

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: P1586432

Luminaire Tested: 22CZSP-47-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-47-L830-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

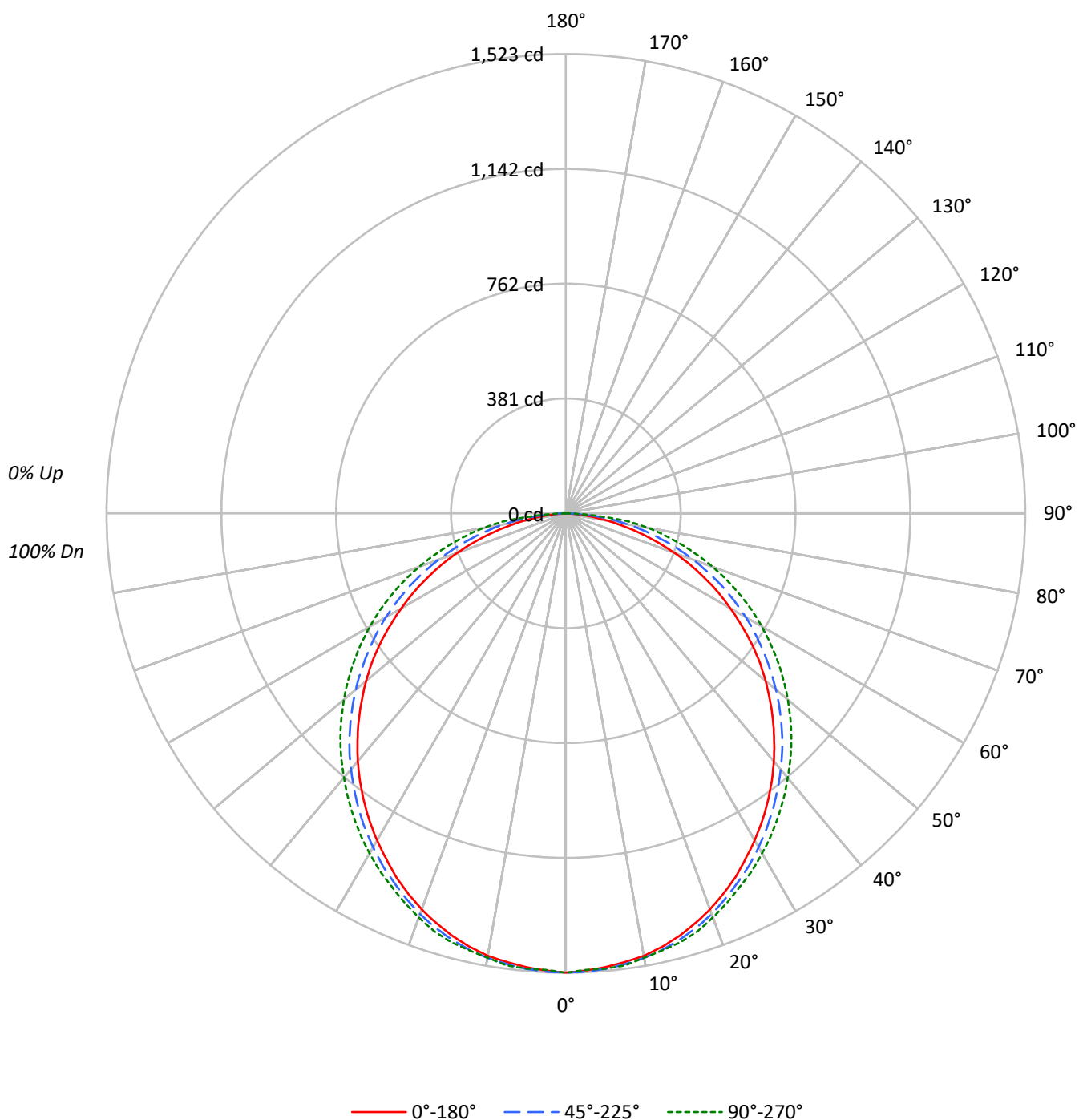
Lumens per Lamp: N/A
Luminaire Lumens: 4446.0 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	69
3	89	79	70	64	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°	4769	4769	4769
5°	4747	4765	4762
10°	4737	4758	4755
15°	4703	4741	4769
20°	4655	4711	4750
25°	4598	4662	4719
30°	4526	4621	4706
35°	4460	4576	4692
40°	4386	4530	4678
45°	4303	4484	4683
50°	4211	4429	4681
55°	4101	4367	4687
60°	3947	4319	4698
65°	3766	4236	4713
70°	3510	4117	4734
75°	3127	3954	4780
80°	2586	3765	5013
85°	1681	3399	4380

