

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: P1586488

Luminaire Tested: 22CZSP-52-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586488
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-L945-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

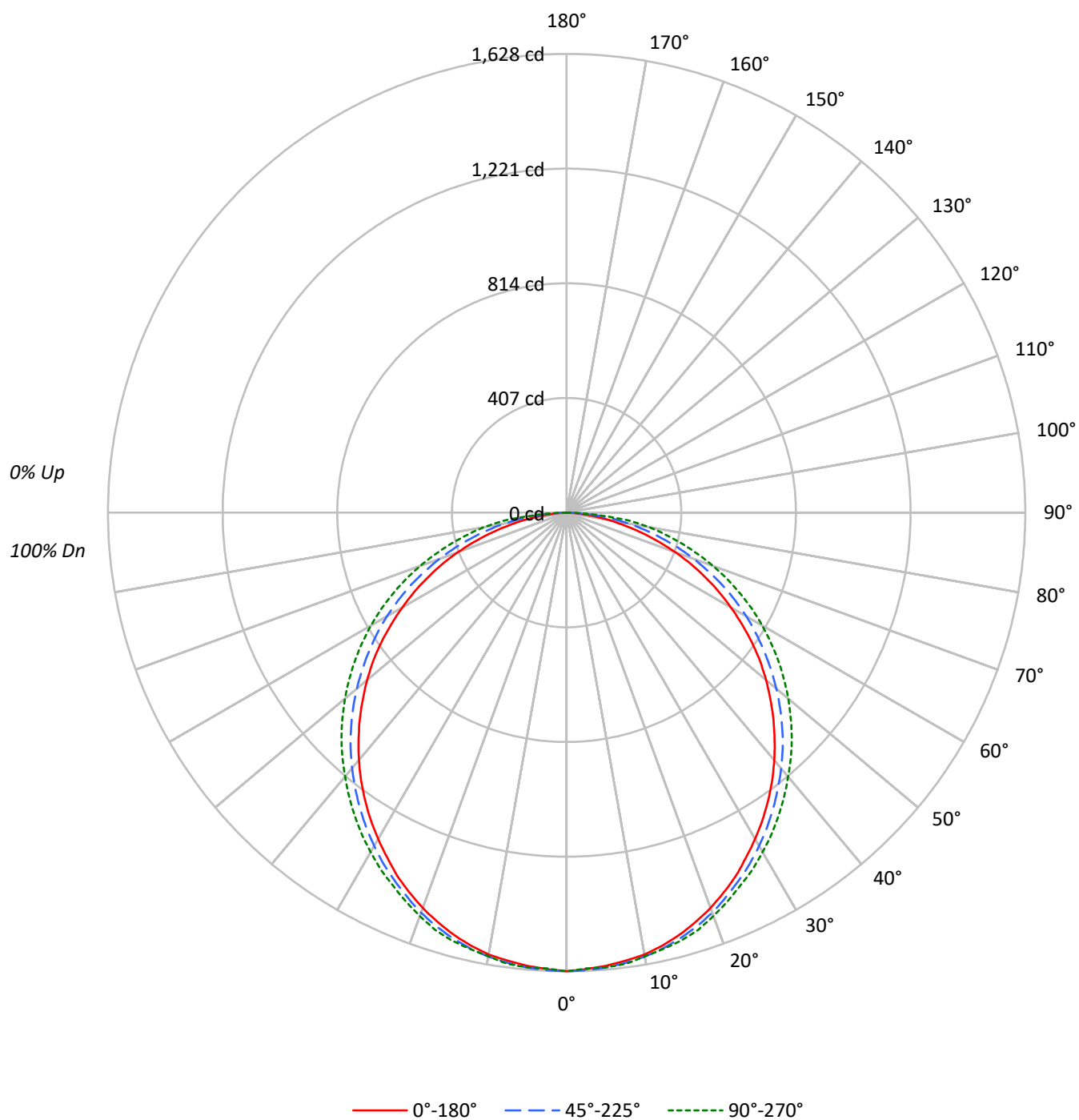
Lumens per Lamp: N/A
Luminaire Lumens: 4752.0 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

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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	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°	5097	5097	5097
5°	5074	5093	5090
10°	5063	5086	5083
15°	5026	5067	5097
20°	4976	5035	5076
25°	4914	4983	5044
30°	4837	4939	5030
35°	4767	4891	5014
40°	4689	4842	5000
45°	4599	4793	5005
50°	4501	4734	5003
55°	4383	4668	5009
60°	4219	4617	5022
65°	4025	4527	5038
70°	3752	4401	5059
75°	3343	4226	5109
80°	2764	4023	5359
85°	1800	3632	4681

