

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: P1586643

Luminaire Tested: 22CZSP-A-42-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586643
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-A-42-L930
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

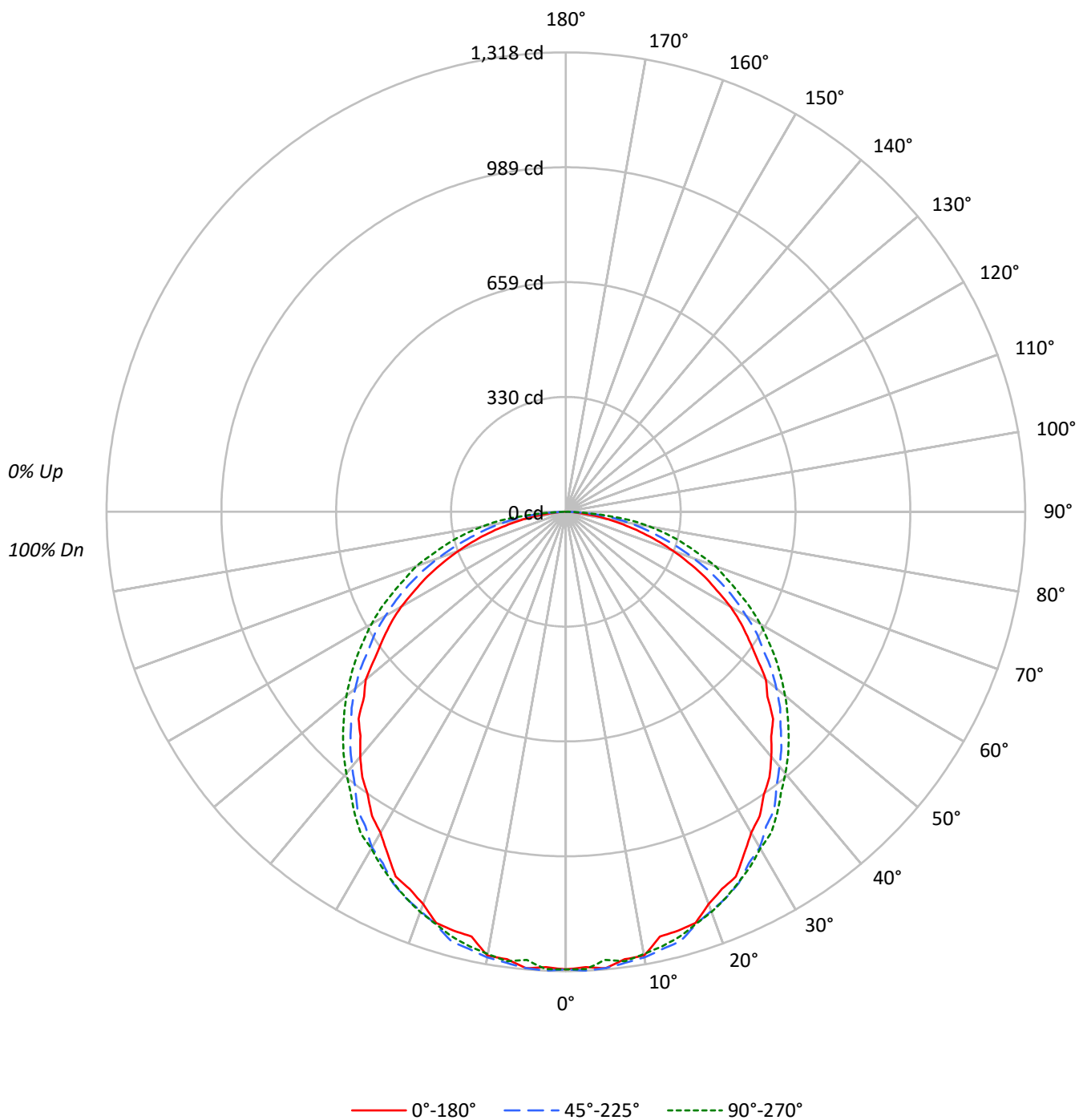
Lumens per Lamp: N/A
Luminaire Lumens: 3833.0 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	4111	4111	4111
5°	4132	4132	4057
10°	4112	4127	4096
15°	4033	4131	4091
20°	3990	4061	4072
25°	3991	4059	4053
30°	3845	4023	4034
35°	3787	3984	4040
40°	3749	3899	4006
45°	3725	3859	4004
50°	3652	3843	4002
55°	3503	3771	4012
60°	3419	3742	4034
65°	3246	3688	4046
70°	2994	3570	4183
75°	2660	3412	4222
80°	2211	3347	4378
85°	1351	2996	3701

