

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: P1586484

Luminaire Tested: 22CZSP-52-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586484
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-L935-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

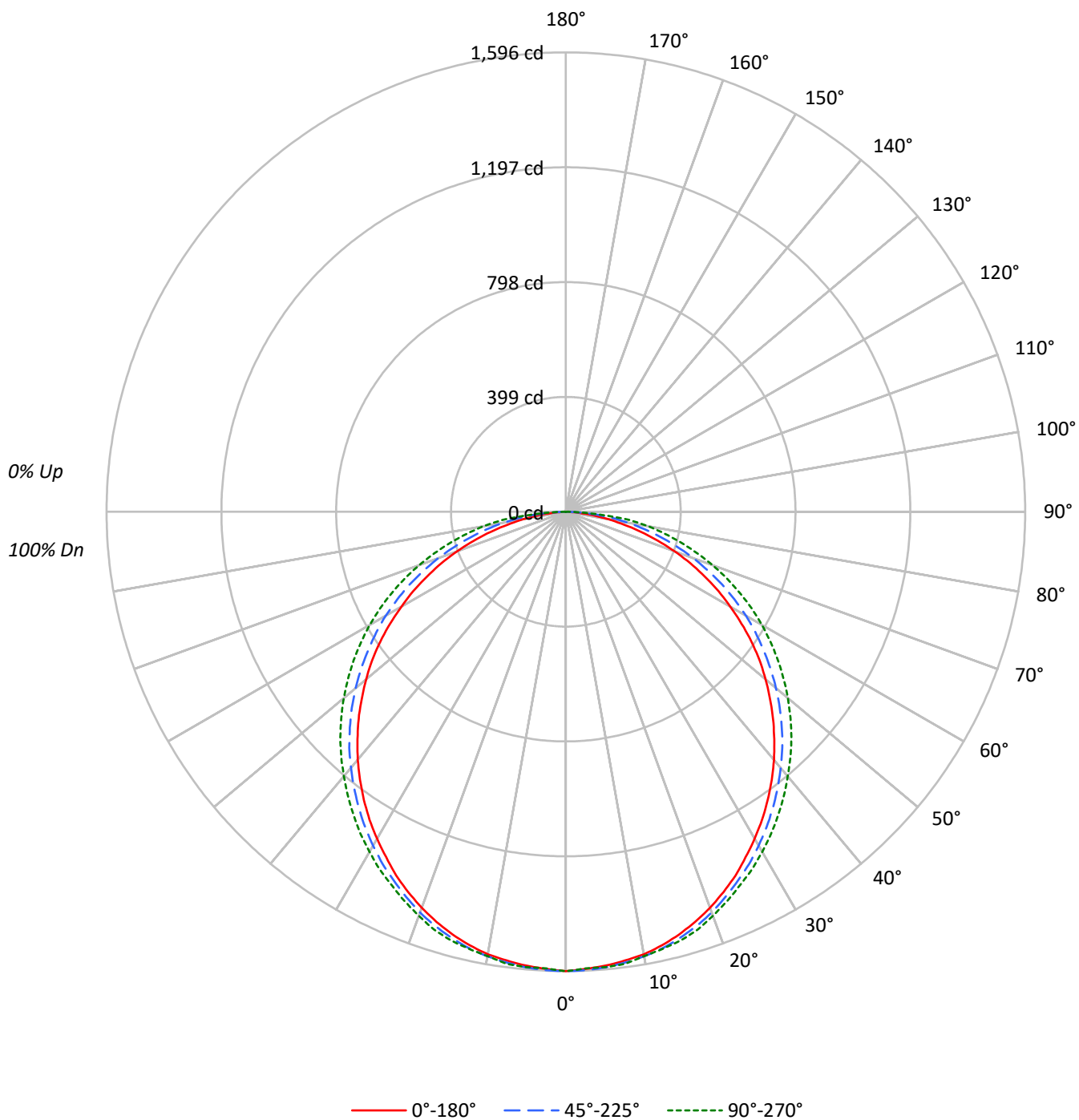
Lumens per Lamp: N/A
Luminaire Lumens: 4660.0 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	4998	4998	4998
5°	4976	4995	4992
10°	4965	4988	4984
15°	4929	4969	4999
20°	4879	4937	4978
25°	4819	4886	4946
30°	4743	4843	4932
35°	4675	4796	4917
40°	4598	4748	4903
45°	4510	4700	4908
50°	4414	4643	4907
55°	4299	4578	4912
60°	4137	4527	4924
65°	3947	4440	4940
70°	3680	4316	4961
75°	3279	4144	5010
80°	2710	3946	5255
85°	1764	3564	4592

