

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: P1587769

Luminaire Tested: 22CZSP-SB-52-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587769
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-52-L945
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

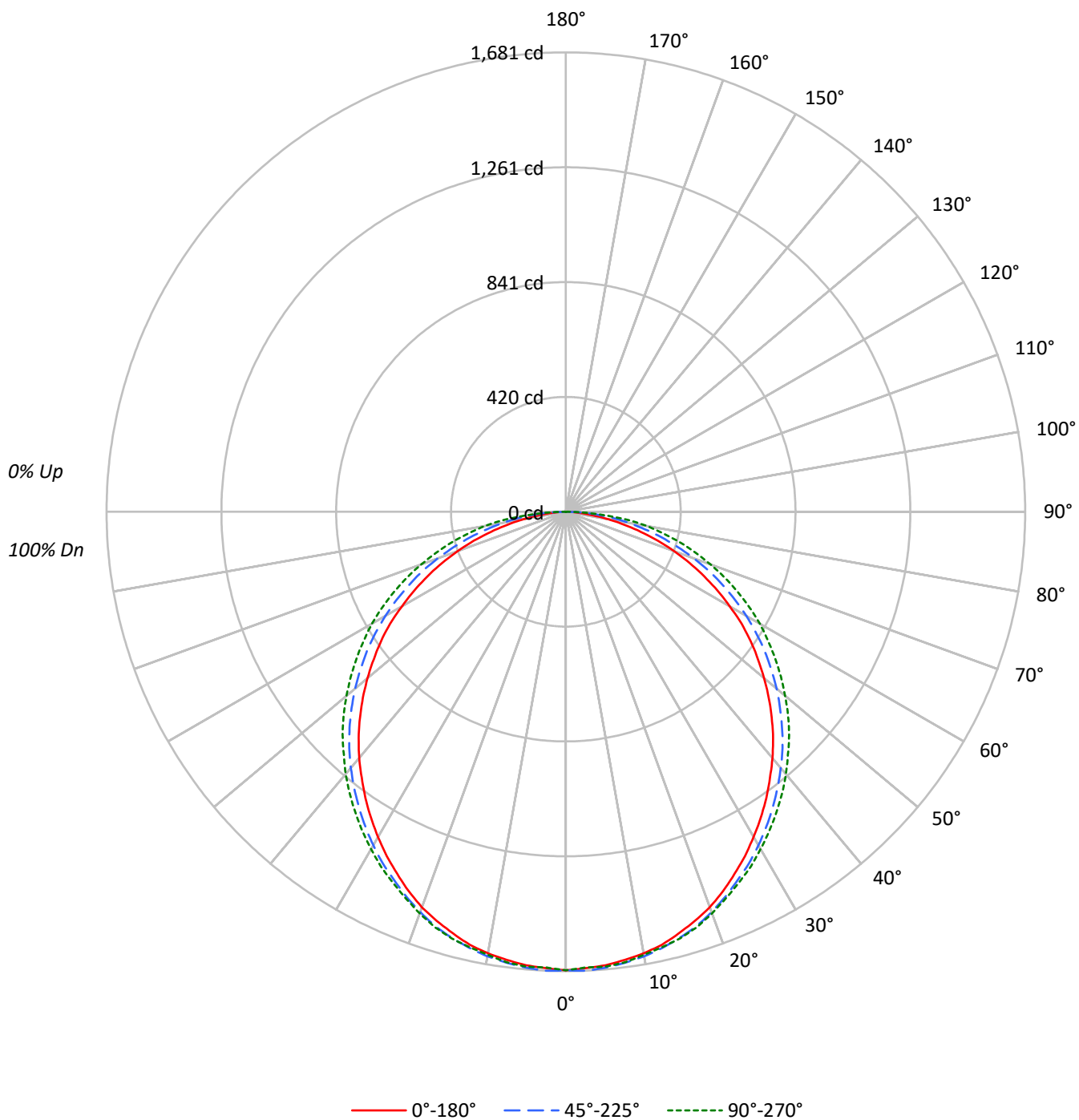
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4897.0 lumens
Efficiency: N/A
Efficacy: 131.6 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): 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	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°	5254	5254	5254
5°	5235	5265	5252
10°	5217	5253	5233
15°	5178	5231	5238
20°	5132	5194	5212
25°	5049	5139	5175
30°	4969	5097	5153
35°	4889	5047	5135
40°	4809	5003	5122
45°	4718	4957	5117
50°	4615	4903	5104
55°	4509	4849	5104
60°	4343	4777	5134
65°	4139	4684	5138
70°	3862	4555	5153
75°	3436	4389	5241
80°	2822	4205	5439
85°	1861	3948	4915

