

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: P1587724

Luminaire Tested: 22CZSP-SB-47-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587724
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-47-L935-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

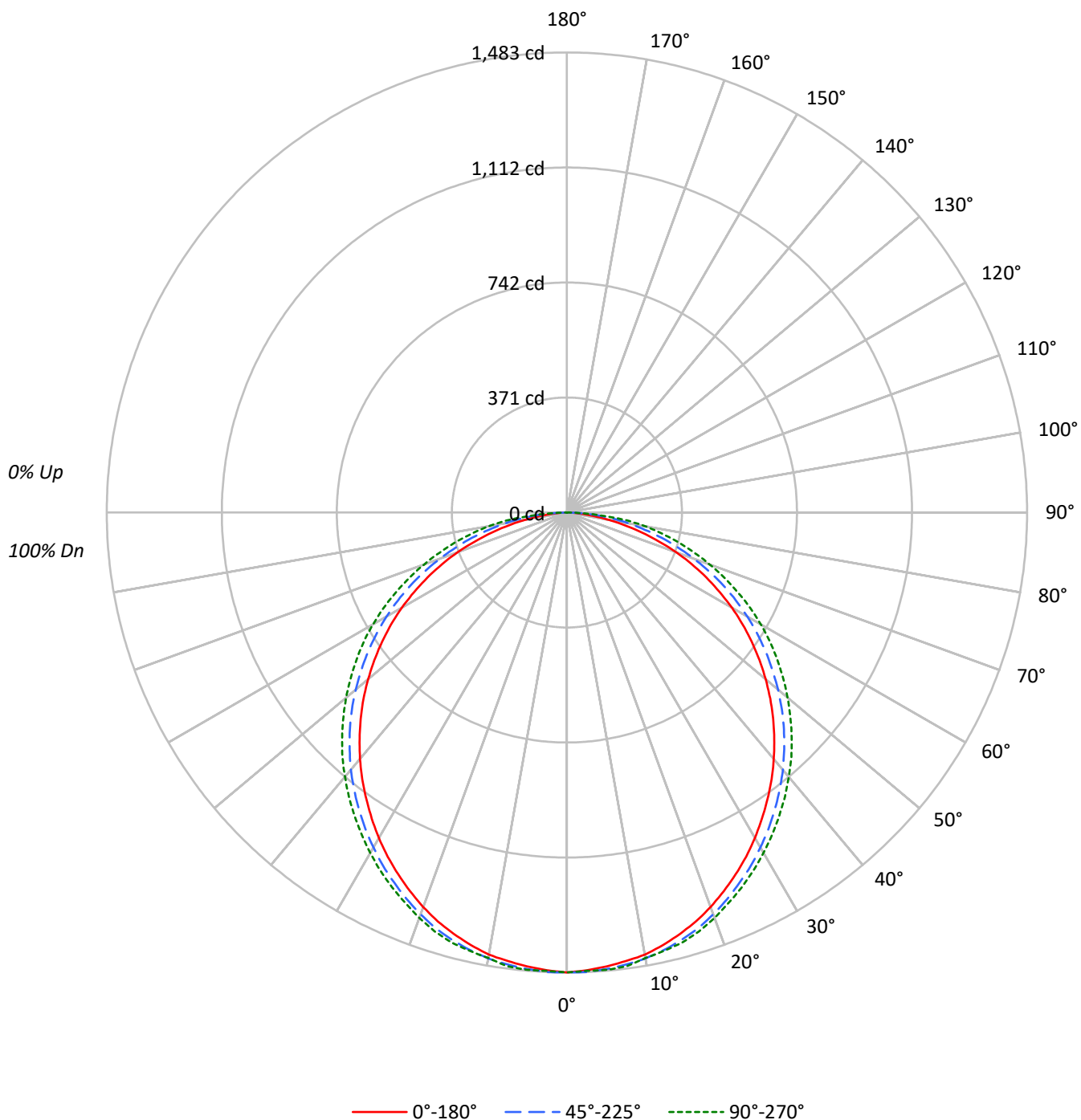
Lumens per Lamp: N/A
Luminaire Lumens: 4313.0 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1587724

CATALOG NUMBER: 22CZSP-SB-47-L935-S

Luminous Intensity Polar Plot



TEST NUMBER: P1587724

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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°	4643	4643	4643
5°	4617	4643	4652
10°	4602	4641	4637
15°	4560	4626	4653
20°	4511	4594	4635
25°	4446	4549	4607
30°	4381	4509	4583
35°	4309	4465	4561
40°	4240	4426	4548
45°	4162	4380	4536
50°	4073	4325	4525
55°	3971	4270	4518
60°	3847	4207	4520
65°	3671	4118	4496
70°	3431	3993	4485
75°	3042	3839	4502
80°	2476	3648	4634
85°	1599	3366	3999