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5172 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	3.2
10°-20°	412.4	9.3
20°-30°	622.0	14.0
30°-40°	749.1	16.8
40°-50°	782.4	17.6
50°-60°	718.5	16.2
60°-70°	565.9	12.7
70°-80°	347.2	7.8
80°-90°	104.5	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°	1178.4	26.5
0°-40°	1927.5	43.4
0°-60°	3428.4	77.1
0°-90°	4446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1510	1512	1516	1521	1515	143
15°	1451	1454	1462	1471	1471	409
25°	1331	1334	1349	1366	1366	613
35°	1167	1173	1197	1221	1227	730
45°	972	982	1013	1048	1058	749
55°	751	765	800	845	858	671
65°	508	526	572	620	636	503
75°	258	279	327	378	395	274
85°	47	64	95	120	122	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1522.9	1522.9	1522.9	1522.9	1522.9
2.5°	1517.0	1519.9	1520.9	1521.9	1515.1
5°	1510.2	1512.1	1516.0	1520.9	1515.1
7.5°	1500.4	1502.4	1507.3	1514.1	1511.2
10°	1489.7	1490.7	1496.5	1501.4	1495.6
12.5°	1472.1	1475.1	1481.9	1485.8	1483.9
15°	1450.7	1453.6	1462.4	1471.2	1471.2
17.5°	1425.3	1429.2	1439.9	1451.7	1452.6
20°	1397.0	1400.0	1413.6	1425.3	1425.3
22.5°	1364.8	1368.7	1382.4	1395.1	1397.0
25°	1330.7	1333.6	1349.2	1365.8	1365.8
27.5°	1290.7	1296.5	1316.1	1332.6	1336.5
30°	1251.7	1256.5	1278.0	1298.5	1301.4
32.5°	1210.7	1216.5	1239.0	1261.4	1266.3
35°	1166.8	1172.6	1197.0	1221.4	1227.3
37.5°	1120.9	1127.8	1153.1	1181.4	1187.3
40°	1073.1	1080.9	1108.3	1138.5	1144.4
42.5°	1022.4	1033.1	1062.4	1093.6	1102.4
45°	971.7	982.4	1012.6	1047.8	1057.5
47.5°	918.0	930.7	961.9	999.0	1009.7
50°	864.4	877.0	909.2	949.2	960.9
52.5°	809.7	822.4	855.6	897.5	910.2
55°	751.2	764.9	800.0	844.8	858.5
57.5°	690.7	708.3	745.3	791.2	804.8
60°	630.2	647.8	689.7	734.6	750.2
62.5°	570.7	587.3	630.2	678.0	694.6
65°	508.3	525.8	571.7	619.5	636.1
67.5°	446.8	464.4	510.2	560.0	577.5
70°	383.4	402.9	449.7	499.5	517.1
72.5°	320.0	340.5	388.3	439.0	455.6
75°	258.5	279.0	326.8	378.5	395.1
77.5°	198.0	220.5	267.3	320.0	335.6
80°	143.4	164.9	208.8	260.5	278.0
82.5°	91.7	110.2	154.1	202.9	215.6
85°	46.8	64.4	94.6	120.0	121.9
87.5°	14.6	20.5	31.2	46.8	47.8
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	16.91	18.57	17.27	18.88	19.20	17.74	19.40	18.10	19.71	20.03
	3H	18.66	20.17	19.04	20.49	20.85	19.85	21.36	20.23	21.69	22.05
	4H	19.28	20.70	19.68	21.05	21.42	20.74	22.16	21.14	22.51	22.88
	6H	19.69	21.01	20.10	21.37	21.76	21.52	22.84	21.93	23.21	23.60
	8H	19.80	21.06	20.22	21.45	21.85	21.84	23.10	22.27	23.49	23.89
	12H	19.85	21.06	20.28	21.44	21.87	22.05	23.26	22.48	23.65	24.07
4H	2H	17.68	19.10	18.07	19.45	19.82	18.32	19.75	18.72	20.09	20.47
	3H	19.65	20.85	20.06	21.25	21.65	20.68	21.88	21.09	22.27	22.67
	4H	20.39	21.48	20.82	21.89	22.32	21.73	22.82	22.16	23.23	23.66
	6H	20.92	21.87	21.37	22.31	22.77	22.68	23.63	23.14	24.07	24.53
	8H	21.07	21.96	21.52	22.40	22.86	23.08	23.97	23.54	24.41	24.88
	12H	21.15	21.95	21.63	22.43	22.90	23.36	24.16	23.84	24.63	25.10
8H	4H	20.85	21.74	21.31	22.18	22.65	22.02	22.91	22.48	23.35	23.82
	6H	21.51	22.26	22.00	22.74	23.22	23.13	23.88	23.62	24.36	24.84
	8H	21.72	22.39	22.23	22.90	23.38	23.64	24.31	24.15	24.82	25.30
	12H	21.86	22.45	22.37	22.94	23.50	24.03	24.62	24.53	25.11	25.67
12H	4H	20.94	21.74	21.42	22.22	22.69	22.04	22.85	22.52	23.32	23.79
	6H	21.64	22.31	22.15	22.82	23.30	23.18	23.85	23.69	24.35	24.84
	8H	21.92	22.51	22.43	23.00	23.56	23.76	24.35	24.26	24.84	25.40