

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: P1587688

Luminaire Tested: 22CZSP-SB-42-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587688
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-L945-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

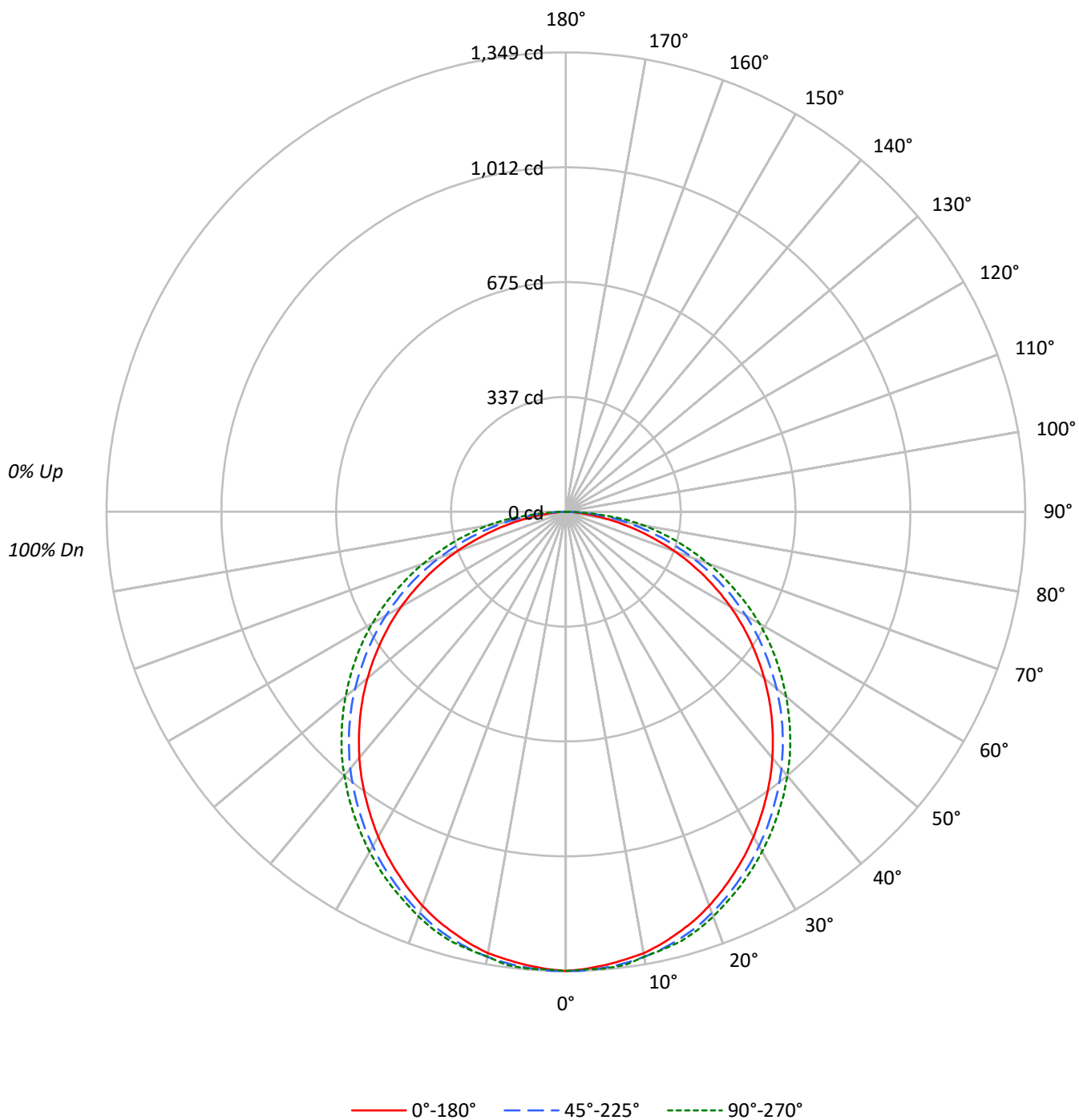
Lumens per Lamp: N/A
Luminaire Lumens: 3923.0 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

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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	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°	4223	4223	4223
5°	4199	4223	4231
10°	4186	4221	4218
15°	4148	4208	4232
20°	4103	4179	4215
25°	4044	4137	4190
30°	3985	4101	4168
35°	3920	4062	4149
40°	3857	4026	4136
45°	3786	3984	4126
50°	3704	3934	4115
55°	3612	3884	4110
60°	3499	3826	4112
65°	3339	3745	4089
70°	3121	3631	4080
75°	2767	3492	4094
80°	2252	3318	4216
85°	1455	3061	3640

