

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: P1584370

Luminaire Tested: 14CZSP-52-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-52-L950-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

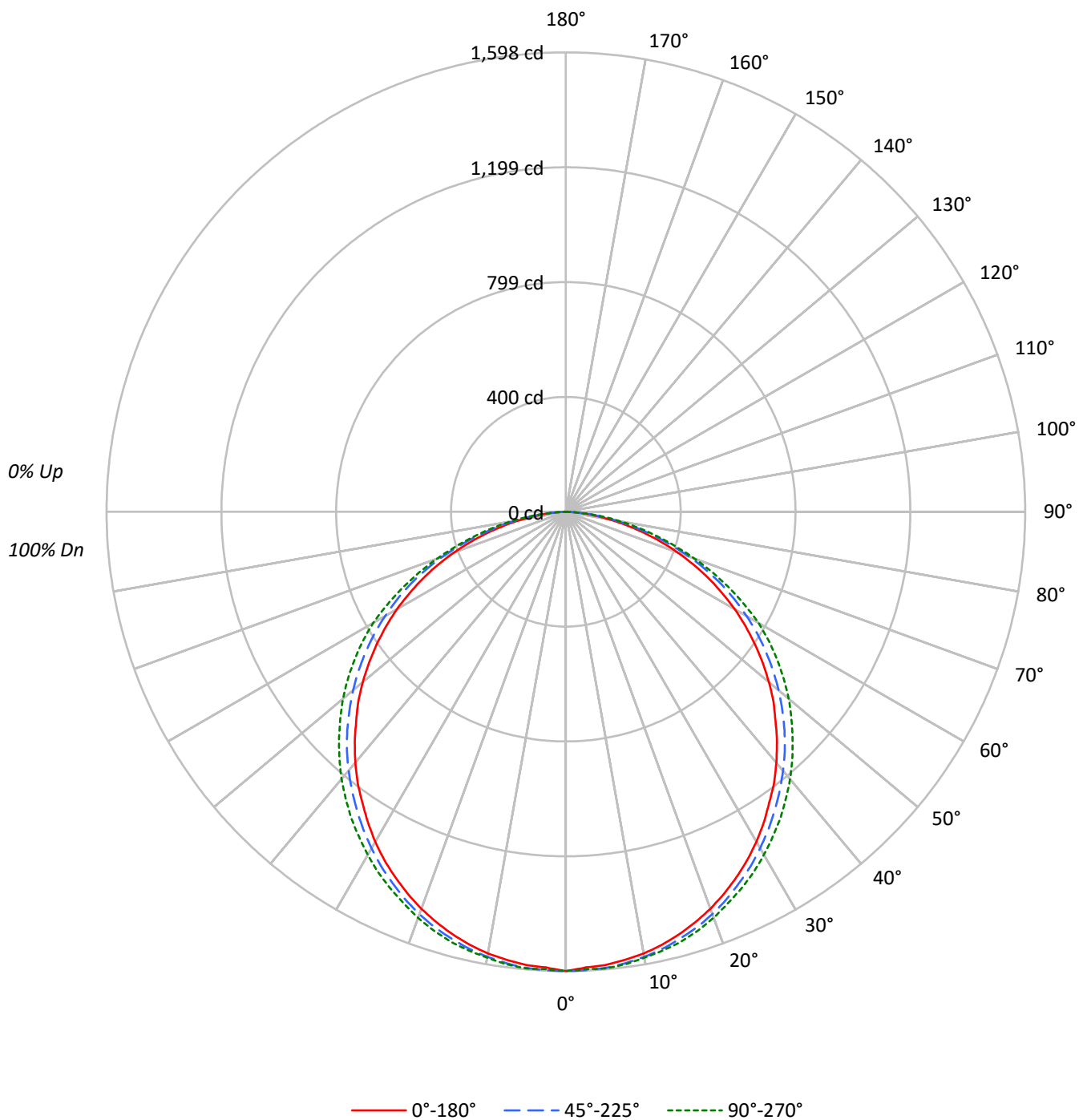
Lumens per Lamp: N/A
Luminaire Lumens: 4619.0 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.9
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

TEST NUMBER: P1584370

CATALOG NUMBER: 14CZSP-52-L950-S

Luminous Intensity Polar Plot



TEST NUMBER: P1584370

CATALOG NUMBER: 14CZSP-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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5384	5384	5384
5°	5354	5388	5393
10°	5339	5378	5390
15°	5308	5362	5400
20°	5271	5341	5390
25°	5217	5301	5374
30°	5158	5259	5362
35°	5076	5213	5353
40°	5009	5171	5338
45°	4915	5126	5317
50°	4833	5064	5307
55°	4717	4992	5272
60°	4573	4893	5219
65°	4369	4759	5003
70°	4073	4494	4695
75°	3638	4054	4285
80°	2982	3417	3747
85°	1999	2498	2787

