

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: P1587752

Luminaire Tested: 22CZSP-SB-52-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-52-L830-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

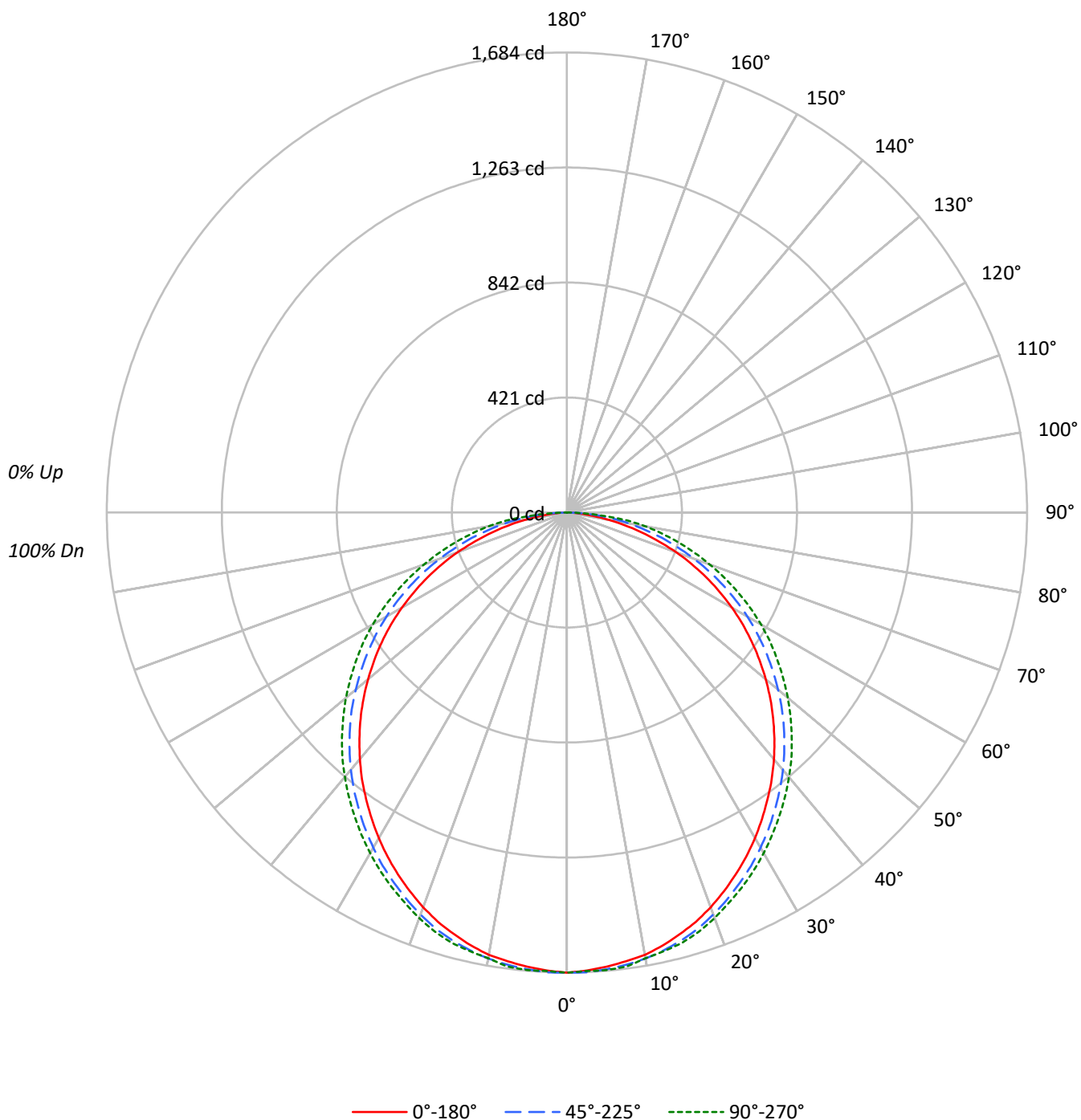
Lumens per Lamp: N/A
Luminaire Lumens: 4900.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1587752

CATALOG NUMBER: 22CZSP-SB-52-L830-S

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	94	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	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5275	5275	5275
5°	5245	5275	5285
10°	5229	5272	5269
15°	5180	5256	5286
20°	5125	5220	5265
25°	5051	5168	5233
30°	4978	5122	5206
35°	4896	5073	5182
40°	4817	5028	5166
45°	4729	4976	5153
50°	4626	4914	5140
55°	4512	4851	5133
60°	4370	4780	5136
65°	4171	4678	5108
70°	3899	4536	5096
75°	3457	4362	5114
80°	2813	4144	5266
85°	1818	3826	4545

