

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: P1584312

Luminaire Tested: 14CZSP-47-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-47-L830-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

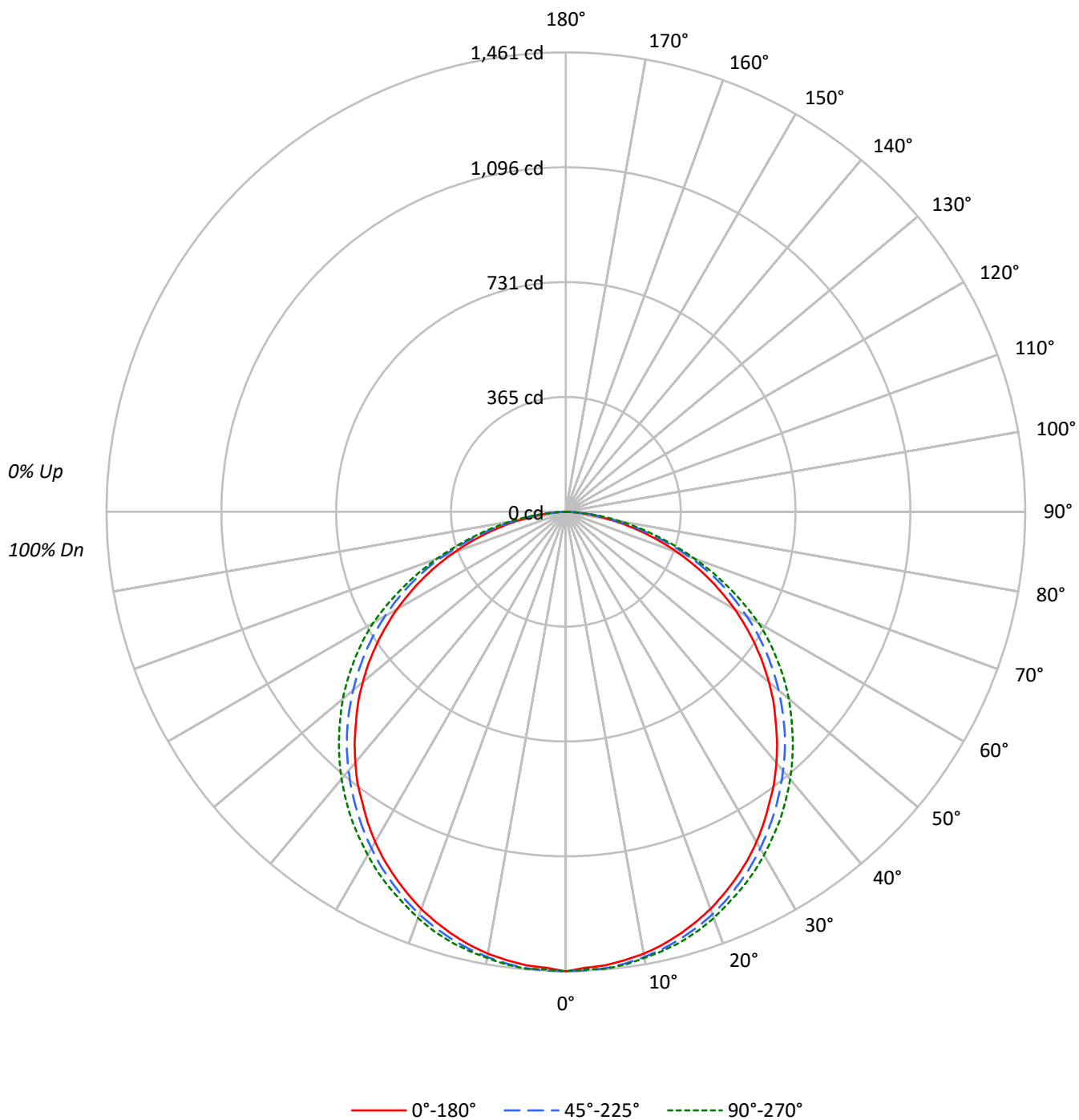
Lumens per Lamp: N/A
Luminaire Lumens: 4225.0 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 32.8
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: P1584312

CATALOG NUMBER: 14CZSP-47-L830-S

Luminous Intensity Polar Plot



TEST NUMBER: P1584312

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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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4924	4924	4924
5°	4897	4929	4933
10°	4883	4920	4930
15°	4855	4905	4940
20°	4821	4886	4931
25°	4772	4849	4915
30°	4718	4810	4905
35°	4643	4768	4896
40°	4582	4729	4883
45°	4496	4688	4863
50°	4421	4632	4854
55°	4314	4567	4823
60°	4182	4476	4773
65°	3996	4353	4577
70°	3725	4111	4294
75°	3328	3708	3919
80°	2726	3126	3427
85°	1829	2285	2548

