

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: P1586476

Luminaire Tested: 22CZSP-52-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586476
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-L840-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

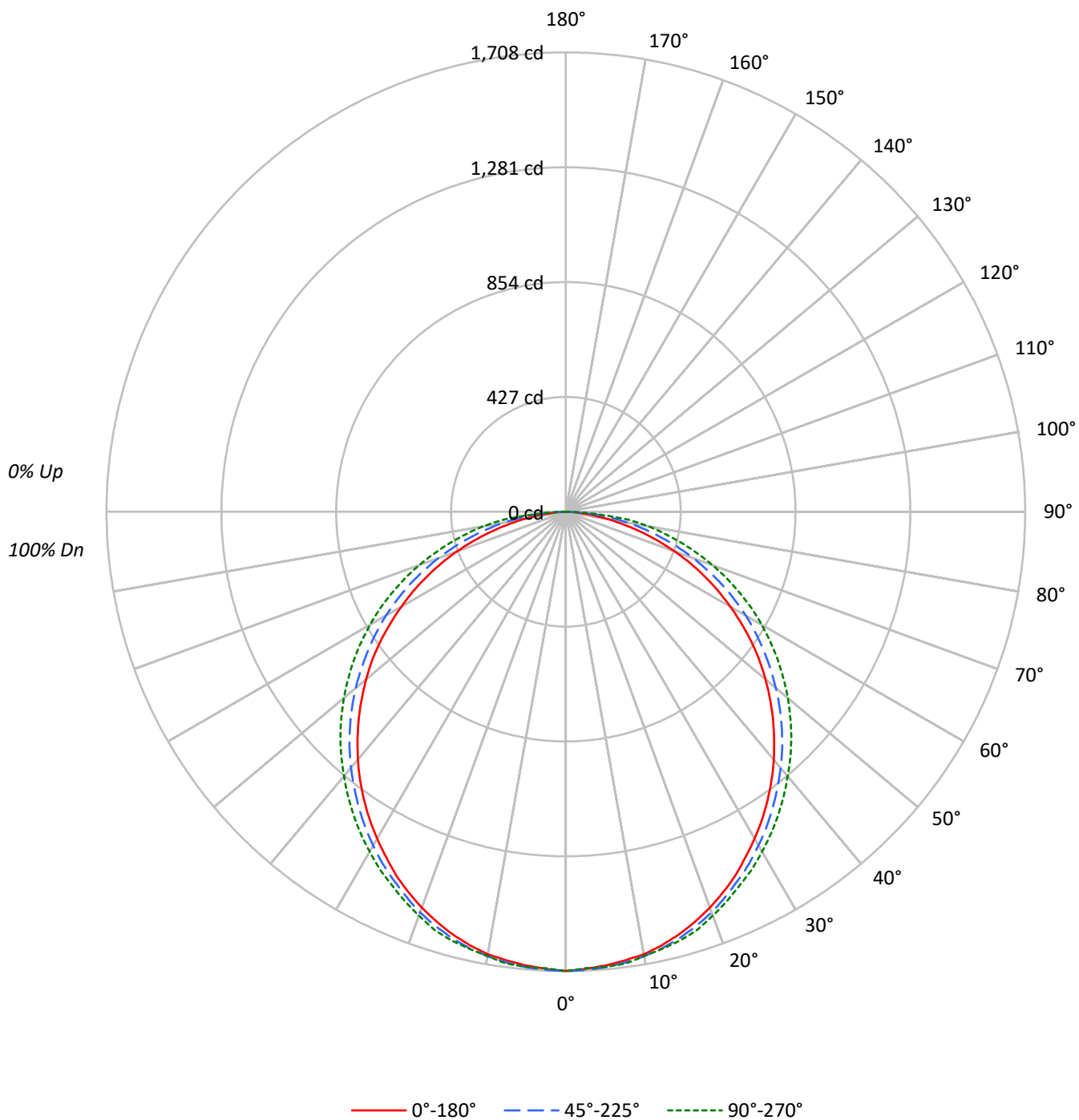
Lumens per Lamp: N/A
Luminaire Lumens: 4985.0 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5347	5347	5347
5°	5323	5343	5340
10°	5311	5335	5332
15°	5273	5316	5347
20°	5220	5282	5325
25°	5155	5227	5291
30°	5074	5181	5276
35°	5001	5131	5260
40°	4918	5079	5245
45°	4825	5028	5251
50°	4721	4966	5249
55°	4598	4897	5255
60°	4425	4844	5268
65°	4223	4749	5284
70°	3936	4617	5307
75°	3507	4433	5360
80°	2900	4221	5621
85°	1886	3812	4911

