

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: P1586717

Luminaire Tested: 22CZSP-A-52-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586717
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-A-52-L840
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

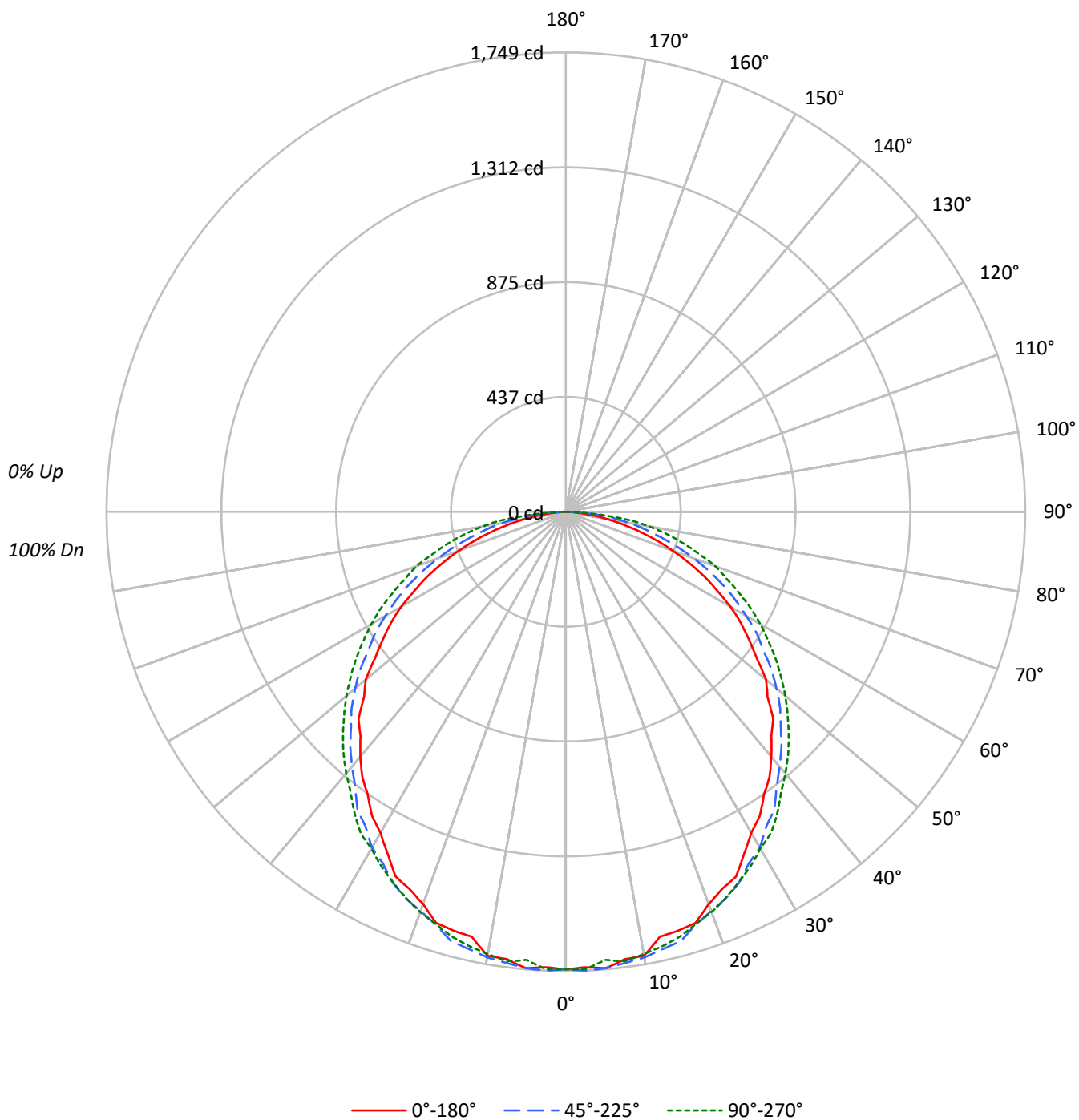
Lumens per Lamp: N/A
Luminaire Lumens: 5087.0 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5456	5456	5456
5°	5483	5483	5384
10°	5457	5478	5437
15°	5353	5483	5430
20°	5296	5390	5405
25°	5296	5386	5379
30°	5103	5339	5354
35°	5026	5287	5362
40°	4975	5175	5317
45°	4943	5121	5314
50°	4846	5100	5311
55°	4649	5005	5324
60°	4539	4966	5354
65°	4309	4895	5370
70°	3973	4738	5552
75°	3530	4528	5604
80°	2934	4441	5810
85°	1793	3977	4911

