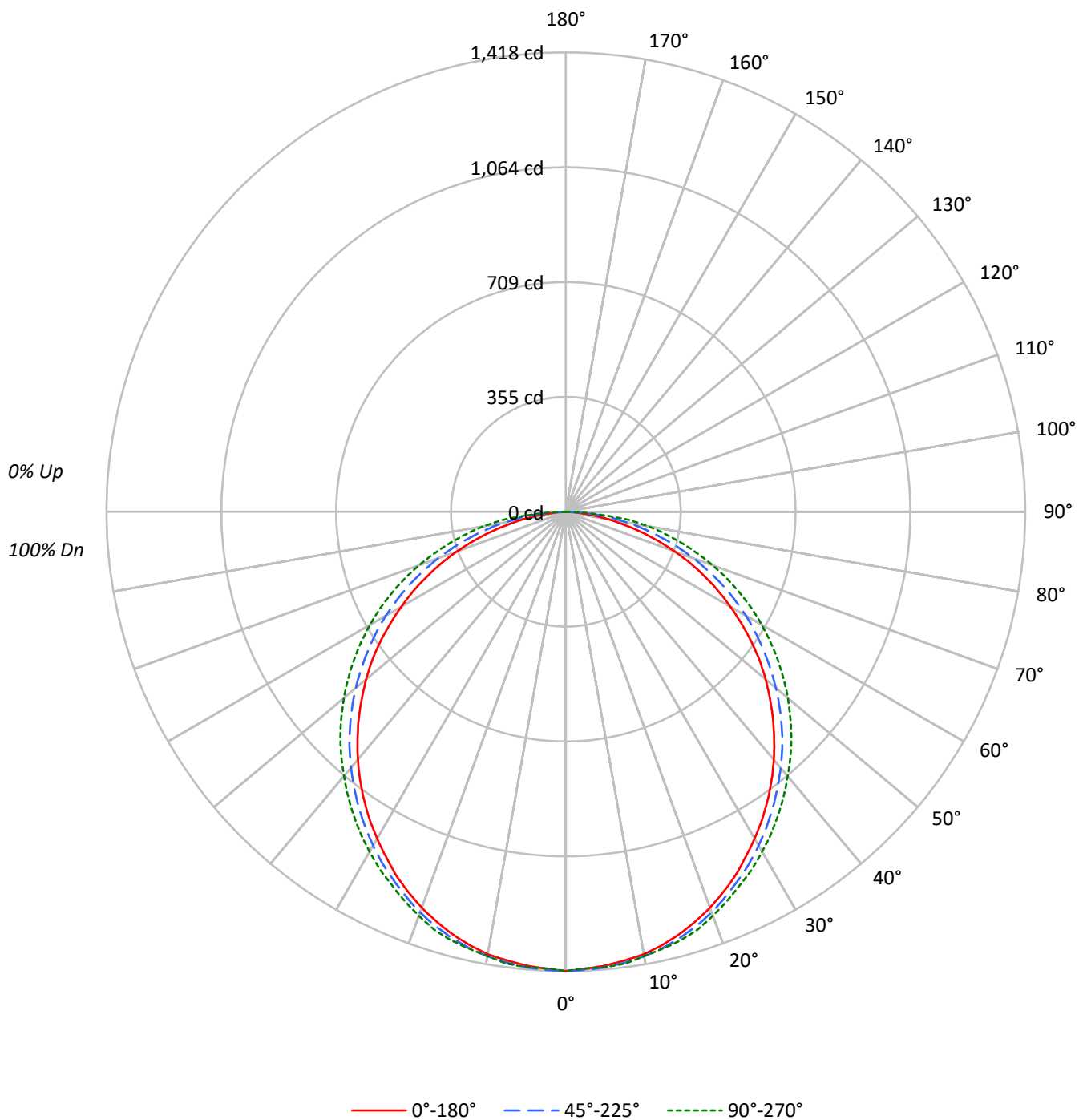
Lumens per Lamp: N/A
Luminaire Lumens: 4139.0 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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°	4439	4439	4439
5°	4419	4436	4434
10°	4410	4430	4427
15°	4378	4413	4440
20°	4334	4385	4422
25°	4280	4340	4393
30°	4213	4302	4381
35°	4152	4260	4367
40°	4084	4217	4355
45°	4006	4175	4360
50°	3920	4124	4358
55°	3818	4066	4363
60°	3674	4021	4374
65°	3506	3943	4388
70°	3268	3833	4407
75°	2912	3682	4450
80°	2407	3506	4667
85°	1566	3165	4078

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4815 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	3.2
10°-20°	383.9	9.3
20°-30°	579.0	14.0
30°-40°	697.4	16.8
40°-50°	728.3	17.6
50°-60°	668.9	16.2
60°-70°	526.8	12.7
70°-80°	323.2	7.8
80°-90°	97.3	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°	1097.0	26.5
0°-40°	1794.4	43.4
0°-60°	3191.7	77.1
0°-90°	4139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1418	1418	1418	1418	1418	
5°	1406	1408	1411	1416	1410	134
15°	1350	1353	1361	1370	1370	381
25°	1239	1242	1256	1272	1272	570
35°	1086	1092	1114	1137	1142	679
45°	905	915	943	975	984	697
55°	699	712	745	786	799	624
65°	473	490	532	577	592	468
75°	241	260	304	352	368	255
85°	44	60	88	112	114	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1417.7	1417.7	1417.7	1417.7	1417.7
2.5°	1412.3	1415.0	1415.9	1416.8	1410.5
5°	1405.9	1407.7	1411.4	1415.9	1410.5
7.5°	1396.8	1398.6	1403.2	1409.5	1406.8
10°	1386.8	1387.7	1393.2	1397.7	1392.3
12.5°	1370.5	1373.2	1379.6	1383.2	1381.4
15°	1350.5	1353.2	1361.4	1369.6	1369.6
17.5°	1326.9	1330.5	1340.5	1351.4	1352.3
20°	1300.6	1303.3	1316.0	1326.9	1326.9
22.5°	1270.6	1274.2	1286.9	1298.7	1300.6
25°	1238.8	1241.5	1256.1	1271.5	1271.5
27.5°	1201.6	1207.0	1225.2	1240.6	1244.2
30°	1165.2	1169.8	1189.8	1208.8	1211.6
32.5°	1127.1	1132.5	1153.4	1174.3	1178.9
35°	1086.2	1091.7	1114.4	1137.1	1142.5
37.5°	1043.5	1049.9	1073.5	1099.8	1105.3