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5527 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	3.2
10°-20°	440.8	9.3
20°-30°	664.8	14.0
30°-40°	800.7	16.8
40°-50°	836.2	17.6
50°-60°	768.0	16.2
60°-70°	604.9	12.7
70°-80°	371.1	7.8
80°-90°	111.7	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°	1259.5	26.5
0°-40°	2060.2	43.4
0°-60°	3664.4	77.1
0°-90°	4752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1614	1616	1620	1626	1619	153
15°	1550	1554	1563	1572	1572	437
25°	1422	1425	1442	1460	1460	655
35°	1247	1253	1279	1306	1312	780
45°	1038	1050	1082	1120	1130	801
55°	803	818	855	903	918	717
65°	543	562	611	662	680	537
75°	276	298	349	405	422	293
85°	50	69	101	128	130	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1627.7	1627.7	1627.7	1627.7	1627.7
2.5°	1621.4	1624.6	1625.6	1626.6	1619.3
5°	1614.1	1616.2	1620.4	1625.6	1619.3
7.5°	1603.7	1605.8	1611.0	1618.3	1615.2
10°	1592.2	1593.3	1599.5	1604.7	1598.5
12.5°	1573.5	1576.6	1583.9	1588.1	1586.0
15°	1550.5	1553.7	1563.0	1572.4	1572.4
17.5°	1523.4	1527.6	1539.1	1551.6	1552.6
20°	1493.2	1496.3	1510.9	1523.4	1523.4
22.5°	1458.8	1462.9	1477.5	1491.1	1493.2
25°	1422.3	1425.4	1442.1	1459.8	1459.8
27.5°	1379.5	1385.8	1406.6	1424.4	1428.5
30°	1337.8	1343.0	1366.0	1387.9	1391.0
32.5°	1294.0	1300.3	1324.3	1348.2	1353.5
35°	1247.1	1253.4	1279.4	1305.5	1311.7
37.5°	1198.1	1205.4	1232.5	1262.7	1269.0
40°	1147.0	1155.3	1184.5	1216.9	1223.1
42.5°	1092.8	1104.2	1135.5	1168.9	1178.3
45°	1038.5	1050.0	1082.3	1119.9	1130.3
47.5°	981.2	994.8	1028.1	1067.7	1079.2
50°	923.9	937.4	971.8	1014.6	1027.1
52.5°	865.5	879.0	914.5	959.3	972.9
55°	802.9	817.5	855.0	903.0	917.6
57.5°	738.2	757.0	796.6	845.6	860.2
60°	673.6	692.4	737.2	785.2	801.9
62.5°	610.0	627.7	673.6	724.7	742.4
65°	543.3	562.0	611.0	662.1	679.9
67.5°	477.6	496.3	545.3	598.5	617.3
70°	409.8	430.6	480.7	533.9	552.6
72.5°	342.0	363.9	415.0	469.2	487.0
75°	276.3	298.2	349.3	404.6	422.3
77.5°	211.7	235.7	285.7	342.0	358.7
80°	153.3	176.2	223.1	278.4	297.2
82.5°	98.0	117.8	164.7	216.9	230.4
85°	50.1	68.8	101.1	128.3	130.3
87.5°	15.6	21.9	33.4	50.1	51.1
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	17.14	18.80	17.50	19.11	19.43	17.97	19.63	18.33	19.94	20.26
	3H	18.89	20.40	19.27	20.73	21.08	20.08	21.59	20.46	21.92	22.28
	4H	19.51	20.93	19.91	21.28	21.65	20.97	22.39	21.37	22.74	23.12
	6H	19.92	21.24	20.33	21.61	22.00	21.75	23.07	22.16	23.44	23.83
	8H	20.03	21.29	20.45	21.68	22.08	22.07	23.34	22.50	23.72	24.12
	12H	20.08	21.29	20.51	21.67	22.10	22.28	23.49	22.71	23.88	24.30
4H	2H	17.91	19.33	18.31	19.68	20.05	18.55	19.98	18.95	20.32	20.70
	3H	19.89	21.08	20.29	21.48	21.88	20.91	22.11	21.32	22.50	22.90
	4H	20.62	21.71	21.05	22.12	22.56	21.96	23.05	22.39	23.46	23.90
	6H	21.15	22.10	21.60	22.54	23.00	22.91	23.87	23.37	24.31	24.76
	8H	21.30	22.19	21.76	22.63	23.09	23.31	24.20	23.77	24.64	25.11
	12H	21.38	22.18	21.86	22.66	23.13	23.59	24.39	24.07	24.87	25.33
8H	4H	21.08	21.97	21.54	22.41	22.88	22.25	23.14	22.71	23.58	24.05
	6H	21.74	22.49	22.23	22.97	23.45	23.36	24.11	23.85	24.59	25.07
	8H	21.95	22.62	22.46	23.13	23.61	23.87	24.54	24.38	25.05	25.53
	12H	22.09	22.68	22.60	23.17	23.73	24.26	24.85	24.77	25.34	25.90
12H	4H	21.17	21.97	21.65	22.45	22.92	22.28	23.08	22.75	23.55	24.02
	6H	21.87	22.54	22.38	23.05	23.53	23.41	24.08	23.92	24.58	25.07
	8H	22.15	22.74	22.66	23.23	23.79	23.99	24.58	24.49	25.07	25.63