

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: P1586485

Luminaire Tested: 22CZSP-52-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-772-10)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-52-L935
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

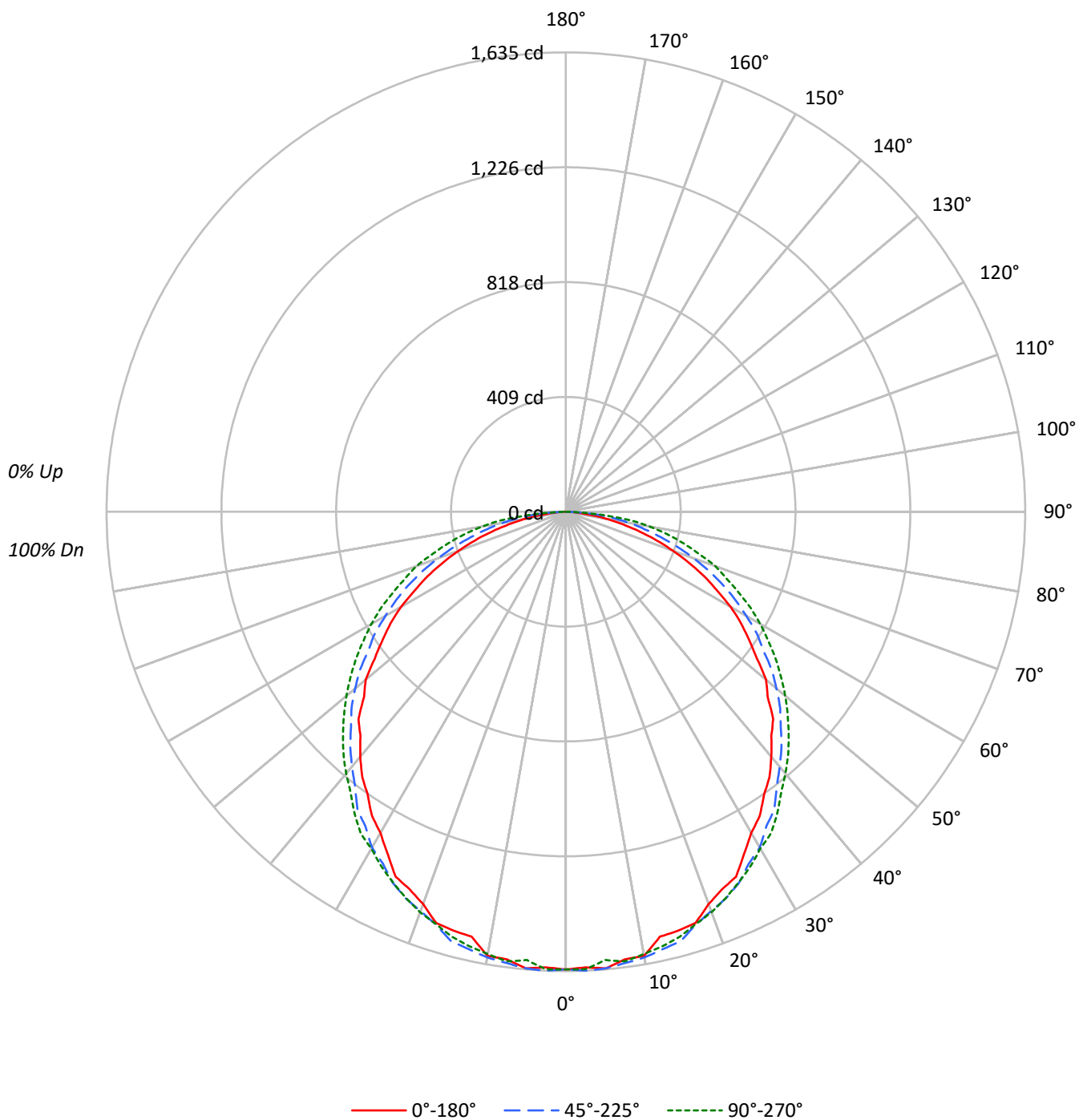
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4756.0 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
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

TEST NUMBER: P1586485
CATALOG NUMBER: 22CZSP-52-L935

Luminous Intensity Polar Plot



TEST NUMBER: P1586485

CATALOG NUMBER: 22CZSP-52-L935

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	31	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5101	5101	5101
5°	5127	5127	5034
10°	5102	5121	5083
15°	5004	5126	5077
20°	4951	5039	5053
25°	4952	5036	5029
30°	4771	4991	5006
35°	4699	4943	5013
40°	4652	4839	4971
45°	4622	4788	4968
50°	4531	4768	4965
55°	4347	4679	4978
60°	4243	4643	5006
65°	4028	4577	5020
70°	3714	4429	5191
75°	3300	4233	5240
80°	2743	4151	5431
85°	1678	3719	4592

