

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: P1587729

Luminaire Tested: 22CZSP-SB-47-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587729
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-L945
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 4500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

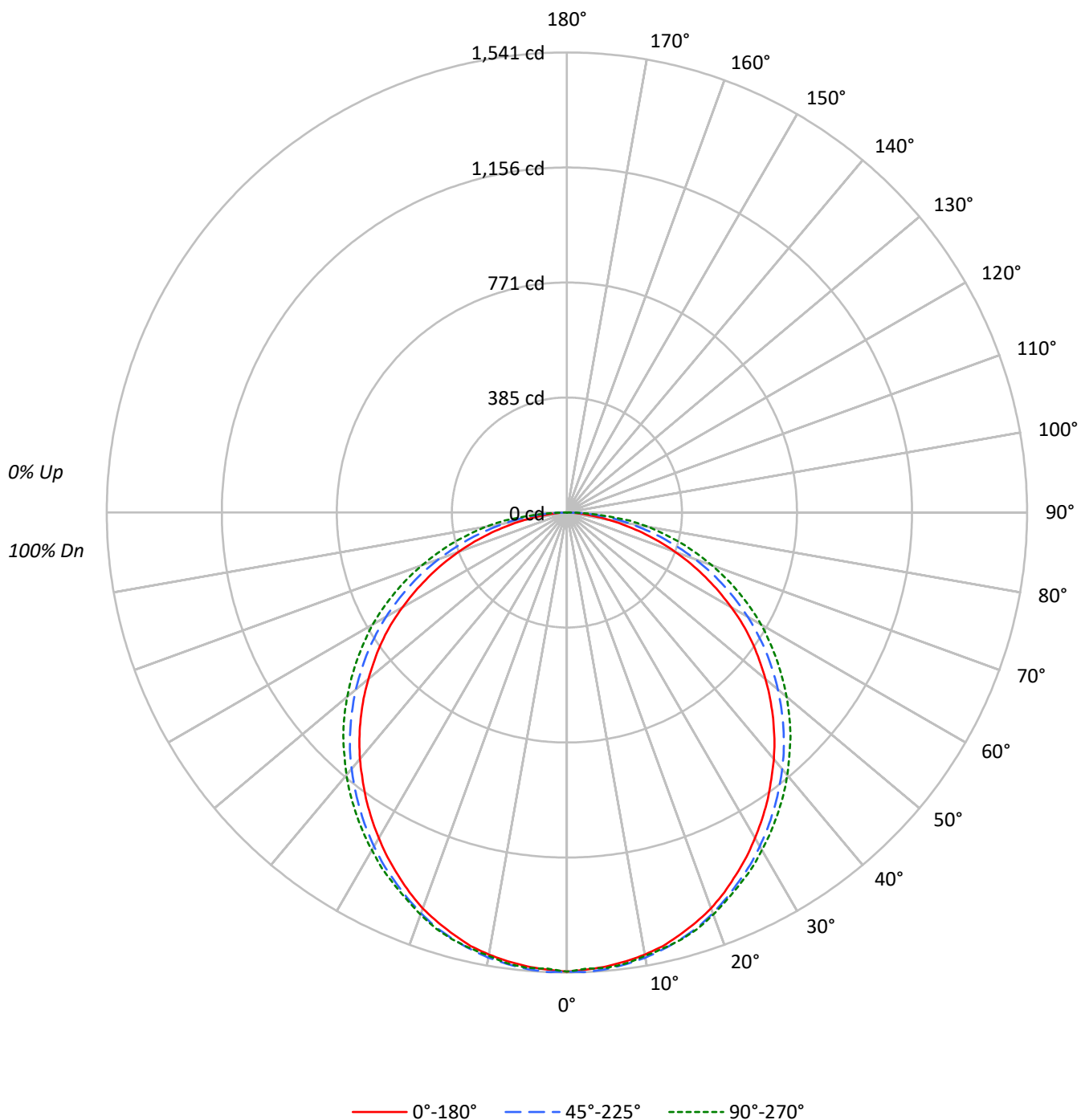
Lumens per Lamp: N/A
Luminaire Lumens: 4488.0 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

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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	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°	4816	4816	4816
5°	4798	4825	4813
10°	4781	4814	4796
15°	4745	4795	4801
20°	4704	4761	4777
25°	4627	4710	4742
30°	4554	4671	4723
35°	4481	4626	4706
40°	4407	4586	4694
45°	4324	4543	4690
50°	4229	4493	4678
55°	4133	4444	4678
60°	3980	4378	4706
65°	3794	4293	4709
70°	3539	4174	4722
75°	3149	4023	4804
80°	2586	3854	4984
85°	1707	3618	4505