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5422 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	3.2
10°-20°	432.3	9.3
20°-30°	651.9	14.0
30°-40°	785.2	16.8
40°-50°	820.0	17.6
50°-60°	753.1	16.2
60°-70°	593.2	12.7
70°-80°	363.9	7.8
80°-90°	109.5	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°	1235.1	26.5
0°-40°	2020.3	43.4
0°-60°	3593.4	77.1
0°-90°	4660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1596	1596	1596	1596	1596	
5°	1583	1585	1589	1594	1588	150
15°	1520	1524	1533	1542	1542	429
25°	1395	1398	1414	1432	1432	642
35°	1223	1229	1255	1280	1286	765
45°	1018	1030	1061	1098	1108	785
55°	787	802	838	886	900	703
65°	533	551	599	649	667	527
75°	271	292	342	397	414	287
85°	49	68	99	126	128	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1596.2	1596.2	1596.2	1596.2	1596.2
2.5°	1590.0	1593.1	1594.1	1595.2	1588.0
5°	1582.9	1584.9	1589.0	1594.1	1588.0
7.5°	1572.7	1574.7	1579.8	1587.0	1583.9
10°	1561.4	1562.4	1568.6	1573.7	1567.5
12.5°	1543.0	1546.1	1553.2	1557.3	1555.3
15°	1520.5	1523.6	1532.8	1542.0	1542.0
17.5°	1493.9	1498.0	1509.3	1521.5	1522.6
20°	1464.3	1467.3	1481.7	1493.9	1493.9
22.5°	1430.5	1434.6	1448.9	1462.2	1464.3
25°	1394.7	1397.8	1414.2	1431.5	1431.5
27.5°	1352.8	1358.9	1379.4	1396.8	1400.9
30°	1311.9	1317.0	1339.5	1361.0	1364.1
32.5°	1269.0	1275.1	1298.6	1322.1	1327.2
35°	1222.9	1229.1	1254.6	1280.2	1286.3
37.5°	1174.9	1182.0	1208.6	1238.3	1244.4
40°	1124.8	1133.0	1161.6	1193.3	1199.4
42.5°	1071.6	1082.9	1113.5	1146.3	1155.5
45°	1018.4	1029.7	1061.4	1098.2	1108.4
47.5°	962.2	975.5	1008.2	1047.1	1058.3
50°	906.0	919.3	953.0	994.9	1007.2
52.5°	848.7	862.0	896.8	940.7	954.0
55°	787.4	801.7	838.5	885.5	899.8
57.5°	724.0	742.4	781.2	829.3	843.6
60°	660.6	679.0	722.9	770.0	786.3
62.5°	598.2	615.6	660.6	710.7	728.0
65°	532.7	551.1	599.2	649.3	666.7
67.5°	468.3	486.7	534.8	586.9	605.3
70°	401.9	422.3	471.4	523.5	541.9
72.5°	335.4	356.9	407.0	460.1	477.5
75°	271.0	292.4	342.5	396.7	414.1
77.5°	207.6	231.1	280.2	335.4	351.8
80°	150.3	172.8	218.8	273.0	291.4
82.5°	96.1	115.5	161.6	212.7	226.0
85°	49.1	67.5	99.2	125.8	127.8
87.5°	15.3	21.5	32.7	49.1	50.1
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	17.07	18.73	17.43	19.05	19.36	17.90	19.56	18.26	19.88	20.19
	3H	18.82	20.33	19.20	20.66	21.02	20.02	21.52	20.39	21.85	22.21
	4H	19.44	20.87	19.84	21.21	21.59	20.90	22.33	21.30	22.67	23.05
	6H	19.85	21.17	20.26	21.54	21.93	21.69	23.01	22.10	23.37	23.76
	8H	19.96	21.22	20.39	21.61	22.01	22.01	23.27	22.43	23.66	24.05
	12H	20.01	21.22	20.44	21.61	22.03	22.22	23.43	22.65	23.81	24.24
4H	2H	17.84	19.26	18.24	19.61	19.98	18.49	19.91	18.88	20.26	20.63
	3H	19.82	21.02	20.23	21.41	21.81	20.84	22.04	21.25	22.44	22.84
	4H	20.55	21.64	20.98	22.05	22.49	21.89	22.98	22.32	23.39	23.83
	6H	21.08	22.04	21.54	22.47	22.93	22.85	23.80	23.30	24.24	24.69
	8H	21.23	22.12	21.69	22.56	23.03	23.24	24.14	23.70	24.58	25.04
	12H	21.31	22.12	21.79	22.59	23.06	23.52	24.32	24.00	24.80	25.27
8H	4H	21.01	21.91	21.47	22.35	22.81	22.18	23.07	22.64	23.52	23.98
	6H	21.67	22.42	22.17	22.91	23.38	23.29	24.04	23.79	24.53	25.00
	8H	21.89	22.55	22.39	23.06	23.54	23.81	24.47	24.31	24.98	25.46
	12H	22.02	22.62	22.53	23.11	23.66	24.19	24.78	24.70	25.27	25.83
12H	4H	21.10	21.91	21.58	22.38	22.85	22.21	23.01	22.69	23.48	23.95
	6H	21.81	22.48	22.31	22.98	23.47	23.34	24.01	23.85	24.52	25.00
	8H	22.08	22.68	22.59	23.17	23.72	23.92	24.51	24.43	25.00	25.56