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4529 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	3.2
10°-20°	355.7	9.3
20°-30°	536.6	14.0
30°-40°	644.5	16.8
40°-50°	672.7	17.6
50°-60°	619.4	16.2
60°-70°	489.1	12.8
70°-80°	301.2	7.9
80°-90°	89.3	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°	1016.8	26.5
0°-40°	1661.2	43.3
0°-60°	2953.3	77.1
0°-90°	3833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1313	1313	1313	1313	1313	
5°	1314	1301	1314	1316	1291	124
15°	1244	1261	1274	1269	1262	352
25°	1155	1163	1175	1170	1173	526
35°	991	1009	1042	1047	1057	623
45°	841	848	871	890	904	643
55°	642	659	691	722	735	576
65°	438	454	498	534	546	431
75°	220	241	282	327	349	233
85°	38	54	83	99	103	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1312.8	1312.8	1312.8	1312.8	1312.8
2.5°	1307.9	1321.8	1317.7	1320.2	1313.6
5°	1314.4	1301.4	1314.4	1316.1	1290.7
7.5°	1294.8	1296.5	1305.4	1307.9	1300.5
10°	1293.2	1298.1	1298.1	1289.9	1288.3
12.5°	1248.2	1272.7	1285.0	1290.7	1276.8
15°	1244.1	1261.3	1274.4	1268.7	1262.1
17.5°	1236.8	1231.9	1240.9	1247.4	1240.0
20°	1197.5	1205.7	1218.8	1220.4	1222.1
22.5°	1171.4	1173.8	1200.0	1202.4	1199.2
25°	1155.0	1163.2	1174.7	1169.8	1173.0
27.5°	1106.8	1126.4	1137.1	1146.9	1146.9
30°	1063.5	1086.4	1112.5	1115.8	1115.8
32.5°	1034.9	1050.4	1070.0	1076.6	1094.5
35°	990.7	1008.7	1042.2	1047.1	1056.9
37.5°	959.7	977.7	993.2	1010.4	1014.4
40°	917.2	936.0	953.9	973.6	980.1
42.5°	872.2	891.8	915.5	936.0	944.1
45°	841.1	847.7	871.4	890.2	904.1
47.5°	784.7	803.5	833.8	857.5	863.2
50°	749.6	756.9	788.8	820.7	821.5
52.5°	690.7	712.8	743.9	774.1	778.2
55°	641.7	658.9	690.7	721.8	734.9
57.5°	595.9	609.0	649.9	680.9	688.3
60°	546.0	559.9	597.5	633.5	644.1
62.5°	488.0	507.6	548.5	582.8	597.5
65°	438.1	453.7	497.8	533.8	546.0
67.5°	381.7	403.0	444.7	484.7	497.8
70°	327.0	348.2	389.9	431.6	456.9
72.5°	273.0	295.1	336.8	385.0	398.9
75°	219.9	241.1	282.0	327.0	349.0
77.5°	167.6	190.5	232.2	277.1	298.4
80°	122.6	140.6	185.6	224.8	242.8
82.5°	76.0	94.8	136.5	173.3	188.8
85°	37.6	54.0	83.4	98.9	103.0
87.5°	11.4	17.2	26.2	34.3	39.2
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	16.38	18.04	16.74	18.35	18.67	17.20	18.86	17.57	19.18	19.49
	3H	18.13	19.64	18.51	19.97	20.33	19.35	20.86	19.72	21.18	21.54
	4H	18.74	20.17	19.14	20.51	20.89	20.26	21.68	20.66	22.03	22.41
	6H	19.15	20.47	19.56	20.83	21.22	21.06	22.38	21.47	22.75	23.14
	8H	19.25	20.51	19.67	20.90	21.30	21.39	22.65	21.81	23.04	23.43
	12H	19.30	20.51	19.72	20.89	21.32	21.59	22.80	22.02	23.18	23.61
4H	2H	17.17	18.59	17.57	18.94	19.31	17.81	19.23	18.20	19.58	19.95
	3H	19.14	20.34	19.55	20.74	21.14	20.19	21.38	20.59	21.78	22.18
	4H	19.87	20.96	20.31	21.37	21.81	21.25	22.34	21.68	22.75	23.19
	6H	20.39	21.35	20.85	21.79	22.24	22.22	23.17	22.67	23.61	24.07
	8H	20.53	21.43	20.99	21.87	22.33	22.62	23.51	23.08	23.95	24.42
	12H	20.61	21.41	21.09	21.89	22.36	22.89	23.69	23.36	24.16	24.63
8H	4H	20.34	21.23	20.80	21.67	22.14	21.54	22.43	22.00	22.88	23.34
	6H	21.00	21.74	21.49	22.23	22.70	22.67	23.41	23.16	23.90	24.37
	8H	21.20	21.87	21.71	22.37	22.86	23.18	23.84	23.68	24.35	24.83
	12H	21.33	21.92	21.83	22.41	22.97	23.54	24.14	24.05	24.63	25.18
12H	4H	20.43	21.24	20.91	21.71	22.18	21.57	22.37	22.05	22.84	23.31
	6H	21.13	21.80	21.64	22.31	22.79	22.72	23.39	23.22	23.89	24.38
	8H	21.41	22.00	21.91	22.49	23.05	23.29	23.88	23.80	24.37	24.93