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5105 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	3.2
10°-20°	416.4	9.3
20°-30°	627.6	14.0
30°-40°	755.8	16.8
40°-50°	789.6	17.6
50°-60°	725.4	16.2
60°-70°	571.3	12.7
70°-80°	350.2	7.8
80°-90°	106.2	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°	1189.5	26.5
0°-40°	1945.3	43.3
0°-60°	3460.3	77.1
0°-90°	4488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1538	1538	1538	1538	1538	
5°	1526	1529	1535	1533	1531	145
15°	1464	1470	1479	1485	1481	413
25°	1339	1348	1363	1377	1373	617
35°	1172	1187	1210	1232	1231	733
45°	976	997	1026	1054	1059	753
55°	757	779	814	849	857	675
65°	512	539	579	618	636	506
75°	260	291	332	372	397	277
85°	48	70	101	112	125	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1537.9	1537.9	1537.9	1537.9	1537.9
2.5°	1532.2	1536.0	1540.7	1533.1	1529.3
5°	1526.5	1529.3	1535.0	1533.1	1531.2
7.5°	1516.0	1517.9	1525.5	1525.5	1523.6
10°	1503.7	1507.5	1514.1	1513.2	1508.4
12.5°	1487.5	1490.4	1498.0	1498.0	1495.1
15°	1463.8	1469.5	1479.0	1484.7	1480.9
17.5°	1439.1	1444.8	1457.1	1462.8	1460.9
20°	1411.5	1416.3	1428.6	1437.2	1433.4
22.5°	1377.3	1383.0	1397.3	1406.8	1403.0
25°	1339.3	1347.9	1363.1	1377.3	1372.6
27.5°	1301.3	1310.8	1329.8	1344.1	1342.2
30°	1259.5	1271.9	1291.8	1309.9	1306.1
32.5°	1216.8	1231.0	1251.9	1270.9	1270.0
35°	1172.2	1187.4	1210.1	1232.0	1231.0
37.5°	1124.7	1142.7	1166.5	1190.2	1191.2
40°	1078.1	1095.2	1121.8	1147.5	1148.4
42.5°	1028.7	1046.8	1075.3	1101.9	1102.8
45°	976.5	997.4	1025.9	1054.4	1059.1
47.5°	923.3	945.1	974.6	1005.0	1010.7
50°	868.2	891.0	922.3	954.6	960.3
52.5°	812.1	835.9	868.2	900.5	909.0
55°	757.1	778.9	814.0	849.2	856.8
57.5°	699.1	719.1	757.1	794.1	803.6
60°	635.5	660.2	699.1	736.2	751.4
62.5°	573.7	600.3	640.2	677.3	694.4
65°	512.0	538.6	579.4	618.4	635.5
67.5°	449.3	476.8	520.5	557.6	576.6
70°	386.6	414.1	455.9	495.8	515.8
72.5°	323.9	353.4	394.2	435.0	455.0
75°	260.3	290.7	332.5	372.4	397.1
77.5°	200.4	229.9	271.7	312.5	333.4
80°	143.4	172.9	213.7	254.6	276.4
82.5°	91.2	118.7	158.6	192.8	212.8
85°	47.5	70.3	100.7	112.1	125.4
87.5°	14.2	27.5	38.9	43.7	54.1
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	16.98	18.64	17.34	18.95	19.27	17.72	19.38	18.09	19.70	20.01
	3H	18.74	20.24	19.11	20.57	20.93	19.82	21.32	20.19	21.65	22.01
	4H	19.36	20.78	19.76	21.13	21.51	20.70	22.12	21.10	22.47	22.85
	6H	19.77	21.10	20.18	21.46	21.85	21.47	22.79	21.88	23.15	23.54
	8H	19.88	21.14	20.30	21.53	21.93	21.78	23.04	22.20	23.43	23.83
	12H	19.93	21.14	20.36	21.52	21.95	21.99	23.20	22.42	23.58	24.01
4H	2H	17.75	19.17	18.14	19.51	19.89	18.32	19.75	18.72	20.09	20.47
	3H	19.74	20.94	20.15	21.33	21.73	20.65	21.85	21.06	22.25	22.65
	4H	20.49	21.58	20.92	21.99	22.43	21.69	22.77	22.12	23.19	23.62
	6H	21.03	21.98	21.48	22.42	22.87	22.62	23.57	23.07	24.01	24.46
	8H	21.18	22.07	21.63	22.51	22.97	23.00	23.89	23.46	24.34	24.80
	12H	21.26	22.07	21.74	22.54	23.01	23.28	24.08	23.76	24.56	25.02
8H	4H	20.94	21.84	21.40	22.28	22.74	21.99	22.88	22.45	23.32	23.79
	6H	21.62	22.37	22.11	22.85	23.33	23.07	23.82	23.56	24.30	24.78
	8H	21.84	22.51	22.35	23.02	23.50	23.56	24.23	24.07	24.73	25.22
	12H	21.99	22.58	22.49	23.07	23.63	23.93	24.53	24.44	25.02	25.57
12H	4H	21.03	21.83	21.51	22.31	22.77	22.02	22.82	22.49	23.29	23.76
	6H	21.75	22.42	22.26	22.92	23.41	23.12	23.79	23.63	24.30	24.78
	8H	22.04	22.63	22.55	23.12	23.68	23.68	24.27	24.18	24.76	25.32