

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: P1586401

Luminaire Tested: 22CZSP-42-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586401
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-42-L850
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

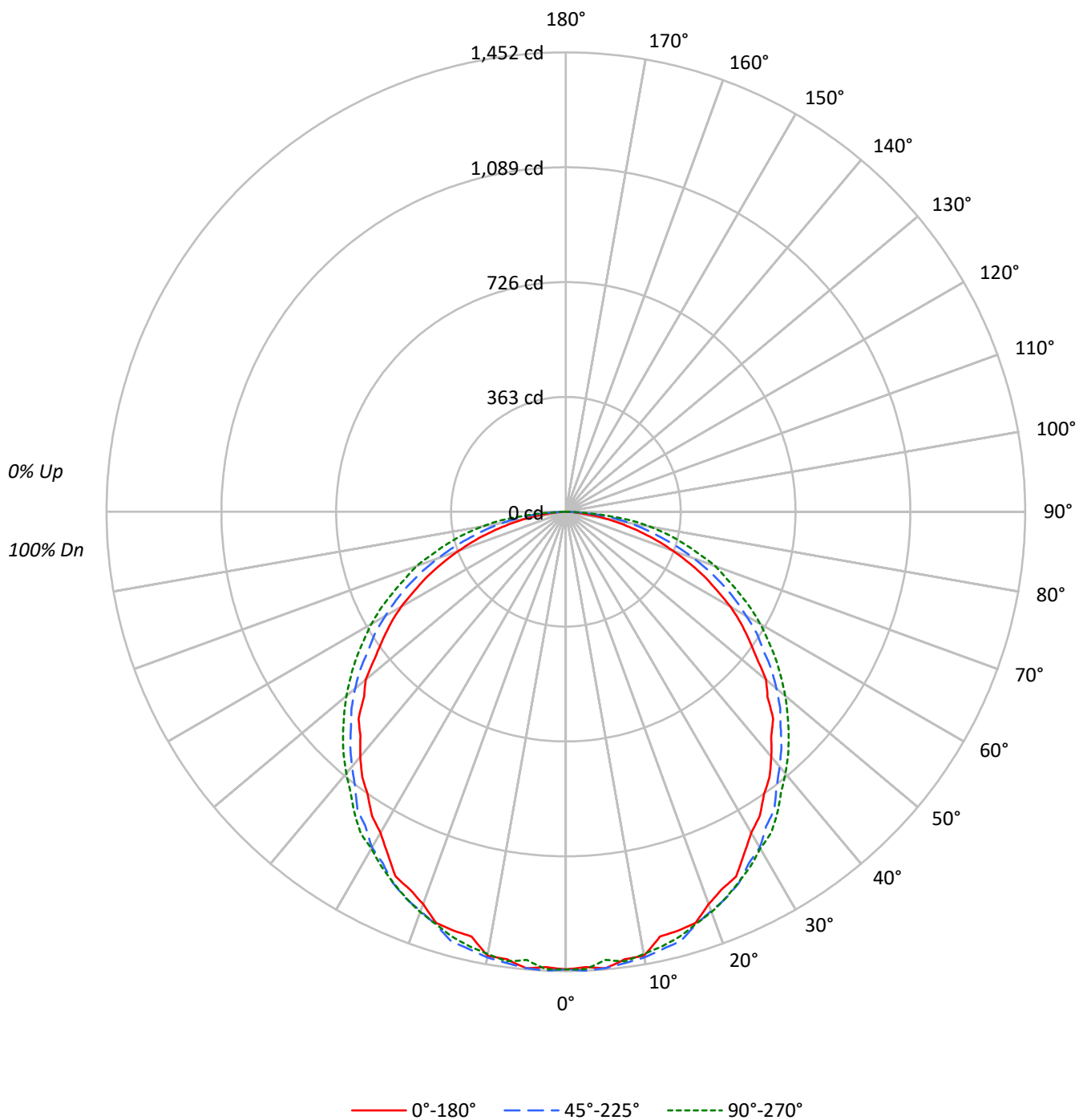
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4223.0 lumens
Efficiency: N/A
Efficacy: 146.1 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

TEST NUMBER: P1586401
CATALOG NUMBER: 22CZSP-42-L850

Luminous Intensity Polar Plot



TEST NUMBER: P1586401

CATALOG NUMBER: 22CZSP-42-L850

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°	4529	4529	4529
5°	4552	4552	4470
10°	4530	4548	4513
15°	4444	4551	4508
20°	4397	4475	4487
25°	4397	4472	4465
30°	4237	4432	4445
35°	4172	4390	4451
40°	4131	4296	4414
45°	4104	4251	4411
50°	4023	4234	4409
55°	3860	4155	4420
60°	3768	4123	4445
65°	3576	4064	4457
70°	3298	3933	4609
75°	2931	3759	4653
80°	2436	3686	4824
85°	1487	3302	4078

