

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: P1586472

Luminaire Tested: 22CZSP-52-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586472
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-L830-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

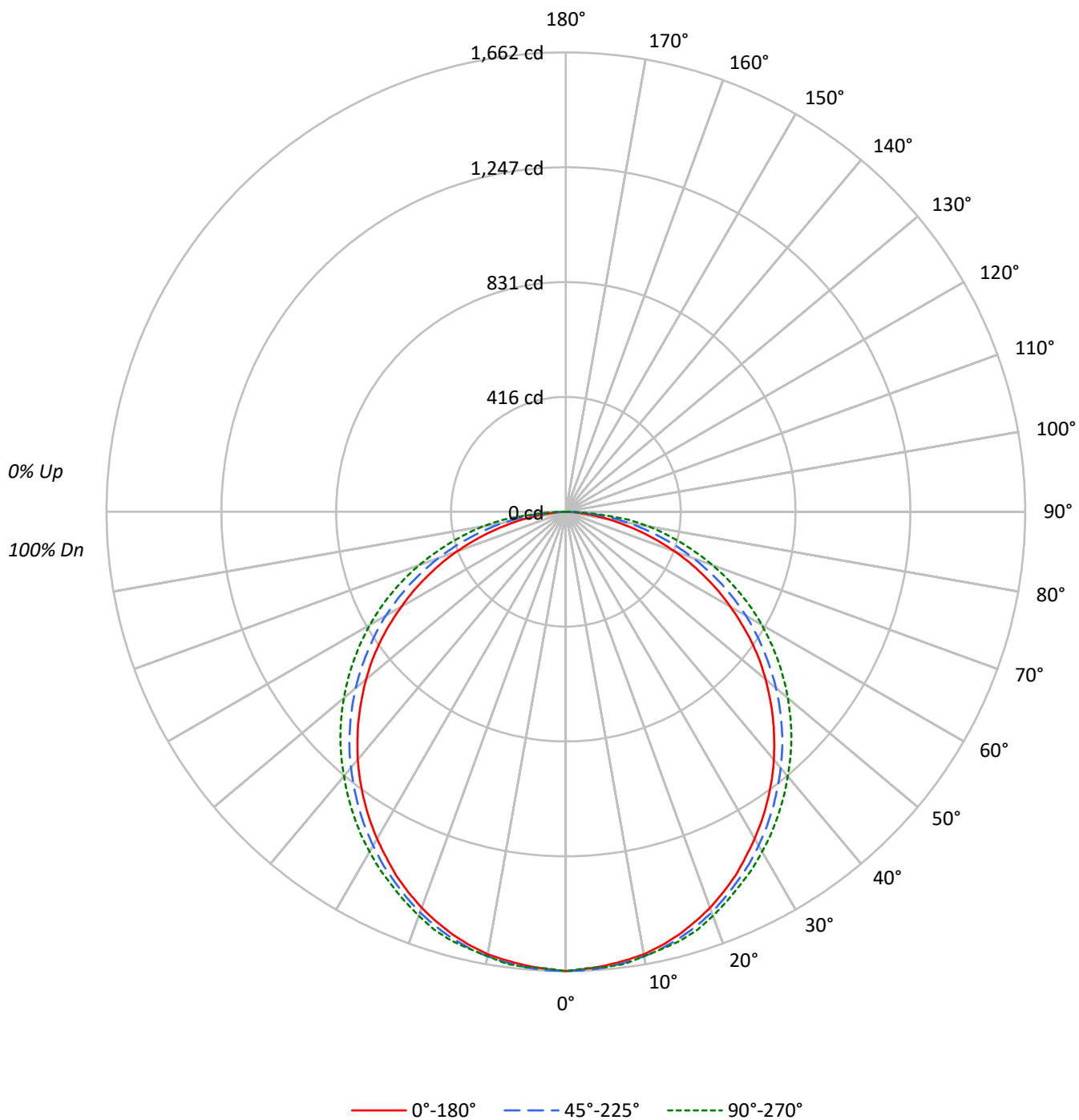
Lumens per Lamp: N/A
Luminaire Lumens: 4852.0 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5204	5204	5204
5°	5180	5201	5197
10°	5169	5193	5189
15°	5132	5174	5205
20°	5080	5141	5183
25°	5017	5087	5150
30°	4939	5043	5135
35°	4867	4994	5120
40°	4787	4944	5105
45°	4696	4894	5111
50°	4595	4834	5109
55°	4476	4766	5115
60°	4307	4714	5127
65°	4110	4623	5144
70°	3831	4493	5166
75°	3413	4316	5217
80°	2822	4108	5471
85°	1836	3711	4782