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5570 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	3.2
10°-20°	454.3	9.3
20°-30°	684.8	14.0
30°-40°	824.7	16.8
40°-50°	861.6	17.6
50°-60°	791.5	16.2
60°-70°	623.3	12.7
70°-80°	382.2	7.8
80°-90°	115.9	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°	1297.9	26.5
0°-40°	2122.5	43.3
0°-60°	3775.7	77.1
0°-90°	4897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1678	1678	1678	1678	1678	
5°	1666	1669	1675	1673	1671	158
15°	1597	1603	1614	1620	1616	451
25°	1461	1471	1487	1503	1498	674
35°	1279	1296	1320	1344	1343	800
45°	1066	1088	1119	1150	1156	822
55°	826	850	888	927	935	737
65°	559	588	632	675	693	552
75°	284	317	363	406	433	302
85°	52	77	110	122	137	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1678.0	1678.0	1678.0	1678.0	1678.0
2.5°	1671.8	1675.9	1681.1	1672.8	1668.7
5°	1665.6	1668.7	1674.9	1672.8	1670.8
7.5°	1654.2	1656.2	1664.5	1664.5	1662.5
10°	1640.7	1644.8	1652.1	1651.1	1645.9
12.5°	1623.1	1626.2	1634.5	1634.5	1631.4
15°	1597.2	1603.4	1613.7	1620.0	1615.8
17.5°	1570.2	1576.4	1589.9	1596.1	1594.1
20°	1540.2	1545.3	1558.8	1568.1	1564.0
22.5°	1502.8	1509.1	1524.6	1535.0	1530.8
25°	1461.4	1470.7	1487.3	1502.8	1497.7
27.5°	1419.9	1430.3	1451.0	1466.6	1464.5
30°	1374.3	1387.8	1409.6	1429.3	1425.1
32.5°	1327.7	1343.2	1366.0	1386.8	1385.7
35°	1279.0	1295.6	1320.4	1344.3	1343.2
37.5°	1227.2	1246.8	1272.8	1298.7	1299.7
40°	1176.4	1195.0	1224.0	1252.0	1253.1
42.5°	1122.5	1142.2	1173.3	1202.3	1203.3
45°	1065.5	1088.3	1119.4	1150.5	1155.6
47.5°	1007.4	1031.3	1063.4	1096.6	1102.8
50°	947.3	972.2	1006.4	1041.6	1047.8
52.5°	886.2	912.1	947.3	982.6	991.9
55°	826.0	849.9	888.2	926.6	934.9
57.5°	762.8	784.6	826.0	866.5	876.8
60°	693.4	720.3	762.8	803.2	819.8
62.5°	626.0	655.0	698.6	739.0	757.6
65°	558.6	587.7	632.2	674.7	693.4
67.5°	490.2	520.3	568.0	608.4	629.1
70°	421.8	451.9	497.5	541.0	562.8
72.5°	353.4	385.6	430.1	474.7	496.5
75°	284.0	317.2	362.8	406.3	433.2
77.5°	218.7	250.8	296.4	341.0	363.8
80°	156.5	188.6	233.2	277.8	301.6
82.5°	99.5	129.6	173.1	210.4	232.2
85°	51.8	76.7	109.9	122.3	136.8
87.5°	15.5	30.1	42.5	47.7	59.1
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	17.28	18.94	17.64	19.25	19.57	18.02	19.69	18.39	20.00	20.31
	3H	19.04	20.55	19.42	20.87	21.23	20.12	21.63	20.50	21.95	22.31
	4H	19.66	21.09	20.06	21.43	21.81	21.00	22.43	21.40	22.77	23.15
	6H	20.08	21.40	20.49	21.76	22.15	21.77	23.09	22.18	23.46	23.85
	8H	20.18	21.45	20.61	21.83	22.23	22.08	23.35	22.51	23.73	24.13
	12H	20.23	21.45	20.66	21.83	22.26	22.30	23.51	22.72	23.89	24.32
4H	2H	18.05	19.47	18.45	19.82	20.19	18.63	20.05	19.03	20.40	20.77
	3H	20.04	21.24	20.45	21.64	22.04	20.96	22.15	21.36	22.55	22.95
	4H	20.79	21.88	21.23	22.29	22.73	21.99	23.08	22.42	23.49	23.92
	6H	21.33	22.28	21.78	22.72	23.18	22.92	23.87	23.37	24.31	24.77
	8H	21.48	22.37	21.94	22.81	23.28	23.31	24.20	23.76	24.64	25.10
	12H	21.56	22.37	22.04	22.84	23.31	23.58	24.38	24.06	24.86	25.33
8H	4H	21.25	22.14	21.71	22.58	23.04	22.29	23.18	22.75	23.62	24.09
	6H	21.92	22.67	22.42	23.16	23.63	23.37	24.12	23.87	24.61	25.08
	8H	22.15	22.81	22.65	23.32	23.80	23.86	24.53	24.37	25.04	25.52
	12H	22.29	22.88	22.80	23.37	23.93	24.24	24.83	24.74	25.32	25.88
12H	4H	21.33	22.13	21.81	22.61	23.08	22.32	23.12	22.80	23.60	24.06
	6H	22.05	22.72	22.56	23.23	23.71	23.43	24.10	23.93	24.60	25.09
	8H	22.34	22.94	22.85	23.43	23.98	23.98	24.57	24.49	25.06	25.62