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4863 cd/sqm

TEST NUMBER: P1584312

CATALOG NUMBER: 14CZSP-47-L830-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	3.3
10°-20°	396.8	9.4
20°-30°	600.8	14.2
30°-40°	725.6	17.2
40°-50°	758.3	17.9
50°-60°	694.9	16.4
60°-70°	536.4	12.7
70°-80°	301.7	7.1
80°-90°	72.2	1.7
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°	1136.0	26.9
0°-40°	1861.6	44.1
0°-60°	3314.8	78.5
0°-90°	4225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4225.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1461	1461	1461	1461	1461	
5°	1448	1458	1457	1458	1458	138
15°	1392	1403	1406	1412	1416	393
25°	1284	1295	1304	1311	1322	592
35°	1129	1143	1159	1175	1190	707
45°	943	962	984	1004	1020	729
55°	734	754	777	802	821	656
65°	501	523	546	568	574	495
75°	256	279	285	297	301	271
85°	47	54	59	65	66	61
90°	0	0	0	0	0	

TEST NUMBER: P1584312

CATALOG NUMBER: 14CZSP-47-L830-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1461.4	1461.4	1461.4	1461.4	1461.4
2.5°	1451.5	1462.7	1460.2	1463.9	1457.1
5°	1447.7	1458.3	1457.1	1458.3	1458.3
7.5°	1438.4	1449.6	1449.0	1450.9	1452.1
10°	1427.2	1437.8	1437.8	1439.7	1440.9
12.5°	1411.7	1422.9	1424.1	1427.2	1429.7
15°	1391.8	1403.0	1406.1	1411.7	1416.0
17.5°	1369.4	1381.2	1386.2	1391.8	1397.4
20°	1344.5	1355.1	1362.6	1366.9	1375.0
22.5°	1315.3	1327.1	1335.2	1339.5	1348.2
25°	1283.6	1294.8	1304.1	1310.9	1322.1
27.5°	1250.0	1261.2	1272.4	1280.5	1293.5
30°	1212.7	1224.5	1236.3	1248.7	1260.6
32.5°	1172.3	1185.9	1199.0	1212.7	1225.7
35°	1128.7	1143.0	1159.2	1174.7	1190.3
37.5°	1088.3	1101.4	1118.2	1134.9	1150.5
40°	1041.7	1056.0	1075.2	1093.9	1110.1
42.5°	994.4	1009.9	1031.1	1049.1	1066.5
45°	943.4	962.1	983.8	1003.7	1020.5
47.5°	896.1	912.3	934.1	955.8	973.3
50°	843.3	861.3	883.7	906.7	926.0
52.5°	789.8	808.5	831.5	854.5	874.4
55°	734.4	753.7	777.4	801.6	820.9
57.5°	677.9	698.4	722.6	746.9	766.2
60°	620.6	641.2	664.2	690.9	708.3
62.5°	560.9	584.0	605.7	630.6	641.2
65°	501.2	523.0	546.0	567.8	574.0
67.5°	440.3	462.7	483.2	497.5	505.6
70°	378.1	402.4	417.3	431.0	435.9
72.5°	316.5	340.8	349.5	362.6	367.5
75°	255.6	279.2	284.8	296.6	301.0
77.5°	196.5	218.3	220.1	233.8	237.6
80°	140.5	158.0	161.1	174.1	176.6
82.5°	90.2	102.6	107.0	118.2	121.9
85°	47.3	54.1	59.1	64.7	65.9
87.5°	15.5	19.3	16.2	16.8	15.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584312

CATALOG NUMBER: 14CZSP-47-L830-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	17.25	18.90	17.62	19.22	19.53	17.79	19.44	18.16	19.76	20.07
	3H	19.03	20.52	19.40	20.85	21.21	19.65	21.14	20.02	21.47	21.83
	4H	19.65	21.06	20.05	21.41	21.78	20.32	21.72	20.71	22.07	22.45
	6H	20.06	21.37	20.47	21.73	22.12	20.79	22.10	21.20	22.46	22.85
	8H	20.17	21.41	20.59	21.80	22.20	20.94	22.19	21.36	22.57	22.97
	12H	20.22	21.41	20.64	21.79	22.22	21.02	22.22	21.45	22.60	23.03
4H	2H	17.98	19.38	18.37	19.73	20.11	18.40	19.80	18.80	20.15	20.53
	3H	19.97	21.15	20.38	21.55	21.95	20.47	21.65	20.88	22.05	22.45
	4H	20.73	21.80	21.16	22.21	22.64	21.27	22.33	21.70	22.75	23.18
	6H	21.26	22.19	21.71	22.63	23.08	21.87	22.80	22.32	23.24	23.70
	8H	21.39	22.27	21.85	22.71	23.17	22.06	22.93	22.52	23.37	23.84
	12H	21.47	22.26	21.95	22.73	23.20	22.18	22.97	22.66	23.44	23.91
8H	4H	21.06	21.94	21.52	22.38	22.84	21.54	22.42	22.00	22.86	23.32
	6H	21.70	22.43	22.20	22.92	23.39	22.25	22.98	22.75	23.47	23.94
	8H	21.91	22.56	22.41	23.06	23.55	22.51	23.16	23.02	23.67	24.15
	12H	22.03	22.61	22.54	23.10	23.66	22.69	23.27	23.20	23.76	24.32
12H	4H	21.10	21.89	21.58	22.36	22.83	21.57	22.35	22.04	22.83	23.29
	6H	21.76	22.41	22.27	22.92	23.40	22.29	22.94	22.80	23.45	23.93
	8H	22.01	22.59	22.52	23.08	23.64	22.60	23.17	23.10	23.66	24.22