

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: P1587768

Luminaire Tested: 22CZSP-SB-52-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587768
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-52-L945-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

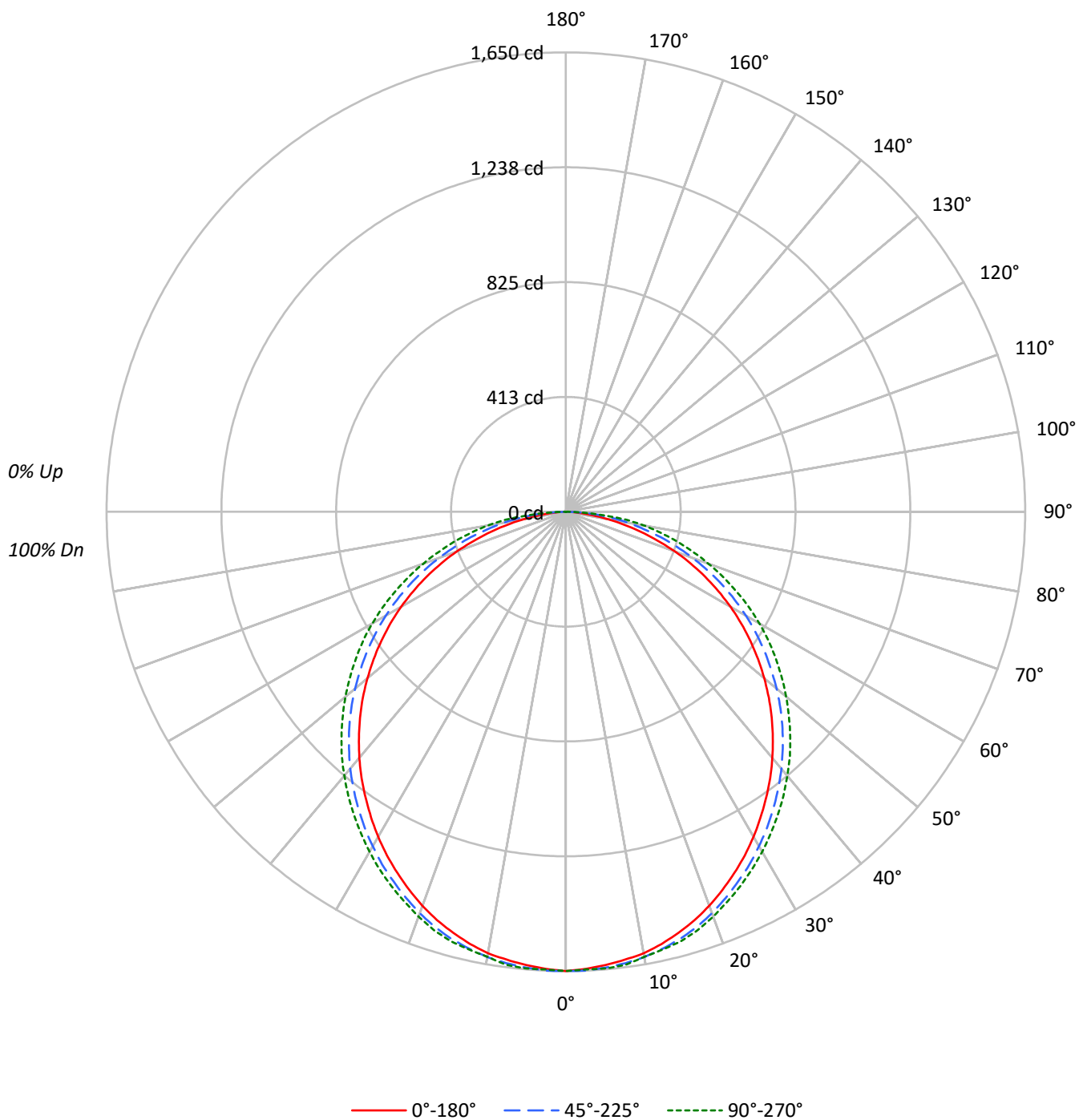
Lumens per Lamp: N/A
Luminaire Lumens: 4799.0 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.2
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°	5166	5166	5166
5°	5137	5166	5176
10°	5121	5163	5160
15°	5074	5147	5177
20°	5019	5112	5157
25°	4947	5061	5126
30°	4875	5017	5099
35°	4795	4969	5075
40°	4718	4925	5060
45°	4631	4873	5047
50°	4531	4813	5034
55°	4419	4751	5027
60°	4280	4681	5030
65°	4085	4582	5003
70°	3819	4442	4991
75°	3385	4272	5009
80°	2755	4059	5157
85°	1782	3747	4451