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5317 cd/sqm

TEST NUMBER: P1584370

CATALOG NUMBER: 14CZSP-52-L950-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.3	3.3
10°-20°	433.8	9.4
20°-30°	656.9	14.2
30°-40°	793.2	17.2
40°-50°	829.0	17.9
50°-60°	759.6	16.4
60°-70°	586.4	12.7
70°-80°	329.9	7.1
80°-90°	78.9	1.7
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°	1242.0	26.9
0°-40°	2035.2	44.1
0°-60°	3623.9	78.5
0°-90°	4619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4619.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1598	1598	1598	1598	1598	
5°	1583	1594	1593	1594	1594	150
15°	1522	1534	1537	1543	1548	429
25°	1403	1416	1426	1433	1445	647
35°	1234	1250	1267	1284	1301	773
45°	1031	1052	1076	1097	1116	797
55°	803	824	850	876	897	717
65°	548	572	597	621	628	541
75°	279	305	311	324	329	296
85°	52	59	65	71	72	66
90°	0	0	0	0	0	

TEST NUMBER: P1584370

CATALOG NUMBER: 14CZSP-52-L950-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1597.7	1597.7	1597.7	1597.7	1597.7
2.5°	1586.8	1599.1	1596.4	1600.4	1593.0
5°	1582.8	1594.3	1593.0	1594.3	1594.3
7.5°	1572.6	1584.8	1584.1	1586.2	1587.5
10°	1560.3	1571.9	1571.9	1573.9	1575.3
12.5°	1543.3	1555.6	1556.9	1560.3	1563.0
15°	1521.6	1533.8	1537.2	1543.3	1548.1
17.5°	1497.1	1510.0	1515.5	1521.6	1527.7
20°	1469.9	1481.5	1489.6	1494.4	1503.2
22.5°	1437.9	1450.9	1459.7	1464.5	1474.0
25°	1403.3	1415.5	1425.7	1433.2	1445.4
27.5°	1366.6	1378.8	1391.0	1399.9	1414.1
30°	1325.8	1338.7	1351.6	1365.2	1378.1
32.5°	1281.6	1296.5	1310.8	1325.8	1340.0
35°	1234.0	1249.6	1267.3	1284.3	1301.3
37.5°	1189.8	1204.1	1222.4	1240.8	1257.8
40°	1138.8	1154.4	1175.5	1195.9	1213.6
42.5°	1087.1	1104.1	1127.2	1147.0	1166.0
45°	1031.4	1051.8	1075.6	1097.3	1115.7
47.5°	979.7	997.4	1021.2	1045.0	1064.0
50°	921.9	941.6	966.1	991.3	1012.3
52.5°	863.4	883.8	909.0	934.2	955.9
55°	802.9	824.0	849.8	876.4	897.4
57.5°	741.1	763.5	790.0	816.5	837.6
60°	678.5	701.0	726.1	755.3	774.4
62.5°	613.3	638.4	662.2	689.4	701.0
65°	548.0	571.8	596.9	620.7	627.5
67.5°	481.4	505.8	528.3	543.9	552.7
70°	413.4	439.9	456.2	471.2	476.6
72.5°	346.1	372.6	382.1	396.4	401.8
75°	279.4	305.3	311.4	324.3	329.1
77.5°	214.8	238.6	240.7	255.6	259.7
80°	153.7	172.7	176.1	190.4	193.1
82.5°	98.6	112.2	116.9	129.2	133.3
85°	51.7	59.1	64.6	70.7	72.1
87.5°	17.0	21.1	17.7	18.4	17.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584370

CATALOG NUMBER: 14CZSP-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	17.56	19.21	17.93	19.53	19.84	18.10	19.75	18.47	20.06	20.38
	3H	19.34	20.83	19.71	21.16	21.52	19.96	21.45	20.33	21.78	22.14
	4H	19.96	21.37	20.36	21.72	22.09	20.63	22.03	21.02	22.38	22.76
	6H	20.37	21.68	20.78	22.04	22.43	21.10	22.41	21.51	22.77	23.16
	8H	20.48	21.72	20.90	22.11	22.51	21.25	22.50	21.67	22.88	23.28
	12H	20.52	21.72	20.95	22.10	22.53	21.33	22.53	21.76	22.91	23.34
4H	2H	18.29	19.69	18.68	20.04	20.41	18.71	20.11	19.10	20.46	20.84
	3H	20.28	21.46	20.69	21.86	22.26	20.78	21.96	21.19	22.36	22.76
	4H	21.04	22.11	21.47	22.52	22.95	21.58	22.64	22.01	23.06	23.49
	6H	21.57	22.50	22.02	22.94	23.39	22.18	23.11	22.63	23.55	24.01
	8H	21.70	22.58	22.16	23.02	23.48	22.37	23.24	22.83	23.68	24.15
	12H	21.78	22.57	22.26	23.04	23.51	22.49	23.28	22.97	23.75	24.22
8H	4H	21.37	22.25	21.83	22.69	23.15	21.85	22.73	22.31	23.17	23.63
	6H	22.01	22.74	22.51	23.23	23.70	22.56	23.29	23.06	23.78	24.25
	8H	22.21	22.87	22.72	23.37	23.86	22.82	23.47	23.33	23.98	24.46
	12H	22.34	22.92	22.85	23.41	23.97	23.00	23.58	23.51	24.07	24.63
12H	4H	21.41	22.20	21.89	22.67	23.14	21.88	22.66	22.35	23.14	23.60
	6H	22.07	22.72	22.58	23.23	23.71	22.60	23.25	23.11	23.76	24.24
	8H	22.32	22.90	22.83	23.39	23.95	22.91	23.48	23.41	23.97	24.53