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5798 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	3.2
10°-20°	462.4	9.3
20°-30°	697.4	14.0
30°-40°	840.0	16.8
40°-50°	877.2	17.6
50°-60°	805.6	16.2
60°-70°	634.5	12.7
70°-80°	389.3	7.8
80°-90°	117.1	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°	1321.2	26.5
0°-40°	2161.2	43.4
0°-60°	3844.0	77.1
0°-90°	4985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1708	1708	1708	1708	1708	
5°	1693	1696	1700	1705	1699	161
15°	1627	1630	1640	1650	1650	459
25°	1492	1495	1513	1531	1531	687
35°	1308	1315	1342	1370	1376	818
45°	1090	1102	1135	1175	1186	840
55°	842	858	897	947	963	752
65°	570	590	641	695	713	564
75°	290	313	366	424	443	307
85°	52	72	106	134	137	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1707.5	1707.5	1707.5	1707.5	1707.5
2.5°	1700.9	1704.2	1705.3	1706.4	1698.7
5°	1693.3	1695.5	1699.8	1705.3	1698.7
7.5°	1682.3	1684.5	1690.0	1697.7	1694.4
10°	1670.3	1671.4	1678.0	1683.4	1676.9
12.5°	1650.6	1653.9	1661.6	1665.9	1663.7
15°	1626.6	1629.8	1639.7	1649.5	1649.5
17.5°	1598.1	1602.5	1614.5	1627.6	1628.7
20°	1566.4	1569.7	1585.0	1598.1	1598.1
22.5°	1530.3	1534.7	1550.0	1564.2	1566.4
25°	1492.0	1495.3	1512.8	1531.4	1531.4
27.5°	1447.2	1453.7	1475.6	1494.2	1498.6
30°	1403.4	1408.9	1432.9	1455.9	1459.2
32.5°	1357.5	1364.0	1389.2	1414.3	1419.8
35°	1308.2	1314.8	1342.2	1369.5	1376.1
37.5°	1256.8	1264.5	1292.9	1324.6	1331.2
40°	1203.2	1212.0	1242.6	1276.5	1283.1
42.5°	1146.4	1158.4	1191.2	1226.2	1236.0
45°	1089.5	1101.5	1135.4	1174.8	1185.7
47.5°	1029.3	1043.5	1078.5	1120.1	1132.1
50°	969.1	983.4	1019.5	1064.3	1077.4
52.5°	907.9	922.1	959.3	1006.3	1020.6
55°	842.3	857.6	897.0	947.3	962.6
57.5°	774.4	794.1	835.7	887.1	902.4
60°	706.6	726.3	773.4	823.7	841.2
62.5°	639.9	658.5	706.6	760.2	778.8
65°	569.9	589.6	641.0	694.6	713.2
67.5°	501.0	520.7	572.1	627.9	647.6
70°	429.9	451.8	504.3	560.0	579.7
72.5°	358.8	381.8	435.4	492.2	510.8
75°	289.9	312.8	366.4	424.4	443.0
77.5°	222.1	247.2	299.7	358.8	376.3
80°	160.8	184.9	234.1	292.1	311.7
82.5°	102.8	123.6	172.8	227.5	241.7
85°	52.5	72.2	106.1	134.5	136.7
87.5°	16.4	23.0	35.0	52.5	53.6
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	17.30	18.96	17.67	19.28	19.59	18.13	19.79	18.50	20.11	20.42
	3H	19.06	20.57	19.43	20.89	21.25	20.25	21.76	20.63	22.08	22.44
	4H	19.68	21.10	20.07	21.45	21.82	21.14	22.56	21.54	22.91	23.28
	6H	20.09	21.41	20.50	21.77	22.16	21.92	23.24	22.33	23.60	23.99
	8H	20.20	21.46	20.62	21.85	22.24	22.24	23.50	22.66	23.89	24.29
	12H	20.25	21.46	20.68	21.84	22.27	22.45	23.66	22.88	24.04	24.47
4H	2H	18.07	19.50	18.47	19.84	20.22	18.72	20.14	19.12	20.49	20.87
	3H	20.05	21.25	20.46	21.65	22.05	21.08	22.27	21.48	22.67	23.07
	4H	20.79	21.87	21.22	22.29	22.72	22.13	23.21	22.56	23.63	24.06
	6H	21.32	22.27	21.77	22.71	23.16	23.08	24.03	23.53	24.47	24.93
	8H	21.46	22.36	21.92	22.80	23.26	23.48	24.37	23.94	24.81	25.28
	12H	21.55	22.35	22.03	22.83	23.29	23.75	24.56	24.23	25.03	25.50
8H	4H	21.25	22.14	21.71	22.58	23.05	22.42	23.31	22.88	23.75	24.21
	6H	21.91	22.65	22.40	23.14	23.61	23.53	24.27	24.02	24.76	25.23
	8H	22.12	22.79	22.63	23.29	23.78	24.04	24.71	24.55	25.21	25.70
	12H	22.26	22.85	22.76	23.34	23.90	24.43	25.02	24.93	25.51	26.07
12H	4H	21.34	22.14	21.82	22.61	23.08	22.44	23.24	22.92	23.72	24.19
	6H	22.04	22.71	22.55	23.22	23.70	23.58	24.25	24.08	24.75	25.24
	8H	22.32	22.91	22.82	23.40	23.96	24.15	24.75	24.66	25.24	25.79