

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: P1587689

Luminaire Tested: 22CZSP-SB-42-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-42-L945
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

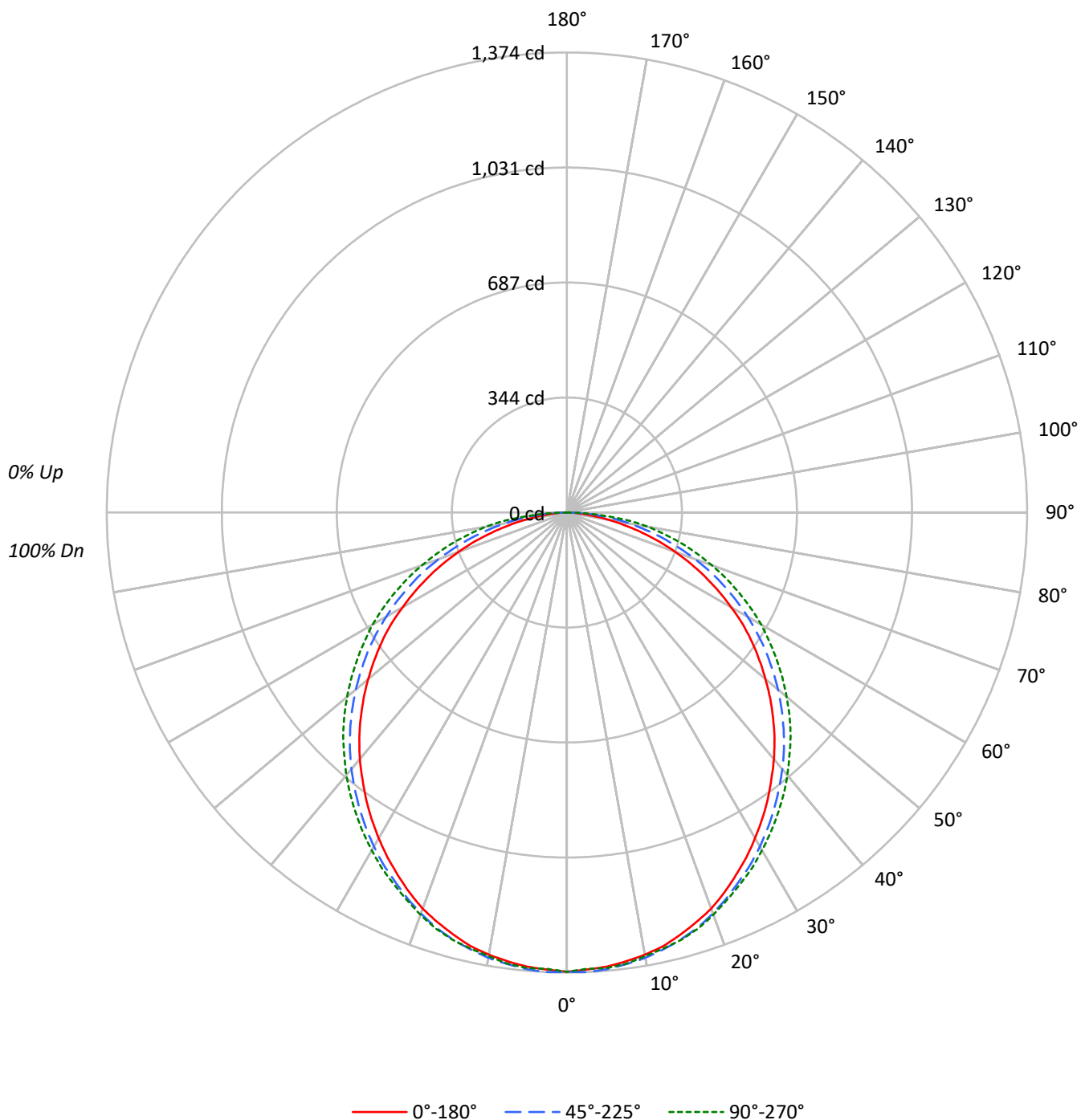
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4003.0 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 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: P1587689
CATALOG NUMBER: 22CZSP-SB-42-L945

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	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°	4295	4295	4295
5°	4280	4303	4293
10°	4265	4294	4278
15°	4232	4276	4282
20°	4195	4246	4260
25°	4127	4201	4230
30°	4062	4166	4212
35°	3997	4126	4197
40°	3931	4090	4187
45°	3857	4052	4183
50°	3772	4008	4173
55°	3686	3964	4172
60°	3550	3905	4197
65°	3384	3829	4200
70°	3157	3723	4211
75°	2808	3587	4284
80°	2306	3437	4445
85°	1523	3226	4017

