

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: P1584323

Luminaire Tested: 14CZSP-47-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-724-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-47-L930
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

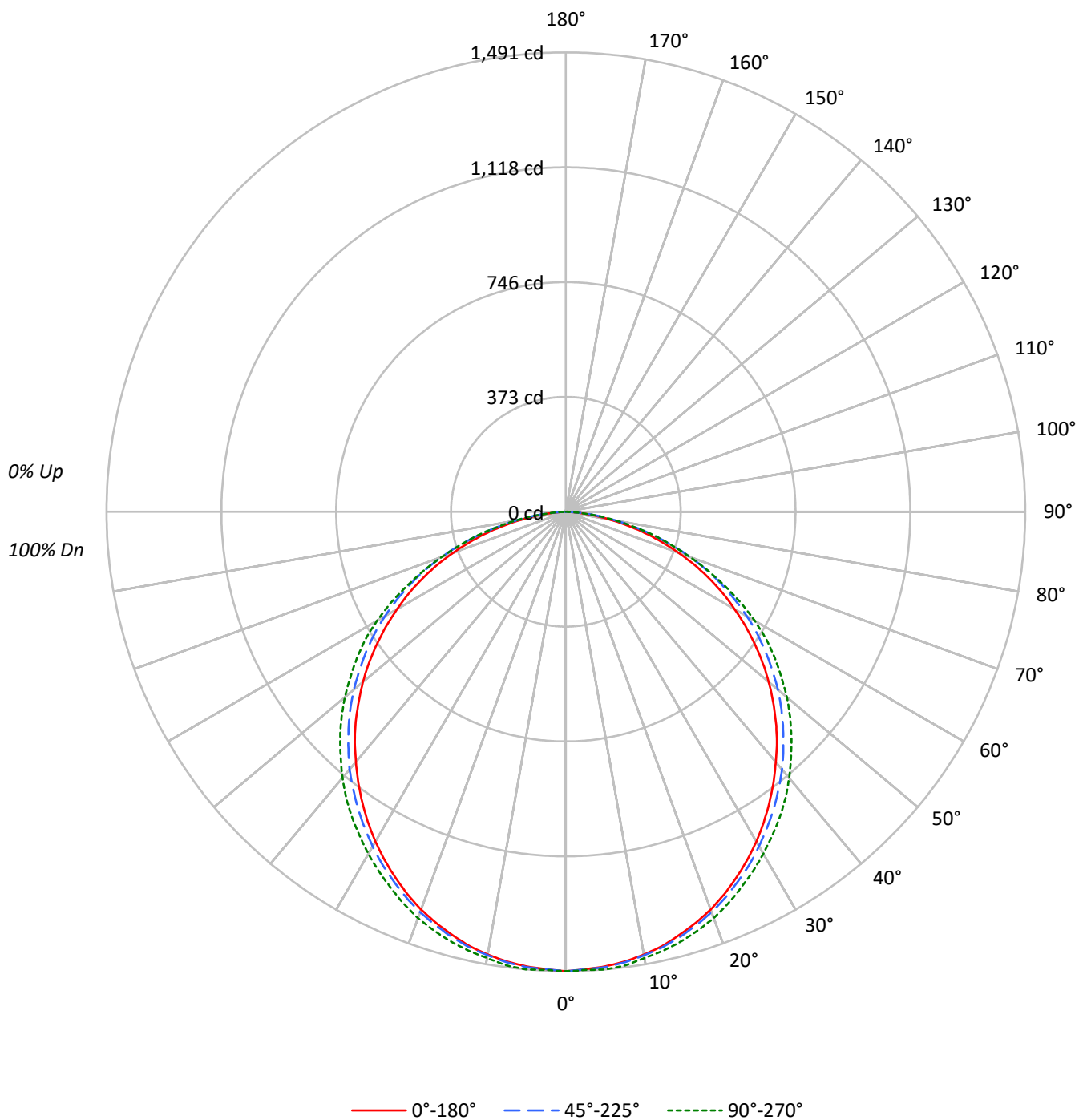
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4303.0 lumens
Efficiency: N/A
Efficacy: 131.2 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: P1584323
CATALOG NUMBER: 14CZSP-47-L930

Luminous Intensity Polar Plot



TEST NUMBER: P1584323

CATALOG NUMBER: 14CZSP-47-L930

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	53		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	29		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°	5025	5025	5025
5°	5010	5018	5044
10°	4993	5002	5033
15°	4962	4984	5038
20°	4927	4958	5032
25°	4871	4918	5004
30°	4809	4879	4988
35°	4738	4838	4980
40°	4663	4803	4960
45°	4596	4754	4936
50°	4507	4708	4909
55°	4399	4646	4864
60°	4264	4574	4771
65°	4099	4445	4537
70°	3846	4223	4223
75°	3454	3837	3854
80°	2847	3243	3243
85°	1972	2366	2072