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4697 cd/sqm

TEST NUMBER: P1587724

CATALOG NUMBER: 22CZSP-SB-47-L935-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	3.3
10°-20°	401.8	9.3
20°-30°	605.8	14.0
30°-40°	728.9	16.9
40°-50°	760.4	17.6
50°-60°	696.9	16.2
60°-70°	547.3	12.7
70°-80°	333.1	7.7
80°-90°	98.5	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°	1147.9	26.6
0°-40°	1876.8	43.5
0°-60°	3334.1	77.3
0°-90°	4313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1483	1483	1483	1483	1483	
5°	1469	1478	1477	1475	1480	140
15°	1407	1420	1427	1429	1435	397
25°	1287	1304	1317	1325	1333	593
35°	1127	1145	1168	1185	1193	705
45°	940	959	989	1012	1024	725
55°	727	746	782	814	828	650
65°	496	514	556	593	607	490
75°	251	275	317	355	372	267
85°	44	63	94	105	111	58
90°	0	0	0	0	0	

TEST NUMBER: P1587724

CATALOG NUMBER: 22CZSP-SB-47-L935-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1482.7	1482.7	1482.7	1482.7	1482.7
2.5°	1477.1	1484.5	1482.7	1476.2	1478.9
5°	1468.7	1478.0	1477.1	1475.2	1479.9
7.5°	1458.5	1468.7	1469.7	1469.7	1475.2
10°	1447.4	1457.6	1459.5	1456.7	1458.5
12.5°	1428.8	1440.9	1444.6	1444.6	1447.4
15°	1406.6	1420.5	1427.0	1428.8	1435.3
17.5°	1382.5	1397.3	1405.7	1410.3	1415.9
20°	1353.7	1369.5	1378.7	1384.3	1390.8
22.5°	1321.2	1338.8	1349.1	1354.6	1362.0
25°	1286.9	1304.5	1316.6	1324.9	1333.3
27.5°	1250.7	1267.4	1284.1	1294.3	1301.7
30°	1211.7	1229.4	1247.0	1260.0	1267.4
32.5°	1170.0	1188.5	1209.0	1222.9	1231.2
35°	1127.3	1144.9	1168.1	1184.8	1193.2
37.5°	1083.7	1102.3	1126.4	1144.0	1154.2
40°	1037.3	1056.8	1082.8	1102.3	1112.5
42.5°	989.1	1007.6	1036.4	1058.6	1070.7
45°	939.9	959.4	989.1	1012.3	1024.3
47.5°	888.9	907.4	939.9	966.8	977.0
50°	836.0	853.6	887.9	916.7	928.8
52.5°	782.2	800.7	835.0	865.7	878.6
55°	727.4	746.0	782.2	813.7	827.6
57.5°	671.7	690.3	727.4	759.9	776.6
60°	614.2	632.8	671.7	705.1	721.8
62.5°	554.8	574.3	614.2	648.5	666.2
65°	495.5	514.0	555.8	592.9	606.8
67.5°	436.1	454.6	495.5	532.6	549.3
70°	374.8	396.2	436.1	475.0	489.9
72.5°	310.8	334.9	374.8	415.7	430.5
75°	251.4	274.6	317.3	355.4	372.1
77.5°	193.0	218.0	257.9	296.9	313.6
80°	137.3	161.4	202.3	239.4	257.0
82.5°	87.2	108.6	149.4	182.8	195.8
85°	44.5	63.1	93.7	104.8	111.3
87.5°	13.0	22.3	33.4	41.8	46.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587724

CATALOG NUMBER: 22CZSP-SB-47-L935-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	16.83	18.49	17.20	18.81	19.12	17.57	19.23	17.93	19.54	19.86
	3H	18.60	20.11	18.98	20.43	20.79	19.65	21.15	20.02	21.48	21.84
	4H	19.22	20.64	19.62	20.99	21.36	20.51	21.93	20.91	22.28	22.66
	6H	19.63	20.95	20.04	21.31	21.70	21.26	22.58	21.67	22.94	23.33
	8H	19.73	20.99	20.16	21.38	21.78	21.55	22.81	21.98	23.20	23.60
	12H	19.78	20.99	20.21	21.37	21.80	21.75	22.95	22.18	23.34	23.76
4H	2H	17.60	19.02	18.00	19.37	19.74	18.17	19.59	18.57	19.94	20.32
	3H	19.59	20.79	20.00	21.19	21.58	20.49	21.68	20.90	22.08	22.48
	4H	20.34	21.42	20.77	21.83	22.27	21.51	22.59	21.94	23.00	23.44
	6H	20.86	21.81	21.32	22.25	22.71	22.41	23.36	22.86	23.80	24.25
	8H	21.01	21.90	21.46	22.34	22.80	22.78	23.67	23.24	24.11	24.57
	12H	21.09	21.89	21.57	22.36	22.83	23.03	23.83	23.51	24.31	24.78
8H	4H	20.78	21.67	21.24	22.11	22.58	21.80	22.69	22.26	23.13	23.60
	6H	21.44	22.19	21.94	22.67	23.15	22.86	23.60	23.35	24.09	24.56
	8H	21.65	22.32	22.16	22.82	23.31	23.33	24.00	23.84	24.50	24.99
	12H	21.79	22.38	22.30	22.87	23.43	23.68	24.27	24.19	24.76	25.32
12H	4H	20.86	21.66	21.34	22.14	22.61	21.83	22.63	22.31	23.10	23.57
	6H	21.57	22.24	22.07	22.74	23.22	22.91	23.58	23.42	24.08	24.57
	8H	21.85	22.43	22.35	22.92	23.48	23.45	24.04	23.95	24.53	25.09