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6012 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	3.2
10°-20°	472.1	9.3
20°-30°	712.1	14.0
30°-40°	855.3	16.8
40°-50°	892.8	17.6
50°-60°	822.1	16.2
60°-70°	649.1	12.8
70°-80°	399.8	7.9
80°-90°	118.5	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°	1349.4	26.5
0°-40°	2204.7	43.3
0°-60°	3919.6	77.1
0°-90°	5087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5087.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1742	1742	1742	1742	1742	
5°	1744	1727	1744	1747	1713	165
15°	1651	1674	1691	1684	1675	467
25°	1533	1544	1559	1552	1557	698
35°	1315	1339	1383	1390	1403	826
45°	1116	1125	1156	1181	1200	854
55°	852	874	917	958	975	765
65°	582	602	661	708	725	573
75°	292	320	374	434	463	310
85°	50	72	111	131	137	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1742.3	1742.3	1742.3	1742.3	1742.3
2.5°	1735.8	1754.2	1748.8	1752.1	1743.4
5°	1744.5	1727.1	1744.5	1746.6	1713.0
7.5°	1718.4	1720.6	1732.5	1735.8	1726.0
10°	1716.3	1722.8	1722.8	1711.9	1709.8
12.5°	1656.6	1689.1	1705.4	1713.0	1694.6
15°	1651.2	1673.9	1691.3	1683.7	1675.0
17.5°	1641.4	1634.9	1646.8	1655.5	1645.7
20°	1589.3	1600.2	1617.5	1619.7	1621.9
22.5°	1554.6	1557.9	1592.6	1595.8	1591.5
25°	1532.9	1543.8	1559.0	1552.4	1556.8
27.5°	1468.9	1494.9	1509.0	1522.1	1522.1
30°	1411.4	1441.8	1476.5	1480.8	1480.8
32.5°	1373.4	1394.1	1420.1	1428.8	1452.6
35°	1314.9	1338.7	1383.2	1389.7	1402.7
37.5°	1273.6	1297.5	1318.1	1340.9	1346.3
40°	1217.2	1242.2	1266.0	1292.1	1300.8
42.5°	1157.6	1183.6	1215.1	1242.2	1253.0
45°	1116.3	1125.0	1156.5	1181.4	1199.9
47.5°	1041.5	1066.4	1106.6	1138.0	1145.6
50°	994.8	1004.6	1046.9	1089.2	1090.3
52.5°	916.7	946.0	987.2	1027.4	1032.8
55°	851.6	874.4	916.7	957.9	975.3
57.5°	790.9	808.2	862.5	903.7	913.5
60°	724.7	743.1	793.0	840.8	854.9
62.5°	647.7	673.7	727.9	773.5	793.0
65°	581.5	602.1	660.7	708.4	724.7
67.5°	506.6	534.8	590.2	643.3	660.7
70°	433.9	462.2	517.5	572.8	606.4
72.5°	362.3	391.6	447.0	511.0	529.4
75°	291.8	320.0	374.3	433.9	463.2
77.5°	222.4	252.8	308.1	367.8	396.0
80°	162.7	186.6	246.3	298.3	322.2
82.5°	100.9	125.8	181.2	230.0	250.6
85°	49.9	71.6	110.7	131.3	136.7
87.5°	15.2	22.8	34.7	45.6	52.1
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	17.36	19.02	17.73	19.34	19.65	18.18	19.85	18.55	20.16	20.47
	3H	19.11	20.62	19.49	20.95	21.31	20.33	21.84	20.71	22.17	22.53
	4H	19.73	21.15	20.13	21.50	21.87	21.25	22.67	21.64	23.02	23.39
	6H	20.13	21.45	20.54	21.82	22.21	22.05	23.37	22.46	23.73	24.12
	8H	20.23	21.50	20.66	21.89	22.28	22.37	23.63	22.79	24.02	24.42
	12H	20.28	21.49	20.71	21.87	22.30	22.57	23.78	23.00	24.17	24.59
4H	2H	18.15	19.58	18.55	19.92	20.30	18.79	20.21	19.19	20.56	20.93
	3H	20.13	21.32	20.54	21.72	22.12	21.17	22.37	21.58	22.76	23.16
	4H	20.86	21.94	21.29	22.36	22.79	22.24	23.32	22.67	23.74	24.17
	6H	21.38	22.33	21.83	22.77	23.22	23.20	24.16	23.66	24.60	25.05
	8H	21.52	22.41	21.98	22.85	23.32	23.60	24.49	24.06	24.93	25.40
	12H	21.59	22.40	22.07	22.87	23.34	23.87	24.67	24.35	25.15	25.61
8H	4H	21.32	22.22	21.78	22.66	23.12	22.53	23.42	22.98	23.86	24.32
	6H	21.98	22.72	22.47	23.21	23.68	23.65	24.40	24.14	24.88	25.36
	8H	22.18	22.85	22.69	23.36	23.84	24.16	24.83	24.67	25.33	25.82
	12H	22.31	22.90	22.82	23.39	23.95	24.53	25.12	25.03	25.61	26.17
12H	4H	21.41	22.22	21.89	22.69	23.16	22.55	23.35	23.03	23.83	24.30
	6H	22.12	22.79	22.62	23.29	23.78	23.70	24.37	24.21	24.87	25.36
	8H	22.39	22.98	22.90	23.47	24.03	24.27	24.87	24.78	25.35	25.91