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5335 cd/sqm

TEST NUMBER: P1587752

CATALOG NUMBER: 22CZSP-SB-52-L830-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.4	3.3
10°-20°	456.5	9.3
20°-30°	688.3	14.0
30°-40°	828.1	16.9
40°-50°	863.8	17.6
50°-60°	791.8	16.2
60°-70°	621.8	12.7
70°-80°	378.4	7.7
80°-90°	111.9	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°	1304.1	26.6
0°-40°	2132.3	43.5
0°-60°	3787.9	77.3
0°-90°	4900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1669	1679	1678	1676	1681	159
15°	1598	1614	1621	1623	1631	451
25°	1462	1482	1496	1505	1515	674
35°	1281	1301	1327	1346	1356	801
45°	1068	1090	1124	1150	1164	823
55°	826	848	889	924	940	738
65°	563	584	631	674	689	557
75°	286	312	360	404	423	303
85°	51	72	106	119	126	66
90°	0	0	0	0	0	

TEST NUMBER: P1587752

CATALOG NUMBER: 22CZSP-SB-52-L830-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1684.5	1684.5	1684.5	1684.5	1684.5
2.5°	1678.1	1686.6	1684.5	1677.1	1680.2
5°	1668.6	1679.2	1678.1	1676.0	1681.3
7.5°	1657.0	1668.6	1669.7	1669.7	1676.0
10°	1644.4	1656.0	1658.1	1654.9	1657.0
12.5°	1623.3	1637.0	1641.2	1641.2	1644.4
15°	1598.0	1613.8	1621.2	1623.3	1630.7
17.5°	1570.6	1587.5	1597.0	1602.2	1608.6
20°	1537.9	1555.9	1566.4	1572.7	1580.1
22.5°	1501.0	1521.1	1532.7	1539.0	1547.4
25°	1462.0	1482.1	1495.8	1505.3	1514.7
27.5°	1420.9	1439.9	1458.9	1470.5	1478.9
30°	1376.7	1396.7	1416.7	1431.5	1439.9
32.5°	1329.2	1350.3	1373.5	1389.3	1398.8
35°	1280.7	1300.8	1327.1	1346.1	1355.6
37.5°	1231.2	1252.3	1279.7	1299.7	1311.3
40°	1178.5	1200.6	1230.1	1252.3	1263.9
42.5°	1123.7	1144.8	1177.4	1202.7	1216.4
45°	1067.8	1089.9	1123.7	1150.0	1163.7
47.5°	1009.8	1030.9	1067.8	1098.4	1110.0
50°	949.7	969.8	1008.8	1041.4	1055.2
52.5°	888.6	909.7	948.7	983.5	998.2
55°	826.4	847.5	888.6	924.4	940.3
57.5°	763.2	784.2	826.4	863.3	882.3
60°	697.8	718.9	763.2	801.1	820.1
62.5°	630.4	652.5	697.8	736.8	756.8
65°	562.9	584.0	631.4	673.6	689.4
67.5°	495.4	516.5	562.9	605.1	624.0
70°	425.9	450.1	495.4	539.7	556.6
72.5°	353.1	380.5	425.9	472.2	489.1
75°	285.7	312.0	360.5	403.7	422.7
77.5°	219.3	247.7	293.0	337.3	356.3
80°	156.0	183.4	229.8	272.0	292.0
82.5°	99.1	123.3	169.7	207.7	222.4
85°	50.6	71.7	106.5	119.1	126.5
87.5°	14.8	25.3	37.9	47.4	52.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587752

CATALOG NUMBER: 22CZSP-SB-52-L830-S

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	17.28	18.94	17.64	19.25	19.56	18.01	19.67	18.38	19.99	20.30
	3H	19.05	20.55	19.42	20.88	21.24	20.09	21.60	20.47	21.92	22.28
	4H	19.66	21.08	20.06	21.43	21.81	20.96	22.38	21.35	22.72	23.10
	6H	20.07	21.39	20.48	21.75	22.15	21.70	23.02	22.11	23.38	23.77
	8H	20.18	21.44	20.60	21.82	22.22	22.00	23.26	22.42	23.64	24.04
	12H	20.23	21.43	20.65	21.81	22.24	22.19	23.40	22.62	23.78	24.21
4H	2H	18.05	19.47	18.44	19.81	20.19	18.62	20.04	19.01	20.38	20.76
	3H	20.04	21.23	20.45	21.63	22.03	20.93	22.13	21.34	22.52	22.92
	4H	20.78	21.86	21.21	22.28	22.71	21.95	23.03	22.38	23.44	23.88
	6H	21.31	22.26	21.76	22.70	23.15	22.85	23.80	23.31	24.24	24.70
	8H	21.45	22.34	21.91	22.78	23.24	23.22	24.11	23.68	24.55	25.02
	12H	21.53	22.33	22.01	22.81	23.27	23.47	24.28	23.95	24.75	25.22
8H	4H	21.22	22.11	21.68	22.56	23.02	22.25	23.14	22.70	23.58	24.04
	6H	21.89	22.63	22.38	23.12	23.59	23.30	24.05	23.80	24.53	25.01
	8H	22.10	22.76	22.60	23.27	23.75	23.78	24.44	24.28	24.95	25.43
	12H	22.23	22.82	22.74	23.31	23.87	24.13	24.72	24.63	25.21	25.77
12H	4H	21.31	22.11	21.78	22.58	23.05	22.27	23.07	22.75	23.55	24.02
	6H	22.01	22.68	22.52	23.18	23.67	23.35	24.02	23.86	24.53	25.01
	8H	22.29	22.88	22.79	23.37	23.93	23.89	24.48	24.40	24.97	25.53