

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: P1586487

Luminaire Tested: 22CZSP-52-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586487
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-L940
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

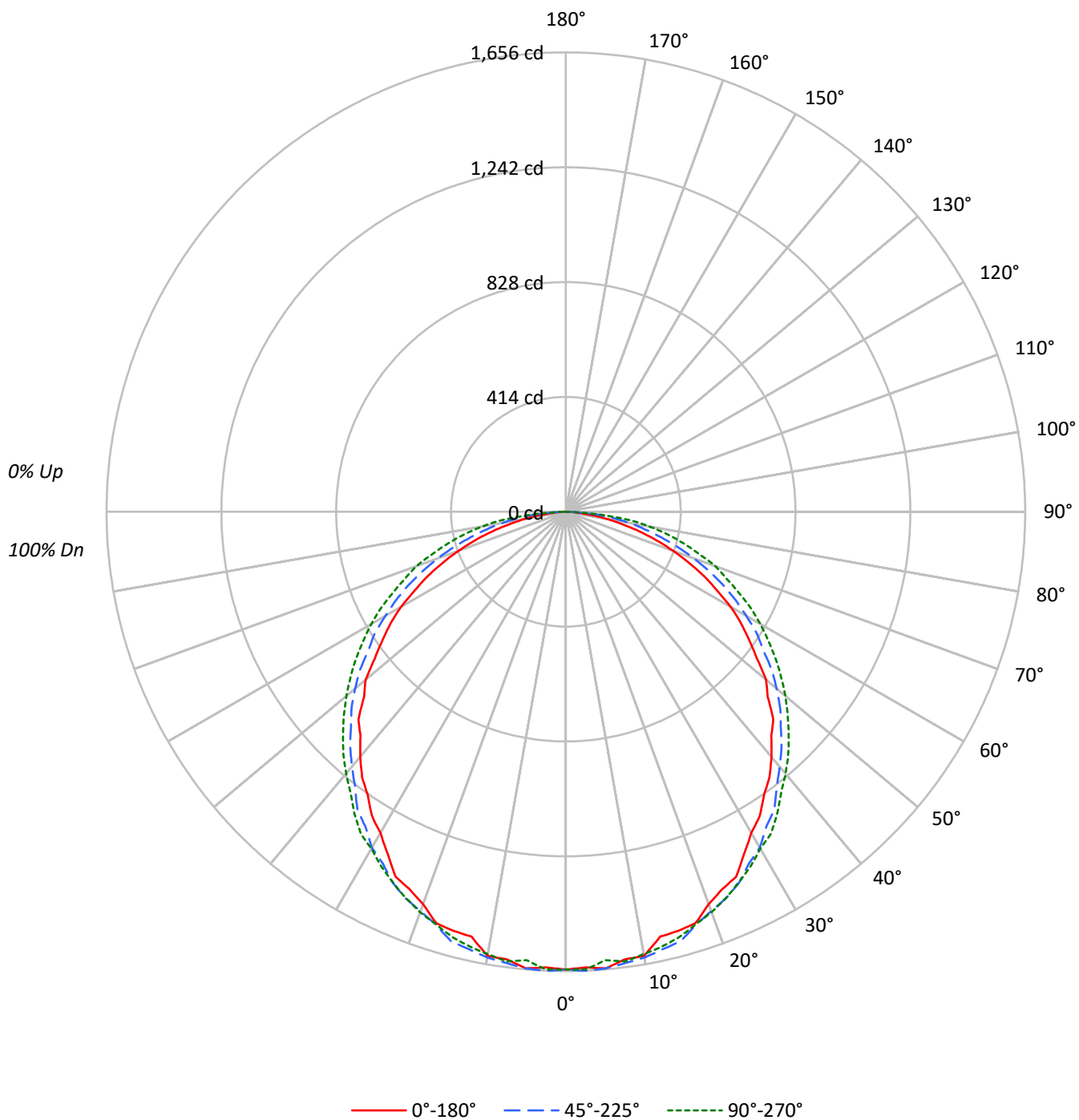
Lumens per Lamp: N/A
Luminaire Lumens: 4818.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

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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	68
3	89	79	70	63	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	31	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°	5167	5167	5167
5°	5193	5193	5100
10°	5168	5188	5149
15°	5070	5193	5143
20°	5016	5105	5119
25°	5016	5101	5094
30°	4834	5056	5071
35°	4760	5008	5079
40°	4713	4902	5036
45°	4682	4850	5032
50°	4590	4830	5030
55°	4403	4740	5043
60°	4299	4704	5071
65°	4080	4636	5086
70°	3763	4487	5259
75°	3344	4289	5308
80°	2779	4205	5504
85°	1699	3765	4653