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4553 cd/sqm

TEST NUMBER: P1587689

CATALOG NUMBER: 22CZSP-SB-42-L945

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	3.2
10°-20°	371.4	9.3
20°-30°	559.8	14.0
30°-40°	674.1	16.8
40°-50°	704.3	17.6
50°-60°	647.0	16.2
60°-70°	509.5	12.7
70°-80°	312.4	7.8
80°-90°	94.7	2.4
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°	1060.9	26.5
0°-40°	1735.0	43.3
0°-60°	3086.4	77.1
0°-90°	4003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4003.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1362	1364	1369	1367	1366	129
15°	1306	1311	1319	1324	1321	368
25°	1195	1202	1216	1228	1224	551
35°	1046	1059	1079	1099	1098	654
45°	871	890	915	940	945	672
55°	675	695	726	757	764	602
65°	457	480	517	552	567	451
75°	232	259	296	332	354	247
85°	42	63	90	100	112	54
90°	0	0	0	0	0	

TEST NUMBER: P1587689

CATALOG NUMBER: 22CZSP-SB-42-L945

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1371.7	1371.7	1371.7	1371.7	1371.7
2.5°	1366.6	1370.0	1374.2	1367.4	1364.0
5°	1361.5	1364.0	1369.1	1367.4	1365.7
7.5°	1352.2	1353.9	1360.7	1360.7	1359.0
10°	1341.2	1344.6	1350.5	1349.6	1345.4
12.5°	1326.8	1329.3	1336.1	1336.1	1333.5
15°	1305.6	1310.7	1319.1	1324.2	1320.8
17.5°	1283.6	1288.6	1299.7	1304.7	1303.0
20°	1259.0	1263.2	1274.2	1281.9	1278.5
22.5°	1228.5	1233.6	1246.3	1254.7	1251.4
25°	1194.6	1202.2	1215.8	1228.5	1224.2
27.5°	1160.7	1169.2	1186.1	1198.8	1197.1
30°	1123.4	1134.4	1152.2	1168.3	1164.9
32.5°	1085.3	1098.0	1116.7	1133.6	1132.7
35°	1045.5	1059.0	1079.4	1098.9	1098.0
37.5°	1003.1	1019.2	1040.4	1061.6	1062.4
40°	961.6	976.9	1000.6	1023.5	1024.3
42.5°	917.6	933.6	959.1	982.8	983.6
45°	871.0	889.6	915.0	940.4	944.7
47.5°	823.5	843.0	869.3	896.4	901.5
50°	774.4	794.7	822.7	851.5	856.6
52.5°	724.4	745.6	774.4	803.2	810.8
55°	675.2	694.7	726.1	757.4	764.2
57.5°	623.6	641.4	675.2	708.3	716.8
60°	566.8	588.8	623.6	656.6	670.2
62.5°	511.7	535.5	571.0	604.1	619.3
65°	456.7	480.4	516.8	551.5	566.8
67.5°	400.7	425.3	464.3	497.3	514.3
70°	344.8	369.4	406.7	442.3	460.0
72.5°	288.9	315.2	351.6	388.0	405.8
75°	232.1	259.3	296.5	332.1	354.1
77.5°	178.8	205.0	242.3	278.7	297.4
80°	127.9	154.2	190.6	227.1	246.5
82.5°	81.3	105.9	141.5	172.0	189.8
85°	42.4	62.7	89.8	100.0	111.8
87.5°	12.7	24.6	34.7	39.0	48.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587689

CATALOG NUMBER: 22CZSP-SB-42-L945

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	16.58	18.24	16.94	18.55	18.87	17.32	18.99	17.69	19.30	19.61
	3H	18.34	19.85	18.72	20.17	20.53	19.42	20.93	19.80	21.25	21.61
	4H	18.96	20.39	19.36	20.73	21.11	20.30	21.73	20.70	22.07	22.45
	6H	19.38	20.70	19.79	21.06	21.45	21.07	22.39	21.48	22.75	23.15
	8H	19.48	20.75	19.91	21.13	21.53	21.38	22.64	21.81	23.03	23.43
	12H	19.53	20.75	19.96	21.13	21.56	21.59	22.81	22.02	23.19	23.62
4H	2H	17.35	18.77	17.75	19.12	19.49	17.93	19.35	18.32	19.70	20.07
	3H	19.34	20.54	19.75	20.94	21.33	20.26	21.45	20.66	21.85	22.25
	4H	20.09	21.18	20.53	21.59	22.03	21.29	22.38	21.72	22.79	23.22
	6H	20.63	21.58	21.08	22.02	22.48	22.22	23.17	22.67	23.61	24.07
	8H	20.78	21.67	21.24	22.11	22.58	22.60	23.50	23.06	23.94	24.40
	12H	20.86	21.67	21.34	22.14	22.61	22.88	23.68	23.36	24.16	24.63
8H	4H	20.55	21.44	21.01	21.88	22.34	21.59	22.48	22.05	22.92	23.39
	6H	21.22	21.97	21.72	22.46	22.93	22.67	23.42	23.17	23.91	24.38
	8H	21.45	22.11	21.95	22.62	23.10	23.16	23.83	23.67	24.34	24.82
	12H	21.59	22.18	22.10	22.67	23.23	23.54	24.13	24.04	24.62	25.18
12H	4H	20.63	21.43	21.11	21.91	22.38	21.62	22.42	22.10	22.90	23.36
	6H	21.35	22.02	21.86	22.53	23.01	22.73	23.40	23.23	23.90	24.39
	8H	21.64	22.24	22.15	22.72	23.28	23.28	23.87	23.79	24.36	24.92