40°	999.0	1006.3	1031.7	1059.9	1065.3
42.5°	951.8	961.8	989.0	1018.1	1026.3
45°	904.6	914.6	942.7	975.4	984.5
47.5°	854.6	866.4	895.5	930.0	940.0
50°	804.7	816.5	846.5	883.7	894.6
52.5°	753.8	765.6	796.5	835.6	847.4
55°	699.3	712.0	744.7	786.5	799.2
57.5°	643.0	659.4	693.9	736.6	749.3
60°	586.7	603.1	642.1	683.9	698.4
62.5°	531.3	546.7	586.7	631.2	646.6
65°	473.2	489.5	532.2	576.7	592.2
67.5°	416.0	432.3	475.0	521.3	537.7
70°	356.9	375.1	418.7	465.0	481.4
72.5°	297.9	317.0	361.5	408.7	424.1
75°	240.7	259.7	304.3	352.4	367.8
77.5°	184.4	205.3	248.8	297.9	312.4
80°	133.5	153.5	194.4	242.5	258.8
82.5°	85.4	102.6	143.5	188.9	200.7
85°	43.6	59.9	88.1	111.7	113.5
87.5°	13.6	19.1	29.1	43.6	44.5
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	16.66	18.32	17.02	18.63	18.95	17.49	19.15	17.85	19.46	19.78
	3H	18.41	19.92	18.79	20.25	20.61	19.60	21.11	19.98	21.44	21.80
	4H	19.03	20.45	19.43	20.80	21.18	20.49	21.91	20.89	22.26	22.64
	6H	19.44	20.76	19.85	21.13	21.52	21.27	22.59	21.68	22.96	23.35
	8H	19.55	20.81	19.97	21.20	21.60	21.59	22.86	22.02	23.24	23.64
	12H	19.60	20.81	20.03	21.19	21.62	21.80	23.02	22.23	23.40	23.82
4H	2H	17.43	18.85	17.83	19.20	19.57	18.07	19.50	18.47	19.84	20.22
	3H	19.41	20.60	19.81	21.00	21.40	20.43	21.63	20.84	22.02	22.42
	4H	20.14	21.23	20.57	21.64	22.08	21.48	22.57	21.91	22.98	23.42
	6H	20.67	21.62	21.12	22.06	22.52	22.43	23.39	22.89	23.83	24.28
	8H	20.82	21.71	21.28	22.15	22.62	22.83	23.72	23.29	24.16	24.63
	12H	20.90	21.70	21.38	22.18	22.65	23.11	23.91	23.59	24.39	24.85
8H	4H	20.60	21.49	21.06	21.93	22.40	21.77	22.66	22.23	23.10	23.57
	6H	21.26	22.01	21.75	22.49	22.97	22.88	23.63	23.37	24.11	24.59
	8H	21.47	22.14	21.98	22.65	23.13	23.39	24.06	23.90	24.57	25.05
	12H	21.61	22.20	22.12	22.69	23.25	23.78	24.37	24.29	24.86	25.42
12H	4H	20.69	21.49	21.17	21.97	22.44	21.80	22.60	22.27	23.07	23.54
	6H	21.39	22.06	21.90	22.57	23.05	22.93	23.60	23.44	24.10	24.59
	8H	21.67	22.26	22.18	22.75	23.31	23.51	24.10	24.01	24.59	25.15