

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: P1587712

Luminaire Tested: 22CZSP-SB-47-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587712
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-L830-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

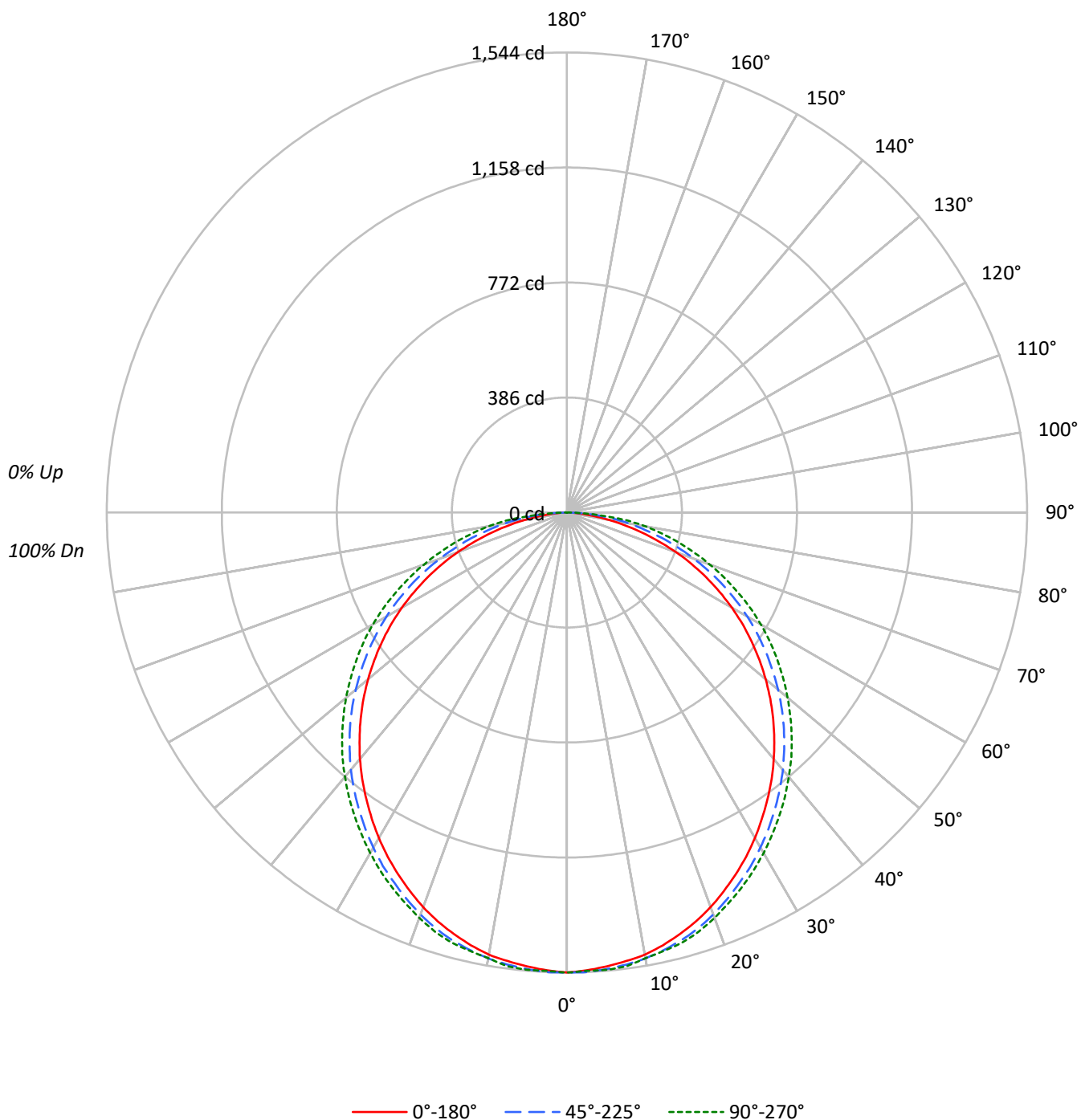
Lumens per Lamp: N/A
Luminaire Lumens: 4491.0 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	4834	4834	4834
5°	4807	4835	4844
10°	4792	4832	4829
15°	4748	4817	4845
20°	4697	4784	4826
25°	4630	4737	4797
30°	4562	4695	4772
35°	4487	4649	4749
40°	4415	4609	4735
45°	4334	4561	4723
50°	4241	4504	4711
55°	4135	4446	4705
60°	4006	4381	4707
65°	3822	4288	4681
70°	3573	4157	4670
75°	3167	3997	4687
80°	2579	3798	4826
85°	1667	3507	4164

