

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: P1587682

Luminaire Tested: 22CZSP-SB-42-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-42-L930-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

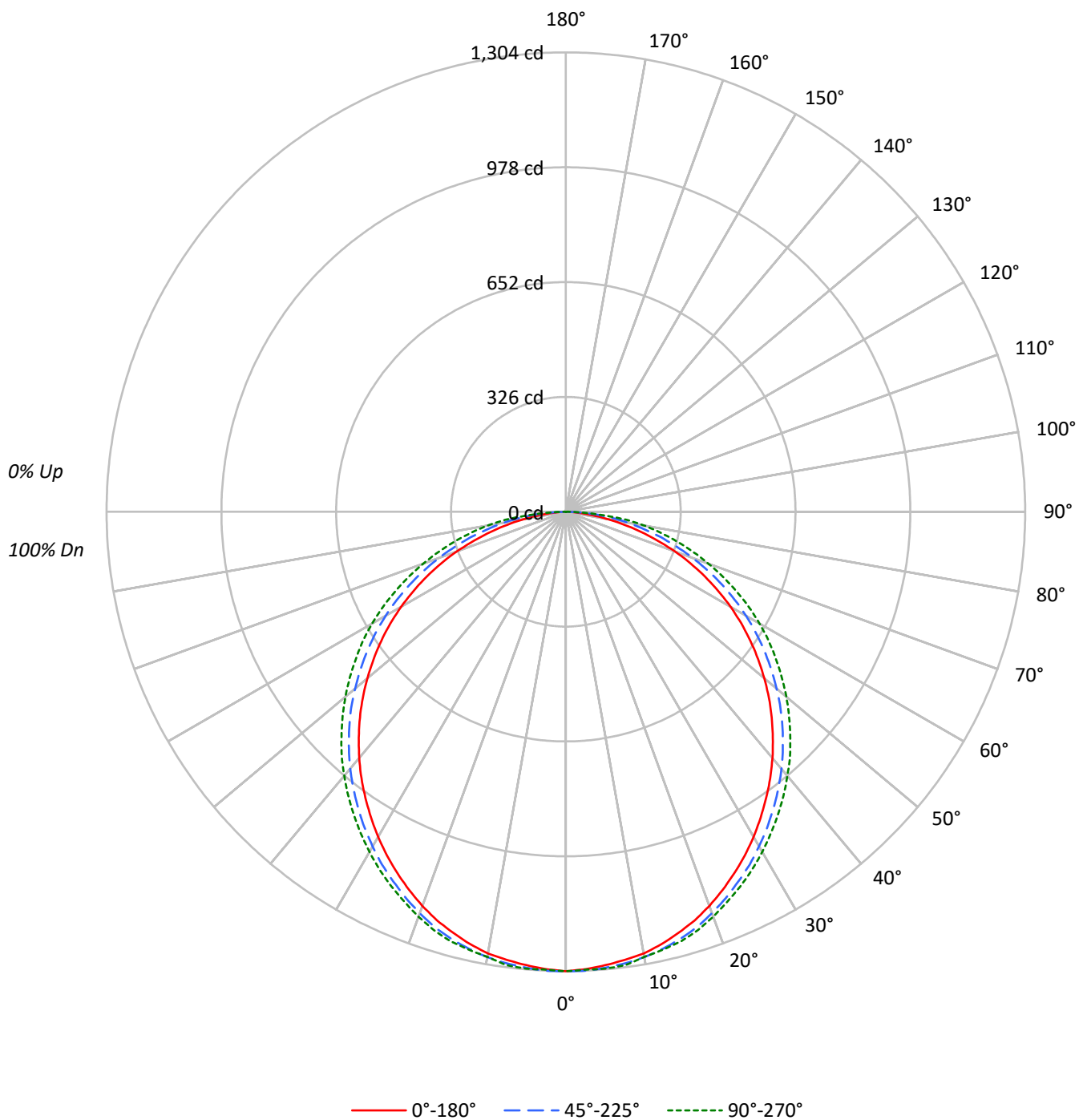
Lumens per Lamp: N/A
Luminaire Lumens: 3794.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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: P1587682

CATALOG NUMBER: 22CZSP-SB-42-L930-S

Luminous Intensity Polar Plot



TEST NUMBER: P1587682

CATALOG NUMBER: 22CZSP-SB-42-L930-S

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	94	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	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4084	4084	4084
5°	4061	4084	4092
10°	4048	4082	4079
15°	4011	4069	4093
20°	3968	4041	4077
25°	3911	4002	4052
30°	3854	3966	4031
35°	3791	3928	4012
40°	3730	3893	4000
45°	3661	3853	3990
50°	3582	3805	3980
55°	3493	3756	3974
60°	3384	3701	3977
65°	3229	3622	3955
70°	3019	3512	3945
75°	2676	3377	3960
80°	2178	3208	4077
85°	1408	2960	3517