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4273 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	3.3
10°-20°	365.5	9.3
20°-30°	551.0	14.0
30°-40°	663.0	16.9
40°-50°	691.6	17.6
50°-60°	633.9	16.2
60°-70°	497.8	12.7
70°-80°	303.0	7.7
80°-90°	89.6	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°	1044.1	26.6
0°-40°	1707.1	43.5
0°-60°	3032.6	77.3
0°-90°	3923.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3923.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1349	1349	1349	1349	1349	
5°	1336	1344	1344	1342	1346	127
15°	1279	1292	1298	1300	1306	361
25°	1170	1187	1198	1205	1213	539
35°	1025	1041	1062	1078	1085	642
45°	855	873	900	921	932	659
55°	662	678	711	740	753	591
65°	451	468	506	539	552	446
75°	229	250	289	323	338	242
85°	40	57	85	95	101	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1348.6	1348.6	1348.6	1348.6	1348.6
2.5°	1343.5	1350.3	1348.6	1342.7	1345.2
5°	1335.9	1344.4	1343.5	1341.8	1346.1
7.5°	1326.6	1335.9	1336.8	1336.8	1341.8
10°	1316.5	1325.8	1327.5	1325.0	1326.6
12.5°	1299.6	1310.6	1314.0	1314.0	1316.5
15°	1279.4	1292.0	1298.0	1299.6	1305.6
17.5°	1257.4	1271.0	1278.5	1282.8	1287.8
20°	1231.3	1245.6	1254.1	1259.1	1265.0
22.5°	1201.7	1217.8	1227.1	1232.1	1238.9
25°	1170.5	1186.6	1197.5	1205.1	1212.7
27.5°	1137.6	1152.8	1168.0	1177.3	1184.0
30°	1102.2	1118.2	1134.2	1146.0	1152.8
32.5°	1064.2	1081.1	1099.6	1112.3	1119.9
35°	1025.4	1041.4	1062.5	1077.7	1085.3
37.5°	985.7	1002.6	1024.5	1040.6	1049.8
40°	943.5	961.2	984.9	1002.6	1011.9
42.5°	899.6	916.5	942.7	962.9	973.9
45°	854.9	872.6	899.6	920.7	931.7
47.5°	808.5	825.4	854.9	879.4	888.7
50°	760.4	776.4	807.6	833.8	844.8
52.5°	711.4	728.3	759.5	787.4	799.2
55°	661.6	678.5	711.4	740.1	752.8
57.5°	611.0	627.9	661.6	691.2	706.4
60°	558.7	575.6	611.0	641.4	656.6
62.5°	504.7	522.4	558.7	589.9	605.9
65°	450.7	467.5	505.5	539.3	551.9
67.5°	396.6	413.5	450.7	484.4	499.6
70°	340.9	360.4	396.6	432.1	445.6
72.5°	282.7	304.7	340.9	378.1	391.6
75°	228.7	249.8	288.6	323.2	338.4
77.5°	175.5	198.3	234.6	270.1	285.2
80°	124.9	146.8	184.0	217.7	233.8
82.5°	79.3	98.7	135.9	166.3	178.1
85°	40.5	57.4	85.2	95.4	101.3
87.5°	11.8	20.3	30.4	38.0	42.2
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	16.50	18.16	16.87	18.48	18.79	17.24	18.90	17.60	19.21	19.53
	3H	18.27	19.78	18.65	20.10	20.46	19.32	20.82	19.70	21.15	21.51
	4H	18.89	20.31	19.29	20.66	21.03	20.18	21.60	20.58	21.95	22.33
	6H	19.30	20.62	19.71	20.98	21.37	20.93	22.25	21.34	22.61	23.00
	8H	19.40	20.66	19.83	21.05	21.45	21.22	22.48	21.65	22.87	23.27
	12H	19.45	20.66	19.88	21.04	21.47	21.42	22.63	21.85	23.01	23.44
4H	2H	17.27	18.69	17.67	19.04	19.41	17.84	19.26	18.24	19.61	19.99
	3H	19.26	20.46	19.67	20.86	21.26	20.16	21.35	20.57	21.75	22.15
	4H	20.01	21.09	20.44	21.50	21.94	21.18	22.26	21.61	22.67	23.11
	6H	20.53	21.48	20.99	21.92	22.38	22.08	23.03	22.53	23.47	23.92
	8H	20.68	21.57	21.14	22.01	22.47	22.45	23.34	22.91	23.78	24.24
	12H	20.76	21.56	21.24	22.03	22.50	22.70	23.50	23.18	23.98	24.45
8H	4H	20.45	21.34	20.91	21.78	22.25	21.47	22.36	21.93	22.80	23.27
	6H	21.12	21.86	21.61	22.34	22.82	22.53	23.27	23.02	23.76	24.23
	8H	21.32	21.99	21.83	22.49	22.98	23.00	23.67	23.51	24.17	24.66
	12H	21.46	22.05	21.97	22.54	23.10	23.35	23.94	23.86	24.43	24.99
12H	4H	20.53	21.33	21.01	21.81	22.28	21.50	22.30	21.98	22.77	23.24
	6H	21.24	21.91	21.75	22.41	22.90	22.58	23.25	23.09	23.75	24.24
	8H	21.52	22.11	22.02	22.60	23.15	23.12	23.71	23.62	24.20	24.76