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5695 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	3.2
10°-20°	447.1	9.3
20°-30°	674.4	14.0
30°-40°	810.1	16.8
40°-50°	845.6	17.6
50°-60°	778.6	16.2
60°-70°	614.8	12.8
70°-80°	378.6	7.9
80°-90°	112.3	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°	1278.1	26.5
0°-40°	2088.1	43.3
0°-60°	3712.3	77.1
0°-90°	4818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4818.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1652	1636	1652	1654	1622	156
15°	1564	1585	1602	1595	1586	442
25°	1452	1462	1476	1470	1474	662
35°	1245	1268	1310	1316	1329	783
45°	1057	1066	1095	1119	1136	808
55°	807	828	868	907	924	724
65°	551	570	626	671	686	542
75°	276	303	354	411	439	293
85°	47	68	105	124	130	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1650.2	1650.2	1650.2	1650.2	1650.2
2.5°	1644.0	1661.5	1656.3	1659.4	1651.2
5°	1652.2	1635.8	1652.2	1654.3	1622.4
7.5°	1627.6	1629.6	1640.9	1644.0	1634.8
10°	1625.5	1631.7	1631.7	1621.4	1619.3
12.5°	1569.0	1599.8	1615.2	1622.4	1605.0
15°	1563.9	1585.4	1601.9	1594.7	1586.5
17.5°	1554.6	1548.4	1559.7	1568.0	1558.7
20°	1505.3	1515.6	1532.0	1534.1	1536.1
22.5°	1472.4	1475.5	1508.4	1511.5	1507.3
25°	1451.9	1462.1	1476.5	1470.4	1474.5
27.5°	1391.2	1415.9	1429.3	1441.6	1441.6
30°	1336.8	1365.5	1398.4	1402.5	1402.5
32.5°	1300.8	1320.3	1345.0	1353.2	1375.8
35°	1245.3	1267.9	1310.1	1316.2	1328.6
37.5°	1206.3	1228.9	1248.4	1270.0	1275.1
40°	1152.9	1176.5	1199.1	1223.8	1232.0
42.5°	1096.3	1121.0	1150.8	1176.5	1186.8
45°	1057.3	1065.5	1095.3	1118.9	1136.4
47.5°	986.4	1010.0	1048.0	1077.8	1085.0
50°	942.2	951.5	991.5	1031.6	1032.6
52.5°	868.2	896.0	935.0	973.0	978.2
55°	806.6	828.2	868.2	907.3	923.7
57.5°	749.0	765.5	816.9	855.9	865.2
60°	686.4	703.8	751.1	796.3	809.7
62.5°	613.4	638.1	689.5	732.6	751.1
65°	550.7	570.3	625.7	671.0	686.4
67.5°	479.8	506.6	559.0	609.3	625.7
70°	411.0	437.7	490.1	542.5	574.4
72.5°	343.2	370.9	423.3	484.0	501.4
75°	276.4	303.1	354.5	411.0	438.7
77.5°	210.6	239.4	291.8	348.3	375.0
80°	154.1	176.7	233.2	282.6	305.2
82.5°	95.6	119.2	171.6	217.8	237.4
85°	47.3	67.8	104.8	124.3	129.5
87.5°	14.4	21.6	32.9	43.2	49.3
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	17.17	18.83	17.54	19.15	19.46	18.00	19.66	18.36	19.97	20.29
	3H	18.93	20.43	19.30	20.76	21.12	20.14	21.65	20.52	21.98	22.34
	4H	19.54	20.96	19.94	21.31	21.68	21.06	22.48	21.45	22.83	23.20
	6H	19.94	21.26	20.35	21.63	22.02	21.86	23.18	22.27	23.54	23.93
	8H	20.05	21.31	20.47	21.70	22.09	22.18	23.44	22.60	23.83	24.23
	12H	20.09	21.30	20.52	21.68	22.11	22.39	23.60	22.81	23.98	24.41
4H	2H	17.96	19.39	18.36	19.73	20.11	18.60	20.02	19.00	20.37	20.75
	3H	19.94	21.14	20.35	21.53	21.93	20.98	22.18	21.39	22.58	22.98
	4H	20.67	21.76	21.10	22.17	22.60	22.05	23.13	22.48	23.55	23.98
	6H	21.19	22.14	21.64	22.58	23.03	23.01	23.97	23.47	24.41	24.86
	8H	21.33	22.22	21.79	22.66	23.13	23.41	24.30	23.87	24.75	25.21
	12H	21.41	22.21	21.88	22.68	23.15	23.68	24.48	24.16	24.96	25.43
8H	4H	21.13	22.03	21.59	22.47	22.93	22.34	23.23	22.80	23.67	24.13
	6H	21.79	22.53	22.28	23.02	23.49	23.46	24.21	23.95	24.69	25.17
	8H	21.99	22.66	22.50	23.17	23.65	23.97	24.64	24.48	25.14	25.63
	12H	22.12	22.72	22.63	23.21	23.76	24.34	24.93	24.84	25.42	25.98
12H	4H	21.23	22.03	21.71	22.50	22.97	22.36	23.17	22.84	23.64	24.11
	6H	21.93	22.60	22.43	23.10	23.59	23.51	24.18	24.02	24.69	25.17
	8H	22.20	22.79	22.71	23.28	23.84	24.08	24.68	24.59	25.17	25.72