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4131 cd/sqm

TEST NUMBER: P1587682

CATALOG NUMBER: 22CZSP-SB-42-L930-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	3.3
10°-20°	353.4	9.3
20°-30°	532.9	14.0
30°-40°	641.2	16.9
40°-50°	668.9	17.6
50°-60°	613.1	16.2
60°-70°	481.4	12.7
70°-80°	293.0	7.7
80°-90°	86.7	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°	1009.8	26.6
0°-40°	1651.0	43.5
0°-60°	2932.9	77.3
0°-90°	3794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3794.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1292	1300	1299	1298	1302	123
15°	1237	1250	1255	1257	1263	349
25°	1132	1148	1158	1166	1173	522
35°	992	1007	1028	1042	1050	621
45°	827	844	870	890	901	638
55°	640	656	688	716	728	572
65°	436	452	489	522	534	431
75°	221	242	279	313	327	234
85°	39	56	82	92	98	51
90°	0	0	0	0	0	

TEST NUMBER: P1587682

CATALOG NUMBER: 22CZSP-SB-42-L930-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1304.2	1304.2	1304.2	1304.2	1304.2
2.5°	1299.3	1305.9	1304.2	1298.5	1301.0
5°	1292.0	1300.2	1299.3	1297.7	1301.8
7.5°	1283.0	1292.0	1292.8	1292.8	1297.7
10°	1273.2	1282.2	1283.8	1281.4	1283.0
12.5°	1256.9	1267.5	1270.8	1270.8	1273.2
15°	1237.3	1249.6	1255.3	1256.9	1262.6
17.5°	1216.1	1229.2	1236.5	1240.6	1245.5
20°	1190.8	1204.7	1212.8	1217.7	1223.4
22.5°	1162.2	1177.7	1186.7	1191.6	1198.1
25°	1132.0	1147.5	1158.2	1165.5	1172.8
27.5°	1100.2	1114.9	1129.6	1138.6	1145.1
30°	1065.9	1081.4	1096.9	1108.4	1114.9
32.5°	1029.2	1045.5	1063.5	1075.7	1083.1
35°	991.7	1007.2	1027.6	1042.3	1049.6
37.5°	953.3	969.6	990.8	1006.3	1015.3
40°	912.5	929.6	952.5	969.6	978.6
42.5°	870.0	886.4	911.7	931.3	941.9
45°	826.8	843.9	870.0	890.4	901.1
47.5°	781.9	798.2	826.8	850.5	859.4
50°	735.4	750.9	781.1	806.4	817.0
52.5°	688.0	704.4	734.6	761.5	772.9
55°	639.9	656.2	688.0	715.8	728.0
57.5°	590.9	607.2	639.9	668.4	683.1
60°	540.3	556.6	590.9	620.3	635.0
62.5°	488.1	505.2	540.3	570.5	586.0
65°	435.8	452.2	488.9	521.5	533.8
67.5°	383.6	399.9	435.8	468.5	483.2
70°	329.7	348.5	383.6	417.9	430.9
72.5°	273.4	294.6	329.7	365.6	378.7
75°	221.2	241.6	279.1	312.6	327.3
77.5°	169.8	191.8	226.9	261.2	275.9
80°	120.8	142.0	177.9	210.6	226.1
82.5°	76.7	95.5	131.4	160.8	172.2
85°	39.2	55.5	82.4	92.2	97.9
87.5°	11.4	19.6	29.4	36.7	40.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587682

CATALOG NUMBER: 22CZSP-SB-42-L930-S

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	16.39	18.05	16.75	18.36	18.68	17.12	18.78	17.49	19.10	19.41
	3H	18.16	19.66	18.53	19.99	20.35	19.20	20.71	19.58	21.03	21.39
	4H	18.78	20.20	19.17	20.54	20.92	20.07	21.49	20.47	21.83	22.21
	6H	19.18	20.50	19.59	20.87	21.26	20.81	22.13	21.22	22.49	22.88
	8H	19.29	20.55	19.71	20.94	21.33	21.11	22.37	21.53	22.76	23.15
	12H	19.34	20.54	19.77	20.93	21.35	21.30	22.51	21.73	22.89	23.32
4H	2H	17.16	18.58	17.55	18.92	19.30	17.73	19.15	18.13	19.49	19.87
	3H	19.15	20.34	19.56	20.74	21.14	20.04	21.24	20.45	21.63	22.03
	4H	19.89	20.97	20.32	21.39	21.82	21.06	22.14	21.49	22.56	22.99
	6H	20.42	21.37	20.87	21.81	22.26	21.97	22.91	22.42	23.35	23.81
	8H	20.56	21.45	21.02	21.89	22.36	22.33	23.22	22.79	23.66	24.13
	12H	20.64	21.44	21.12	21.92	22.38	22.59	23.39	23.06	23.86	24.33
8H	4H	20.34	21.23	20.79	21.67	22.13	21.36	22.25	21.82	22.69	23.15
	6H	21.00	21.74	21.49	22.23	22.70	22.41	23.16	22.91	23.64	24.12
	8H	21.21	21.87	21.72	22.38	22.86	22.89	23.55	23.39	24.06	24.54
	12H	21.34	21.93	21.85	22.42	22.98	23.24	23.83	23.74	24.32	24.88
12H	4H	20.42	21.22	20.90	21.69	22.16	21.38	22.18	21.86	22.66	23.13
	6H	21.12	21.79	21.63	22.29	22.78	22.47	23.13	22.97	23.64	24.12
	8H	21.40	21.99	21.91	22.48	23.04	23.00	23.59	23.51	24.08	24.64