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4936 cd/sqm

TEST NUMBER: P1584323

CATALOG NUMBER: 14CZSP-47-L930

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	3.3
10°-20°	404.6	9.4
20°-30°	612.3	14.2
30°-40°	739.2	17.2
40°-50°	772.3	17.9
50°-60°	707.5	16.4
60°-70°	545.4	12.7
70°-80°	307.7	7.2
80°-90°	72.8	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°	1158.1	26.9
0°-40°	1897.3	44.1
0°-60°	3377.0	78.5
0°-90°	4303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4303.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1491	1491	1491	1491	1491	
5°	1481	1491	1484	1486	1491	141
15°	1422	1431	1429	1440	1444	401
25°	1310	1322	1323	1341	1346	604
35°	1152	1167	1176	1202	1211	721
45°	964	981	998	1027	1036	743
55°	749	768	791	820	828	669
65°	514	531	558	577	569	508
75°	265	286	295	302	296	281
85°	51	57	61	65	54	64
90°	0	0	0	0	0	

TEST NUMBER: P1584323

CATALOG NUMBER: 14CZSP-47-L930

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1491.3	1491.3	1491.3	1491.3	1491.3
2.5°	1486.2	1496.4	1486.2	1491.3	1488.7
5°	1481.1	1491.3	1483.6	1486.2	1491.3
7.5°	1472.1	1482.4	1474.7	1478.5	1484.9
10°	1459.4	1469.6	1461.9	1468.3	1470.9
12.5°	1444.1	1453.0	1447.9	1455.6	1459.4
15°	1422.4	1431.3	1428.8	1440.3	1444.1
17.5°	1399.4	1409.6	1407.1	1421.1	1424.9
20°	1373.9	1382.8	1382.8	1395.6	1403.3
22.5°	1343.3	1353.5	1354.8	1368.8	1376.5
25°	1310.1	1321.6	1322.9	1340.7	1345.9
27.5°	1274.4	1285.9	1291.0	1310.1	1315.2
30°	1236.1	1247.6	1254.0	1275.7	1282.1
32.5°	1195.3	1209.4	1215.7	1240.0	1246.3
35°	1151.9	1167.3	1176.2	1201.7	1210.6
37.5°	1107.3	1122.6	1134.1	1160.9	1171.1
40°	1060.1	1076.7	1092.0	1118.8	1127.7
42.5°	1014.2	1030.8	1044.8	1072.9	1081.8
45°	964.4	981.0	997.6	1026.9	1035.9
47.5°	912.1	930.0	949.1	975.9	987.4
50°	859.8	877.7	898.1	926.2	936.4
52.5°	805.0	824.1	844.5	873.8	881.5
55°	748.8	768.0	790.9	820.3	827.9
57.5°	691.4	711.8	736.1	764.1	771.8
60°	632.7	653.2	678.7	705.5	708.0
62.5°	575.3	593.2	618.7	644.2	640.4
65°	514.1	530.7	557.5	576.6	569.0
67.5°	452.9	470.7	495.0	509.0	498.8
70°	390.4	409.5	428.6	438.8	428.6
72.5°	327.9	348.3	362.3	368.7	359.7
75°	265.3	285.8	294.7	302.3	296.0
77.5°	205.4	224.5	228.3	237.3	228.3
80°	146.7	164.6	167.1	176.0	167.1
82.5°	94.4	105.9	111.0	118.6	109.7
85°	51.0	57.4	61.2	65.1	53.6
87.5°	17.9	20.4	17.9	15.3	6.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584323
CATALOG NUMBER: 14CZSP-47-L930

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	17.32	18.97	17.69	19.29	19.60	17.87	19.51	18.23	19.83	20.14
	3H	19.11	20.60	19.49	20.93	21.29	19.67	21.17	20.05	21.49	21.85
	4H	19.75	21.16	20.15	21.50	21.88	20.32	21.72	20.72	22.07	22.45
	6H	20.17	21.48	20.58	21.84	22.23	20.76	22.06	21.17	22.43	22.82
	8H	20.28	21.53	20.71	21.92	22.31	20.88	22.13	21.30	22.51	22.91
	12H	20.34	21.53	20.76	21.91	22.34	20.94	22.13	21.37	22.51	22.94
4H	2H	18.05	19.45	18.45	19.80	20.18	18.47	19.88	18.87	20.23	20.60
	3H	20.05	21.24	20.46	21.63	22.03	20.51	21.69	20.92	22.09	22.49
	4H	20.82	21.89	21.25	22.30	22.74	21.29	22.36	21.72	22.77	23.21
	6H	21.37	22.30	21.82	22.74	23.20	21.86	22.79	22.31	23.23	23.69
	8H	21.51	22.39	21.97	22.83	23.29	22.02	22.90	22.48	23.34	23.80
	12H	21.60	22.38	22.08	22.86	23.33	22.11	22.90	22.59	23.37	23.84
8H	4H	21.17	22.04	21.63	22.48	22.95	21.58	22.45	22.04	22.89	23.36
	6H	21.82	22.55	22.32	23.04	23.51	22.26	22.99	22.75	23.47	23.95
	8H	22.03	22.68	22.54	23.19	23.67	22.49	23.14	23.00	23.65	24.13
	12H	22.17	22.74	22.67	23.23	23.79	22.64	23.22	23.15	23.71	24.27
12H	4H	21.20	21.99	21.68	22.46	22.93	21.60	22.39	22.08	22.86	23.33
	6H	21.88	22.53	22.39	23.04	23.52	22.30	22.95	22.81	23.46	23.94
	8H	22.14	22.71	22.64	23.20	23.76	22.58	23.16	23.09	23.65	24.21