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5621 cd/sqm

TEST NUMBER: P1586485

CATALOG NUMBER: 22CZSP-52-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	3.2
10°-20°	441.4	9.3
20°-30°	665.8	14.0
30°-40°	799.6	16.8
40°-50°	834.7	17.6
50°-60°	768.6	16.2
60°-70°	606.9	12.8
70°-80°	373.7	7.9
80°-90°	110.8	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°	1261.6	26.5
0°-40°	2061.3	43.3
0°-60°	3664.5	77.1
0°-90°	4756.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4756.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1629	1629	1629	1629	1629	
5°	1631	1615	1631	1633	1602	154
15°	1544	1565	1581	1574	1566	436
25°	1433	1443	1458	1451	1456	653
35°	1229	1252	1293	1299	1312	772
45°	1044	1052	1081	1104	1122	798
55°	796	818	857	896	912	715
65°	544	563	618	662	678	535
75°	273	299	350	406	433	290
85°	47	67	104	123	128	63
90°	0	0	0	0	0	

TEST NUMBER: P1586485

CATALOG NUMBER: 22CZSP-52-L935

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1628.9	1628.9	1628.9	1628.9	1628.9
2.5°	1622.8	1640.1	1635.0	1638.1	1629.9
5°	1631.0	1614.7	1631.0	1633.0	1601.5
7.5°	1606.6	1608.6	1619.8	1622.8	1613.7
10°	1604.6	1610.7	1610.7	1600.5	1598.5
12.5°	1548.8	1579.2	1594.4	1601.5	1584.3
15°	1543.7	1565.0	1581.3	1574.2	1566.0
17.5°	1534.6	1528.5	1539.7	1547.8	1538.7
20°	1485.9	1496.1	1512.3	1514.3	1516.3
22.5°	1453.5	1456.5	1489.0	1492.0	1487.9
25°	1433.2	1443.3	1457.5	1451.4	1455.5
27.5°	1373.3	1397.7	1410.9	1423.0	1423.0
30°	1319.6	1348.0	1380.4	1384.5	1384.5
32.5°	1284.1	1303.3	1327.7	1335.8	1358.1
35°	1229.3	1251.6	1293.2	1299.3	1311.5
37.5°	1190.8	1213.1	1232.3	1253.6	1258.7
40°	1138.0	1161.3	1183.7	1208.0	1216.1
42.5°	1082.2	1106.6	1136.0	1161.3	1171.5
45°	1043.7	1051.8	1081.2	1104.5	1121.8
47.5°	973.7	997.0	1034.6	1064.0	1071.1
50°	930.1	939.2	978.8	1018.3	1019.3
52.5°	857.1	884.4	923.0	960.5	965.6
55°	796.2	817.5	857.1	895.6	911.8
57.5°	739.4	755.6	806.4	844.9	854.0
60°	677.5	694.8	741.4	786.1	799.3
62.5°	605.5	629.9	680.6	723.2	741.4
65°	543.7	562.9	617.7	662.3	677.5
67.5°	473.7	500.0	551.8	601.5	617.7
70°	405.7	432.1	483.8	535.5	567.0
72.5°	338.8	366.2	417.9	477.7	495.0
75°	272.8	299.2	349.9	405.7	433.1
77.5°	207.9	236.3	288.1	343.8	370.2
80°	152.1	174.5	230.2	278.9	301.2
82.5°	94.3	117.7	169.4	215.0	234.3
85°	46.7	66.9	103.5	122.7	127.8
87.5°	14.2	21.3	32.5	42.6	48.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586485
CATALOG NUMBER: 22CZSP-52-L935

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	17.13	18.79	17.49	19.10	19.42	17.95	19.61	18.31	19.93	20.24
	3H	18.88	20.39	19.26	20.71	21.07	20.10	21.61	20.47	21.93	22.29
	4H	19.49	20.92	19.89	21.26	21.64	21.01	22.43	21.41	22.78	23.16
	6H	19.90	21.22	20.31	21.58	21.97	21.81	23.13	22.22	23.50	23.89
	8H	20.00	21.26	20.42	21.65	22.05	22.13	23.40	22.56	23.79	24.18
	12H	20.05	21.26	20.47	21.64	22.07	22.34	23.55	22.77	23.93	24.36
4H	2H	17.92	19.34	18.32	19.69	20.06	18.56	19.98	18.95	20.33	20.70
	3H	19.89	21.09	20.30	21.49	21.89	20.94	22.13	21.34	22.53	22.93
	4H	20.62	21.71	21.05	22.12	22.56	22.00	23.09	22.43	23.50	23.94
	6H	21.14	22.10	21.60	22.54	22.99	22.97	23.92	23.42	24.36	24.82
	8H	21.28	22.18	21.74	22.62	23.08	23.37	24.26	23.83	24.70	25.16
	12H	21.36	22.16	21.84	22.64	23.11	23.63	24.44	24.11	24.91	25.38
8H	4H	21.09	21.98	21.55	22.42	22.89	22.29	23.18	22.75	23.63	24.09
	6H	21.74	22.49	22.24	22.98	23.45	23.42	24.16	23.91	24.65	25.12
	8H	21.95	22.62	22.46	23.12	23.61	23.92	24.59	24.43	25.10	25.58
	12H	22.08	22.67	22.58	23.16	23.72	24.29	24.89	24.80	25.37	25.93
12H	4H	21.18	21.99	21.66	22.46	22.93	22.32	23.12	22.80	23.59	24.06
	6H	21.88	22.55	22.39	23.06	23.54	23.47	24.14	23.97	24.64	25.13
	8H	22.16	22.75	22.66	23.24	23.80	24.04	24.63	24.54	25.12	25.68