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5645 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.2	3.2
10°-20°	450.1	9.3
20°-30°	678.8	14.0
30°-40°	817.5	16.8
40°-50°	853.8	17.6
50°-60°	784.1	16.2
60°-70°	617.6	12.7
70°-80°	378.9	7.8
80°-90°	114.0	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°	1286.0	26.5
0°-40°	2103.5	43.4
0°-60°	3741.5	77.1
0°-90°	4852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4852.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1662	1662	1662	1662	1662	
5°	1648	1650	1654	1660	1653	157
15°	1583	1586	1596	1606	1606	446
25°	1452	1455	1472	1490	1490	668
35°	1273	1280	1306	1333	1339	796
45°	1060	1072	1105	1143	1154	818
55°	820	835	873	922	937	732
65°	555	574	624	676	694	549
75°	282	304	357	413	431	299
85°	51	70	103	131	133	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1661.9	1661.9	1661.9	1661.9	1661.9
2.5°	1655.6	1658.7	1659.8	1660.9	1653.4
5°	1648.1	1650.2	1654.5	1659.8	1653.4
7.5°	1637.5	1639.6	1644.9	1652.4	1649.2
10°	1625.7	1626.8	1633.2	1638.5	1632.1
12.5°	1606.6	1609.8	1617.2	1621.5	1619.4
15°	1583.2	1586.3	1595.9	1605.5	1605.5
17.5°	1555.5	1559.7	1571.4	1584.2	1585.3
20°	1524.6	1527.8	1542.7	1555.5	1555.5
22.5°	1489.5	1493.7	1508.6	1522.5	1524.6
25°	1452.2	1455.4	1472.4	1490.5	1490.5
27.5°	1408.5	1414.9	1436.2	1454.3	1458.6
30°	1366.0	1371.3	1394.7	1417.1	1420.3
32.5°	1321.2	1327.6	1352.1	1376.6	1381.9
35°	1273.3	1279.7	1306.3	1333.0	1339.3
37.5°	1223.3	1230.8	1258.4	1289.3	1295.7
40°	1171.1	1179.6	1209.5	1242.5	1248.9
42.5°	1115.8	1127.5	1159.4	1193.5	1203.1
45°	1060.4	1072.1	1105.1	1143.4	1154.1
47.5°	1001.8	1015.7	1049.8	1090.2	1101.9
50°	943.3	957.1	992.3	1035.9	1048.7
52.5°	883.7	897.5	933.7	979.5	993.3
55°	819.8	834.7	873.0	922.0	936.9
57.5°	753.8	772.9	813.4	863.4	878.3
60°	687.8	706.9	752.7	801.7	818.7
62.5°	622.8	640.9	687.8	739.9	758.0
65°	554.7	573.9	623.9	676.1	694.2
67.5°	487.6	506.8	556.8	611.1	630.3
70°	418.4	439.7	490.8	545.1	564.3
72.5°	349.2	371.6	423.7	479.1	497.2
75°	282.1	304.5	356.7	413.1	431.2
77.5°	216.1	240.6	291.7	349.2	366.2
80°	156.5	179.9	227.8	284.3	303.4
82.5°	100.1	120.3	168.2	221.4	235.3
85°	51.1	70.3	103.3	131.0	133.1
87.5°	16.0	22.4	34.1	51.1	52.2
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	17.21	18.87	17.57	19.19	19.50	18.04	19.70	18.40	20.02	20.33
	3H	18.96	20.47	19.34	20.80	21.16	20.16	21.66	20.53	21.99	22.35
	4H	19.58	21.01	19.98	21.35	21.73	21.04	22.47	21.44	22.81	23.19
	6H	19.99	21.31	20.40	21.68	22.07	21.83	23.15	22.24	23.51	23.90
	8H	20.10	21.36	20.52	21.75	22.15	22.15	23.41	22.57	23.80	24.19
	12H	20.15	21.36	20.58	21.74	22.17	22.36	23.57	22.79	23.95	24.38
4H	2H	17.98	19.40	18.38	19.75	20.12	18.63	20.05	19.02	20.40	20.77
	3H	19.96	21.16	20.37	21.55	21.95	20.98	22.18	21.39	22.58	22.98
	4H	20.69	21.78	21.13	22.19	22.63	22.03	23.12	22.46	23.53	23.97
	6H	21.22	22.18	21.68	22.61	23.07	22.99	23.94	23.44	24.38	24.83
	8H	21.37	22.26	21.83	22.70	23.17	23.38	24.28	23.84	24.72	25.18
	12H	21.45	22.26	21.93	22.73	23.20	23.66	24.46	24.14	24.94	25.41
8H	4H	21.15	22.05	21.61	22.49	22.95	22.32	23.22	22.78	23.66	24.12
	6H	21.81	22.56	22.31	23.05	23.52	23.43	24.18	23.93	24.67	25.14
	8H	22.03	22.69	22.53	23.20	23.68	23.95	24.62	24.45	25.12	25.60
	12H	22.16	22.76	22.67	23.25	23.80	24.33	24.92	24.84	25.41	25.97
12H	4H	21.24	22.05	21.72	22.52	22.99	22.35	23.15	22.83	23.63	24.09
	6H	21.95	22.62	22.45	23.12	23.61	23.48	24.15	23.99	24.66	25.14
	8H	22.22	22.82	22.73	23.31	23.86	24.06	24.65	24.57	25.14	25.70