

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: P1586490

Luminaire Tested: 22CZSP-52-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-52-L950-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

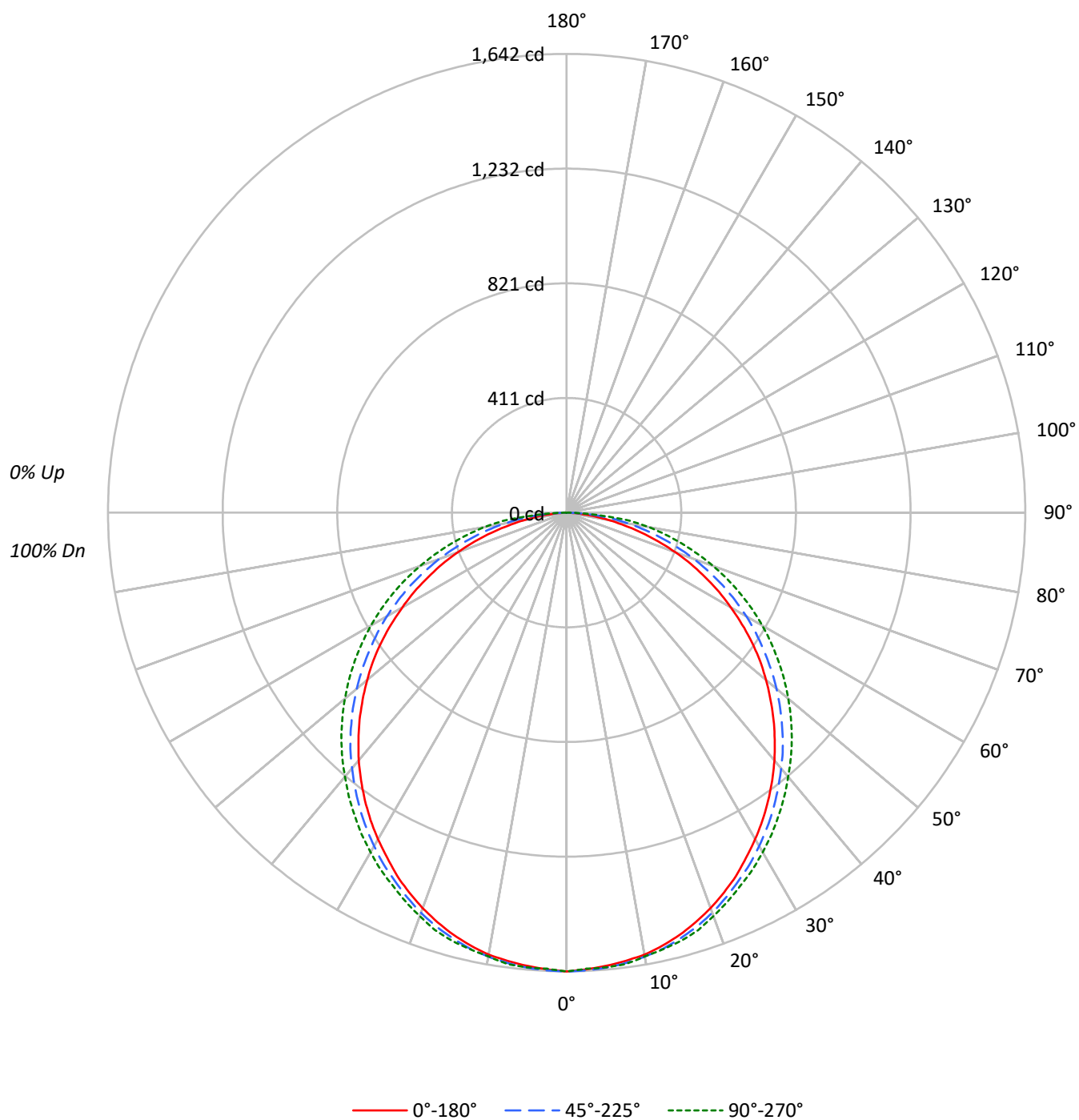
Lumens per Lamp: N/A
Luminaire Lumens: 4795.0 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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: P1586490

CATALOG NUMBER: 22CZSP-52-L950-S

Luminous Intensity Polar Plot



TEST NUMBER: P1586490

CATALOG NUMBER: 22CZSP-52-L950-S

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	69
3	89	79	70	64	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°	5143	5143	5143
5°	5119	5140	5136
10°	5108	5132	5129
15°	5072	5113	5144
20°	5021	5080	5122
25°	4958	5027	5089
30°	4881	4984	5075
35°	4810	4935	5060
40°	4731	4886	5045
45°	4640	4836	5051
50°	4541	4777	5049
55°	4423	4710	5055
60°	4257	4659	5067
65°	4062	4569	5083
70°	3786	4440	5105
75°	3373	4265	5155
80°	2790	4061	5408
85°	1814	3668	4725

