

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: P1586473

Luminaire Tested: 22CZSP-52-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586473
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-L830
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

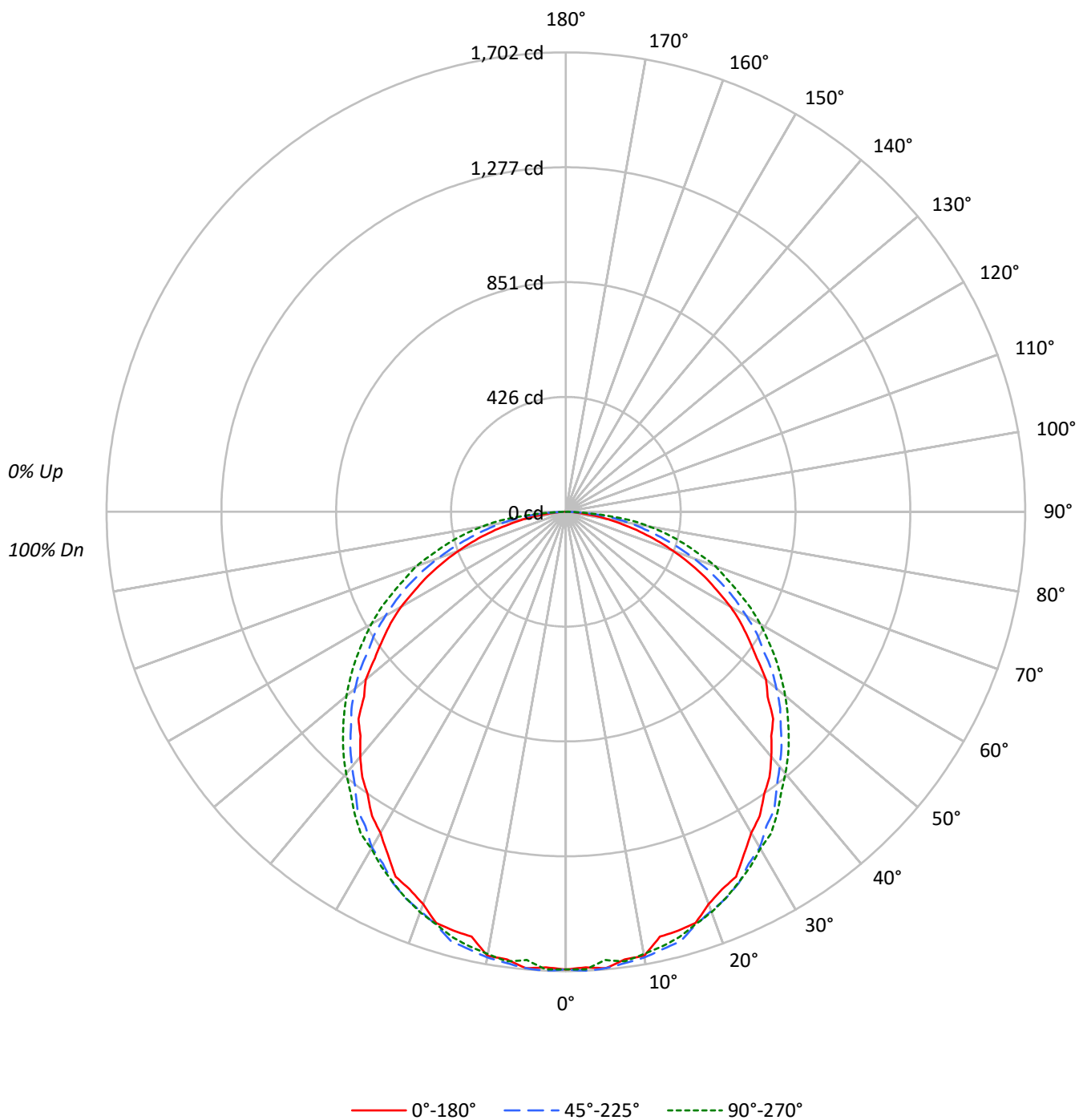
Lumens per Lamp: N/A
Luminaire Lumens: 4951.0 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.2
Input Voltage (V): NR
Input Current (A_{in}): 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°	5310	5310	5310
5°	5337	5337	5240
10°	5311	5331	5291
15°	5210	5336	5285
20°	5154	5246	5260
25°	5155	5242	5235
30°	4967	5196	5211
35°	4892	5146	5219
40°	4843	5037	5175
45°	4811	4985	5171
50°	4717	4964	5169
55°	4525	4871	5182
60°	4417	4834	5211
65°	4193	4764	5226
70°	3866	4611	5404
75°	3436	4407	5455
80°	2856	4322	5655
85°	1746	3869	4778