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5225 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	3.3
10°-20°	447.1	9.3
20°-30°	674.1	14.0
30°-40°	811.1	16.9
40°-50°	846.0	17.6
50°-60°	775.5	16.2
60°-70°	608.9	12.7
70°-80°	370.6	7.7
80°-90°	109.7	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°	1277.3	26.6
0°-40°	2088.3	43.5
0°-60°	3709.8	77.3
0°-90°	4799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4799.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1634	1645	1644	1642	1647	155
15°	1565	1581	1588	1590	1597	442
25°	1432	1452	1465	1474	1484	660
35°	1254	1274	1300	1318	1328	785
45°	1046	1068	1100	1126	1140	806
55°	809	830	870	905	921	723
65°	551	572	618	660	675	545
75°	280	306	353	395	414	297
85°	50	70	104	117	124	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1649.7	1649.7	1649.7	1649.7	1649.7
2.5°	1643.5	1651.8	1649.7	1642.5	1645.6
5°	1634.2	1644.6	1643.5	1641.5	1646.6
7.5°	1622.9	1634.2	1635.3	1635.3	1641.5
10°	1610.5	1621.9	1623.9	1620.8	1622.9
12.5°	1589.9	1603.3	1607.4	1607.4	1610.5
15°	1565.1	1580.6	1587.8	1589.9	1597.1
17.5°	1538.2	1554.8	1564.0	1569.2	1575.4
20°	1506.2	1523.8	1534.1	1540.3	1547.5
22.5°	1470.1	1489.7	1501.1	1507.3	1515.5
25°	1431.9	1451.5	1464.9	1474.2	1483.5
27.5°	1391.6	1410.2	1428.8	1440.2	1448.4
30°	1348.3	1367.9	1387.5	1402.0	1410.2
32.5°	1301.8	1322.5	1345.2	1360.7	1370.0
35°	1254.3	1273.9	1299.8	1318.3	1327.6
37.5°	1205.8	1226.5	1253.3	1272.9	1284.3
40°	1154.2	1175.9	1204.8	1226.5	1237.8
42.5°	1100.5	1121.2	1153.2	1177.9	1191.4
45°	1045.8	1067.5	1100.5	1126.3	1139.7
47.5°	989.0	1009.7	1045.8	1075.7	1087.1
50°	930.2	949.8	988.0	1020.0	1033.4
52.5°	870.3	890.9	929.1	963.2	977.7
55°	809.4	830.0	870.3	905.4	920.9
57.5°	747.4	768.1	809.4	845.5	864.1
60°	683.4	704.1	747.4	784.6	803.2
62.5°	617.4	639.0	683.4	721.6	741.2
65°	551.3	571.9	618.4	659.7	675.2
67.5°	485.2	505.9	551.3	592.6	611.2
70°	417.1	440.8	485.2	528.6	545.1
72.5°	345.8	372.7	417.1	462.5	479.0
75°	279.8	305.6	353.1	395.4	414.0
77.5°	214.7	242.6	287.0	330.4	348.9
80°	152.8	179.6	225.1	266.4	286.0
82.5°	97.0	120.8	166.2	203.4	217.8
85°	49.6	70.2	104.3	116.7	123.9
87.5°	14.5	24.8	37.2	46.5	51.6
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	17.20	18.86	17.57	19.18	19.49	17.94	19.60	18.30	19.91	20.23
	3H	18.97	20.48	19.35	20.80	21.16	20.02	21.52	20.40	21.85	22.21
	4H	19.59	21.01	19.99	21.36	21.73	20.88	22.30	21.28	22.65	23.03
	6H	20.00	21.32	20.41	21.68	22.07	21.63	22.95	22.04	23.31	23.70
	8H	20.10	21.36	20.53	21.75	22.15	21.92	23.18	22.35	23.57	23.97
	12H	20.15	21.36	20.58	21.74	22.17	22.12	23.33	22.55	23.71	24.14
4H	2H	17.97	19.39	18.37	19.74	20.11	18.54	19.96	18.94	20.31	20.69
	3H	19.96	21.16	20.37	21.56	21.96	20.86	22.05	21.27	22.45	22.85
	4H	20.71	21.79	21.14	22.20	22.64	21.88	22.96	22.31	23.37	23.81
	6H	21.24	22.18	21.69	22.62	23.08	22.78	23.73	23.23	24.17	24.62
	8H	21.38	22.27	21.84	22.71	23.17	23.15	24.04	23.61	24.48	24.94
	12H	21.46	22.26	21.94	22.73	23.20	23.40	24.20	23.88	24.68	25.15
8H	4H	21.15	22.04	21.61	22.48	22.95	22.17	23.06	22.63	23.50	23.97
	6H	21.82	22.56	22.31	23.04	23.52	23.23	23.97	23.72	24.46	24.93
	8H	22.02	22.69	22.53	23.20	23.68	23.70	24.37	24.21	24.87	25.36
	12H	22.16	22.75	22.67	23.24	23.80	24.06	24.64	24.56	25.13	25.69
12H	4H	21.23	22.03	21.71	22.51	22.98	22.20	23.00	22.68	23.47	23.94
	6H	21.94	22.61	22.45	23.11	23.60	23.28	23.95	23.79	24.45	24.94
	8H	22.22	22.81	22.72	23.30	23.85	23.82	24.41	24.32	24.90	25.46