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5578 cd/sqm

TEST NUMBER: P1586490

CATALOG NUMBER: 22CZSP-52-L950-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.3	3.2
10°-20°	444.8	9.3
20°-30°	670.8	14.0
30°-40°	807.9	16.8
40°-50°	843.8	17.6
50°-60°	774.9	16.2
60°-70°	610.3	12.7
70°-80°	374.4	7.8
80°-90°	112.7	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°	1270.9	26.5
0°-40°	2078.8	43.4
0°-60°	3697.5	77.1
0°-90°	4795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1642	1642	1642	1642	1642	
5°	1629	1631	1635	1640	1634	155
15°	1565	1568	1577	1587	1587	441
25°	1435	1438	1455	1473	1473	661
35°	1258	1265	1291	1317	1324	787
45°	1048	1060	1092	1130	1140	808
55°	810	825	863	911	926	723
65°	548	567	617	668	686	542
75°	279	301	352	408	426	296
85°	50	69	102	129	132	66
90°	0	0	0	0	0	

TEST NUMBER: P1586490

CATALOG NUMBER: 22CZSP-52-L950-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1642.4	1642.4	1642.4	1642.4	1642.4
2.5°	1636.1	1639.3	1640.3	1641.4	1634.0
5°	1628.7	1630.8	1635.1	1640.3	1634.0
7.5°	1618.2	1620.3	1625.6	1632.9	1629.8
10°	1606.6	1607.7	1614.0	1619.3	1613.0
12.5°	1587.7	1590.9	1598.2	1602.4	1600.3
15°	1564.6	1567.7	1577.2	1586.7	1586.7
17.5°	1537.2	1541.4	1553.0	1565.6	1566.7
20°	1506.7	1509.8	1524.6	1537.2	1537.2
22.5°	1472.0	1476.2	1490.9	1504.6	1506.7
25°	1435.1	1438.3	1455.1	1473.0	1473.0
27.5°	1392.0	1398.3	1419.4	1437.2	1441.5
30°	1349.9	1355.2	1378.3	1400.4	1403.6
32.5°	1305.7	1312.0	1336.2	1360.4	1365.7
35°	1258.4	1264.7	1291.0	1317.3	1323.6
37.5°	1208.9	1216.3	1243.6	1274.2	1280.5
40°	1157.4	1165.8	1195.2	1227.9	1234.2
42.5°	1102.7	1114.2	1145.8	1179.5	1188.9
45°	1047.9	1059.5	1092.1	1130.0	1140.5
47.5°	990.1	1003.8	1037.4	1077.4	1089.0
50°	932.2	945.9	980.6	1023.7	1036.4
52.5°	873.3	887.0	922.7	968.0	981.7
55°	810.2	824.9	862.8	911.2	925.9
57.5°	744.9	763.9	803.8	853.3	868.0
60°	679.7	698.6	743.9	792.3	809.1
62.5°	615.5	633.4	679.7	731.2	749.1
65°	548.2	567.1	616.6	668.1	686.0
67.5°	481.9	500.8	550.3	603.9	622.9
70°	413.5	434.5	485.0	538.7	557.6
72.5°	345.1	367.2	418.8	473.5	491.4
75°	278.8	300.9	352.5	408.2	426.1
77.5°	213.6	237.8	288.3	345.1	361.9
80°	154.7	177.8	225.2	280.9	299.9
82.5°	98.9	118.9	166.2	218.8	232.5
85°	50.5	69.4	102.1	129.4	131.5
87.5°	15.8	22.1	33.7	50.5	51.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586490

CATALOG NUMBER: 22CZSP-52-L950-S

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	17.17	18.83	17.53	19.14	19.46	18.00	19.66	18.36	19.97	20.29
	3H	18.92	20.43	19.30	20.76	21.12	20.11	21.62	20.49	21.95	22.31
	4H	19.54	20.96	19.94	21.31	21.69	21.00	22.43	21.40	22.77	23.15
	6H	19.95	21.27	20.36	21.64	22.03	21.78	23.11	22.19	23.47	23.86
	8H	20.06	21.32	20.48	21.71	22.11	22.10	23.37	22.53	23.76	24.15
	12H	20.11	21.32	20.54	21.70	22.13	22.32	23.53	22.74	23.91	24.34
4H	2H	17.94	19.36	18.34	19.71	20.08	18.59	20.01	18.98	20.36	20.73
	3H	19.92	21.11	20.33	21.51	21.91	20.94	22.14	21.35	22.54	22.93
	4H	20.65	21.74	21.08	22.15	22.59	21.99	23.08	22.42	23.49	23.93
	6H	21.18	22.13	21.63	22.57	23.03	22.95	23.90	23.40	24.34	24.79
	8H	21.33	22.22	21.79	22.66	23.13	23.34	24.23	23.80	24.68	25.14
	12H	21.41	22.22	21.89	22.69	23.16	23.62	24.42	24.10	24.90	25.37
8H	4H	21.11	22.00	21.57	22.45	22.91	22.28	23.17	22.74	23.62	24.08
	6H	21.77	22.52	22.27	23.00	23.48	23.39	24.14	23.89	24.62	25.10
	8H	21.98	22.65	22.49	23.16	23.64	23.91	24.57	24.41	25.08	25.56
	12H	22.12	22.72	22.63	23.21	23.76	24.29	24.88	24.80	25.37	25.93
12H	4H	21.20	22.01	21.68	22.48	22.95	22.31	23.11	22.79	23.58	24.05
	6H	21.91	22.58	22.41	23.08	23.56	23.44	24.11	23.95	24.62	25.10
	8H	22.18	22.78	22.69	23.27	23.82	24.02	24.61	24.52	25.10	25.66