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5851 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	3.2
10°-20°	459.5	9.3
20°-30°	693.1	14.0
30°-40°	832.4	16.8
40°-50°	868.9	17.6
50°-60°	800.1	16.2
60°-70°	631.8	12.8
70°-80°	389.1	7.9
80°-90°	115.4	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°	1313.3	26.5
0°-40°	2145.8	43.3
0°-60°	3814.8	77.1
0°-90°	4951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4951.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1696	1696	1696	1696	1696	
5°	1698	1681	1698	1700	1667	160
15°	1607	1629	1646	1639	1630	454
25°	1492	1502	1517	1511	1515	680
35°	1280	1303	1346	1353	1365	804
45°	1086	1095	1126	1150	1168	831
55°	829	851	892	932	949	744
65°	566	586	643	690	705	557
75°	284	312	364	422	451	301
85°	49	70	108	128	133	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1695.7	1695.7	1695.7	1695.7	1695.7
2.5°	1689.4	1707.3	1702.1	1705.2	1696.8
5°	1697.8	1680.9	1697.8	1699.9	1667.2
7.5°	1672.5	1674.6	1686.2	1689.4	1679.9
10°	1670.4	1676.7	1676.7	1666.2	1664.0
12.5°	1612.3	1644.0	1659.8	1667.2	1649.3
15°	1607.0	1629.2	1646.1	1638.7	1630.3
17.5°	1597.5	1591.2	1602.8	1611.2	1601.7
20°	1546.8	1557.4	1574.3	1576.4	1578.5
22.5°	1513.1	1516.2	1550.0	1553.2	1549.0
25°	1491.9	1502.5	1517.3	1510.9	1515.2
27.5°	1429.6	1455.0	1468.7	1481.4	1481.4
30°	1373.7	1403.2	1437.0	1441.3	1441.3
32.5°	1336.7	1356.8	1382.1	1390.6	1413.8
35°	1279.7	1302.9	1346.2	1352.6	1365.2
37.5°	1239.6	1262.8	1282.9	1305.0	1310.3
40°	1184.7	1209.0	1232.2	1257.5	1266.0
42.5°	1126.6	1151.9	1182.6	1209.0	1219.5
45°	1086.5	1094.9	1125.6	1149.8	1167.8
47.5°	1013.6	1037.9	1077.0	1107.6	1115.0
50°	968.2	977.7	1018.9	1060.1	1061.1
52.5°	892.2	920.7	960.8	999.9	1005.2
55°	828.9	851.0	892.2	932.3	949.2
57.5°	769.7	786.6	839.4	879.5	889.0
60°	705.3	723.3	771.8	818.3	832.0
62.5°	630.4	655.7	708.5	752.8	771.8
65°	565.9	586.0	643.0	689.5	705.3
67.5°	493.1	520.5	574.4	626.1	643.0
70°	422.3	449.8	503.6	557.5	590.2
72.5°	352.7	381.2	435.0	497.3	515.3
75°	284.0	311.5	364.3	422.3	450.9
77.5°	216.5	246.0	299.9	357.9	385.4
80°	158.4	181.6	239.7	290.4	313.6
82.5°	98.2	122.5	176.3	223.8	243.9
85°	48.6	69.7	107.7	127.8	133.0
87.5°	14.8	22.2	33.8	44.3	50.7
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	17.27	18.93	17.63	19.24	19.56	18.09	19.75	18.45	20.07	20.38
	3H	19.02	20.53	19.40	20.85	21.21	20.24	21.75	20.61	22.07	22.43
	4H	19.63	21.06	20.03	21.40	21.78	21.15	22.57	21.55	22.92	23.30
	6H	20.04	21.36	20.45	21.72	22.11	21.95	23.27	22.36	23.64	24.03
	8H	20.14	21.40	20.56	21.79	22.19	22.27	23.54	22.70	23.93	24.32
	12H	20.19	21.40	20.61	21.78	22.21	22.48	23.69	22.91	24.07	24.50
4H	2H	18.06	19.48	18.46	19.83	20.20	18.70	20.12	19.09	20.47	20.84
	3H	20.03	21.23	20.44	21.63	22.03	21.08	22.27	21.48	22.67	23.07
	4H	20.76	21.85	21.19	22.26	22.70	22.14	23.23	22.57	23.64	24.08
	6H	21.28	22.24	21.74	22.68	23.13	23.11	24.06	23.56	24.50	24.96
	8H	21.42	22.32	21.88	22.76	23.22	23.51	24.40	23.97	24.84	25.30
	12H	21.50	22.30	21.98	22.78	23.25	23.77	24.58	24.25	25.05	25.52
8H	4H	21.23	22.12	21.69	22.56	23.03	22.43	23.32	22.89	23.77	24.23
	6H	21.88	22.63	22.38	23.12	23.59	23.56	24.30	24.05	24.79	25.26
	8H	22.09	22.76	22.60	23.26	23.75	24.06	24.73	24.57	25.24	25.72
	12H	22.22	22.81	22.72	23.30	23.86	24.43	25.03	24.94	25.51	26.07
12H	4H	21.32	22.12	21.80	22.60	23.07	22.46	23.26	22.94	23.73	24.20
	6H	22.02	22.69	22.53	23.20	23.68	23.61	24.28	24.11	24.78	25.26
	8H	22.30	22.89	22.80	23.38	23.94	24.18	24.77	24.68	25.26	25.82