

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: P1587713

Luminaire Tested: 22CZSP-SB-47-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-47-L830
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

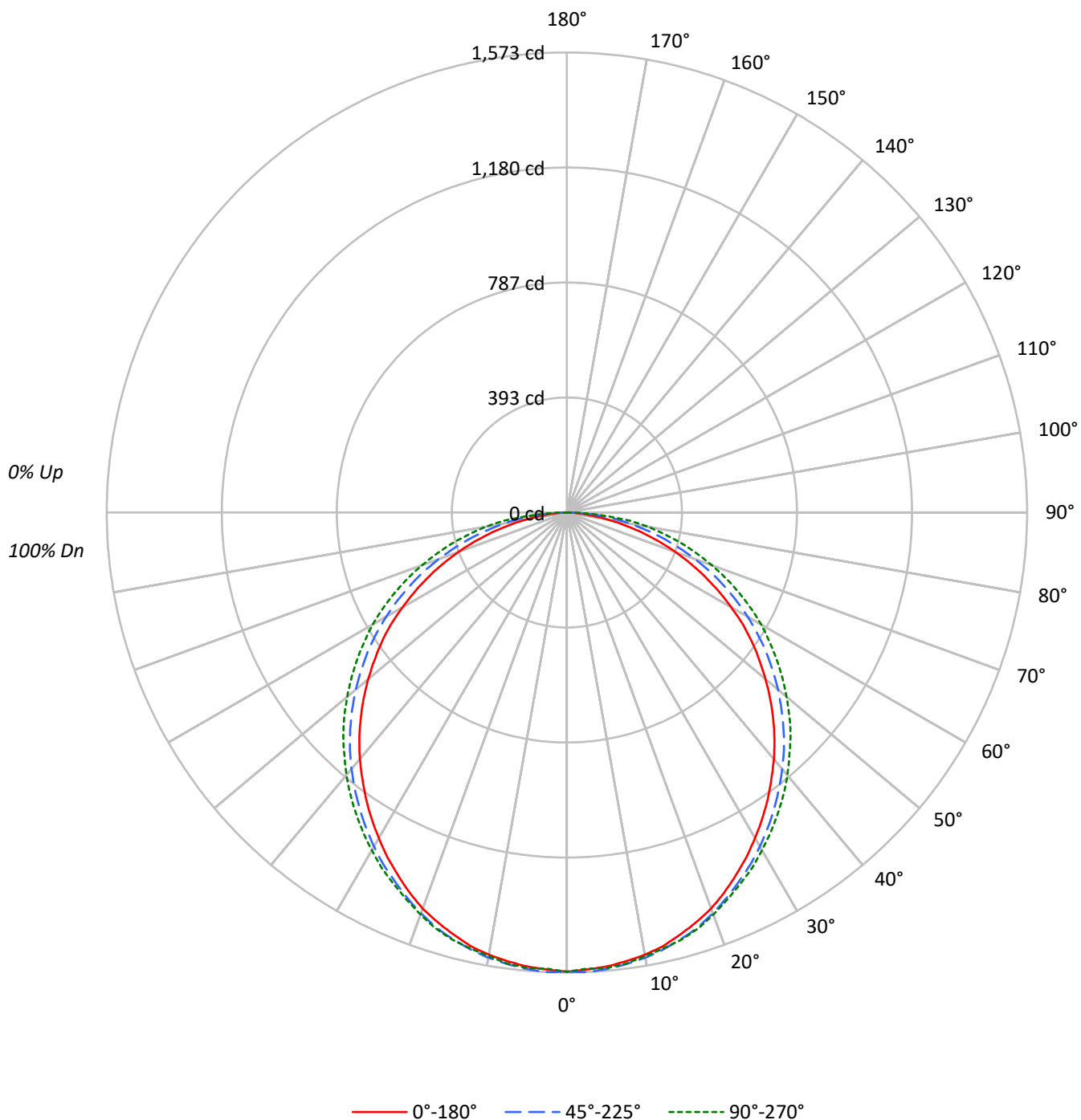
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4582.0 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 33.1
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: P1587713
CATALOG NUMBER: 22CZSP-SB-47-L830

Luminous Intensity Polar Plot



TEST NUMBER: P1587713

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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	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°	4916	4916	4916
5°	4898	4926	4914
10°	4881	4915	4897
15°	4845	4895	4901
20°	4802	4860	4876
25°	4724	4808	4842
30°	4649	4769	4821
35°	4575	4723	4804
40°	4499	4682	4793
45°	4415	4638	4788
50°	4318	4587	4776
55°	4219	4537	4775
60°	4063	4470	4804
65°	3873	4383	4807
70°	3614	4262	4821
75°	3215	4106	4905
80°	2640	3935	5089
85°	1743	3693	4599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5211 cd/sqm