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4892 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	3.3
10°-20°	418.4	9.3
20°-30°	630.8	14.0
30°-40°	759.0	16.9
40°-50°	791.7	17.6
50°-60°	725.7	16.2
60°-70°	569.8	12.7
70°-80°	346.8	7.7
80°-90°	102.6	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°	1195.3	26.6
0°-40°	1954.3	43.5
0°-60°	3471.7	77.3
0°-90°	4491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4491.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1529	1539	1538	1536	1541	145
15°	1465	1479	1486	1488	1495	413
25°	1340	1358	1371	1380	1388	618
35°	1174	1192	1216	1234	1242	735
45°	979	999	1030	1054	1067	755
55°	757	777	814	847	862	677
65°	516	535	579	617	632	510
75°	262	286	330	370	387	278
85°	46	66	98	109	116	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1543.9	1543.9	1543.9	1543.9	1543.9
2.5°	1538.1	1545.8	1543.9	1537.1	1540.0
5°	1529.4	1539.0	1538.1	1536.1	1541.0
7.5°	1518.7	1529.4	1530.3	1530.3	1536.1
10°	1507.1	1517.8	1519.7	1516.8	1518.7
12.5°	1487.8	1500.4	1504.2	1504.2	1507.1
15°	1464.6	1479.1	1485.9	1487.8	1494.6
17.5°	1439.5	1455.0	1463.7	1468.5	1474.3
20°	1409.6	1426.0	1435.6	1441.4	1448.2
22.5°	1375.7	1394.1	1404.7	1410.5	1418.3
25°	1340.0	1358.4	1370.9	1379.6	1388.3
27.5°	1302.3	1319.7	1337.1	1347.7	1355.5
30°	1261.7	1280.1	1298.5	1312.0	1319.7
32.5°	1218.3	1237.6	1258.8	1273.3	1282.0
35°	1173.8	1192.2	1216.3	1233.7	1242.4
37.5°	1128.4	1147.7	1172.9	1191.2	1201.8
40°	1080.1	1100.4	1127.5	1147.7	1158.4
42.5°	1029.9	1049.2	1079.1	1102.3	1114.9
45°	978.7	999.0	1029.9	1054.0	1066.6
47.5°	925.5	944.9	978.7	1006.7	1017.3
50°	870.5	888.8	924.6	954.5	967.1
52.5°	814.4	833.8	869.5	901.4	914.9
55°	757.4	776.8	814.4	847.3	861.8
57.5°	699.5	718.8	757.4	791.2	808.6
60°	639.6	658.9	699.5	734.2	751.6
62.5°	577.7	598.0	639.6	675.3	693.7
65°	515.9	535.2	578.7	617.3	631.8
67.5°	454.1	473.4	515.9	554.5	571.9
70°	390.3	412.5	454.1	494.7	510.1
72.5°	323.6	348.8	390.3	432.8	448.3
75°	261.8	286.0	330.4	370.0	387.4
77.5°	201.0	227.0	268.6	309.2	326.5
80°	143.0	168.1	210.6	249.3	267.6
82.5°	90.8	113.0	155.5	190.3	203.9
85°	46.4	65.7	97.6	109.2	115.9
87.5°	13.5	23.2	34.8	43.5	48.3
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	16.97	18.63	17.34	18.95	19.26	17.71	19.37	18.07	19.68	20.00
	3H	18.74	20.25	19.12	20.57	20.93	19.79	21.29	20.16	21.62	21.98
	4H	19.36	20.78	19.76	21.13	21.50	20.65	22.07	21.05	22.42	22.80
	6H	19.77	21.09	20.18	21.45	21.84	21.40	22.72	21.81	23.08	23.47
	8H	19.87	21.13	20.30	21.52	21.92	21.69	22.95	22.12	23.34	23.74
	12H	19.92	21.13	20.35	21.51	21.94	21.89	23.09	22.32	23.48	23.90
4H	2H	17.74	19.16	18.14	19.51	19.88	18.31	19.73	18.71	20.08	20.46
	3H	19.73	20.93	20.14	21.33	21.73	20.63	21.82	21.04	22.22	22.62
	4H	20.48	21.56	20.91	21.97	22.41	21.65	22.73	22.08	23.14	23.58
	6H	21.01	21.95	21.46	22.39	22.85	22.55	23.50	23.00	23.94	24.39
	8H	21.15	22.04	21.61	22.48	22.94	22.92	23.81	23.38	24.25	24.71
	12H	21.23	22.03	21.71	22.50	22.97	23.17	23.97	23.65	24.45	24.92
8H	4H	20.92	21.81	21.38	22.25	22.72	21.94	22.83	22.40	23.27	23.74
	6H	21.59	22.33	22.08	22.81	23.29	23.00	23.74	23.49	24.23	24.70
	8H	21.79	22.46	22.30	22.97	23.45	23.47	24.14	23.98	24.64	25.13
	12H	21.93	22.52	22.44	23.01	23.57	23.82	24.41	24.33	24.90	25.46
12H	4H	21.00	21.80	21.48	22.28	22.75	21.97	22.77	22.45	23.24	23.71
	6H	21.71	22.38	22.22	22.88	23.37	23.05	23.72	23.56	24.22	24.71
	8H	21.99	22.58	22.49	23.07	23.62	23.59	24.18	24.09	24.67	25.23