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4990 cd/sqm

TEST NUMBER: P1586401

CATALOG NUMBER: 22CZSP-42-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	3.2
10°-20°	391.9	9.3
20°-30°	591.2	14.0
30°-40°	710.0	16.8
40°-50°	741.1	17.6
50°-60°	682.4	16.2
60°-70°	538.9	12.8
70°-80°	331.9	7.9
80°-90°	98.4	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°	1120.2	26.5
0°-40°	1830.3	43.3
0°-60°	3253.9	77.1
0°-90°	4223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4223.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1448	1434	1448	1450	1422	137
15°	1371	1390	1404	1398	1390	387
25°	1273	1282	1294	1289	1292	580
35°	1092	1111	1148	1154	1164	686
45°	927	934	960	981	996	709
55°	707	726	761	795	810	635
65°	483	500	548	588	602	475
75°	242	266	311	360	385	257
85°	41	59	92	109	114	56
90°	0	0	0	0	0	

TEST NUMBER: P1586401

CATALOG NUMBER: 22CZSP-42-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1441.0	1456.3	1451.8	1454.5	1447.3
5°	1448.2	1433.8	1448.2	1450.0	1422.1
7.5°	1426.6	1428.4	1438.3	1441.0	1432.9
10°	1424.8	1430.2	1430.2	1421.2	1419.4
12.5°	1375.2	1402.2	1415.8	1422.1	1406.7
15°	1370.7	1389.6	1404.0	1397.7	1390.5
17.5°	1362.6	1357.2	1367.1	1374.3	1366.2
20°	1319.4	1328.4	1342.8	1344.6	1346.4
22.5°	1290.6	1293.3	1322.1	1324.8	1321.2
25°	1272.6	1281.6	1294.2	1288.8	1292.4
27.5°	1219.4	1241.0	1252.7	1263.6	1263.6
30°	1171.7	1196.9	1225.7	1229.3	1229.3
32.5°	1140.2	1157.3	1178.9	1186.1	1205.9
35°	1091.5	1111.4	1148.3	1153.7	1164.5
37.5°	1057.3	1077.1	1094.2	1113.2	1117.7
40°	1010.5	1031.2	1051.0	1072.6	1079.8
42.5°	960.9	982.6	1008.7	1031.2	1040.2
45°	926.7	933.9	960.0	980.8	996.1
47.5°	864.6	885.3	918.6	944.7	951.0
50°	825.9	834.0	869.1	904.2	905.1
52.5°	761.0	785.3	819.6	852.9	857.4
55°	707.0	725.9	761.0	795.2	809.6
57.5°	656.5	671.0	716.0	750.2	758.3
60°	601.6	616.9	658.3	698.0	709.7
62.5°	537.7	559.3	604.3	642.1	658.3
65°	482.7	499.8	548.5	588.1	601.6
67.5°	420.6	444.0	489.9	534.1	548.5
70°	360.2	383.7	429.6	475.5	503.4
72.5°	300.8	325.1	371.1	424.2	439.5
75°	242.3	265.7	310.7	360.2	384.6
77.5°	184.6	209.8	255.8	305.3	328.7
80°	135.1	154.9	204.4	247.7	267.5
82.5°	83.8	104.5	150.4	190.9	208.0
85°	41.4	59.4	91.9	109.0	113.5
87.5°	12.6	18.9	28.8	37.8	43.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586401
CATALOG NUMBER: 22CZSP-42-L850

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	16.71	18.38	17.08	18.69	19.01	17.54	19.20	17.90	19.51	19.83
	3H	18.47	19.98	18.84	20.30	20.66	19.68	21.19	20.06	21.52	21.88
	4H	19.08	20.50	19.48	20.85	21.23	20.60	22.02	21.00	22.37	22.74
	6H	19.48	20.81	19.90	21.17	21.56	21.40	22.72	21.81	23.08	23.48
	8H	19.59	20.85	20.01	21.24	21.64	21.72	22.99	22.15	23.37	23.77
	12H	19.63	20.84	20.06	21.23	21.65	21.93	23.14	22.36	23.52	23.95
4H	2H	17.51	18.93	17.90	19.28	19.65	18.14	19.57	18.54	19.91	20.29
	3H	19.48	20.68	19.89	21.07	21.47	20.52	21.72	20.93	22.12	22.52
	4H	20.21	21.30	20.64	21.71	22.15	21.59	22.68	22.02	23.09	23.52
	6H	20.73	21.68	21.18	22.12	22.58	22.56	23.51	23.01	23.95	24.40
	8H	20.87	21.76	21.33	22.21	22.67	22.95	23.85	23.41	24.29	24.75
	12H	20.95	21.75	21.43	22.23	22.69	23.22	24.03	23.70	24.50	24.97
8H	4H	20.68	21.57	21.14	22.01	22.47	21.88	22.77	22.34	23.21	23.68
	6H	21.33	22.08	21.82	22.56	23.04	23.00	23.75	23.50	24.24	24.71
	8H	21.54	22.21	22.04	22.71	23.20	23.51	24.18	24.02	24.68	25.17
	12H	21.67	22.26	22.17	22.75	23.31	23.88	24.47	24.39	24.96	25.52
12H	4H	20.77	21.57	21.25	22.05	22.51	21.90	22.71	22.38	23.18	23.65
	6H	21.47	22.14	21.98	22.64	23.13	23.05	23.72	23.56	24.23	24.71
	8H	21.74	22.34	22.25	22.83	23.38	23.63	24.22	24.13	24.71	25.27