TEST NUMBER: P1587713

CATALOG NUMBER: 22CZSP-SB-47-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	3.2
10°-20°	425.1	9.3
20°-30°	640.7	14.0
30°-40°	771.6	16.8
40°-50°	806.2	17.6
50°-60°	740.6	16.2
60°-70°	583.2	12.7
70°-80°	357.6	7.8
80°-90°	108.4	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°	1214.4	26.5
0°-40°	1986.0	43.3
0°-60°	3532.8	77.1
0°-90°	4582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1570	1570	1570	1570	1570	
5°	1558	1561	1567	1565	1563	148
15°	1494	1500	1510	1516	1512	422
25°	1367	1376	1392	1406	1401	630
35°	1197	1212	1236	1258	1257	748
45°	997	1018	1047	1076	1081	769
55°	773	795	831	867	875	690
65°	523	550	592	631	649	517
75°	266	297	339	380	405	282
85°	48	72	103	114	128	62
90°	0	0	0	0	0	

TEST NUMBER: P1587713

CATALOG NUMBER: 22CZSP-SB-47-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1570.1	1570.1	1570.1	1570.1	1570.1
2.5°	1564.2	1568.1	1573.0	1565.2	1561.3
5°	1558.4	1561.3	1567.2	1565.2	1563.3
7.5°	1547.8	1549.7	1557.5	1557.5	1555.5
10°	1535.2	1539.0	1545.8	1544.9	1540.0
12.5°	1518.7	1521.6	1529.3	1529.3	1526.4
15°	1494.4	1500.2	1509.9	1515.8	1511.9
17.5°	1469.2	1475.0	1487.6	1493.5	1491.5
20°	1441.1	1445.9	1458.5	1467.3	1463.4
22.5°	1406.2	1412.0	1426.5	1436.2	1432.4
25°	1367.4	1376.1	1391.6	1406.2	1401.3
27.5°	1328.6	1338.3	1357.7	1372.2	1370.3
30°	1285.9	1298.5	1318.9	1337.3	1333.4
32.5°	1242.3	1256.8	1278.2	1297.6	1296.6
35°	1196.7	1212.2	1235.5	1257.8	1256.8
37.5°	1148.2	1166.6	1190.9	1215.1	1216.1
40°	1100.7	1118.2	1145.3	1171.5	1172.5
42.5°	1050.3	1068.7	1097.8	1124.9	1125.9
45°	996.9	1018.3	1047.4	1076.5	1081.3
47.5°	942.6	964.9	995.0	1026.0	1031.8
50°	886.4	909.7	941.7	974.6	980.4
52.5°	829.2	853.4	886.4	919.3	928.1
55°	772.9	795.2	831.1	867.0	874.7
57.5°	713.8	734.1	772.9	810.7	820.4
60°	648.8	674.0	713.8	751.6	767.1
62.5°	585.7	612.9	653.6	691.5	708.9
65°	522.7	549.9	591.6	631.3	648.8
67.5°	458.7	486.8	531.4	569.3	588.7
70°	394.7	422.8	465.5	506.2	526.6
72.5°	330.7	360.8	402.5	444.2	464.5
75°	265.7	296.8	339.4	380.2	405.4
77.5°	204.6	234.7	277.4	319.1	340.4
80°	146.4	176.5	218.2	259.9	282.2
82.5°	93.1	121.2	162.0	196.9	217.2
85°	48.5	71.8	102.8	114.4	128.0
87.5°	14.5	28.1	39.8	44.6	55.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587713
CATALOG NUMBER: 22CZSP-SB-47-L830

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	17.05	18.71	17.41	19.02	19.34	17.79	19.46	18.16	19.77	20.08
	3H	18.81	20.32	19.19	20.64	21.00	19.89	21.40	20.26	21.72	22.08
	4H	19.43	20.86	19.83	21.20	21.58	20.77	22.20	21.17	22.54	22.92
	6H	19.85	21.17	20.26	21.53	21.92	21.54	22.86	21.95	23.22	23.61
	8H	19.95	21.21	20.38	21.60	22.00	21.85	23.11	22.28	23.50	23.90
	12H	20.00	21.21	20.43	21.60	22.02	22.06	23.27	22.49	23.66	24.08
4H	2H	17.82	19.24	18.21	19.59	19.96	18.40	19.82	18.79	20.17	20.54
	3H	19.81	21.01	20.22	21.40	21.80	20.72	21.92	21.13	22.32	22.72
	4H	20.56	21.65	20.99	22.06	22.50	21.76	22.85	22.19	23.26	23.69
	6H	21.10	22.05	21.55	22.49	22.95	22.69	23.64	23.14	24.08	24.54
	8H	21.25	22.14	21.71	22.58	23.05	23.07	23.97	23.53	24.41	24.87
	12H	21.33	22.14	21.81	22.61	23.08	23.35	24.15	23.83	24.63	25.10
8H	4H	21.02	21.91	21.47	22.35	22.81	22.06	22.95	22.52	23.39	23.86
	6H	21.69	22.44	22.19	22.92	23.40	23.14	23.89	23.64	24.37	24.85
	8H	21.91	22.58	22.42	23.09	23.57	23.63	24.30	24.14	24.81	25.29
	12H	22.06	22.65	22.57	23.14	23.70	24.01	24.60	24.51	25.09	25.65
12H	4H	21.10	21.90	21.58	22.38	22.85	22.09	22.89	22.57	23.37	23.83
	6H	21.82	22.49	22.33	23.00	23.48	23.20	23.87	23.70	24.37	24.86
	8H	22.11	22.70	22.62	23.19	23.75	23.75	24.34	24.26	24.83	25.39