

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: P1584622

Luminaire Tested: 14CZSP-A-47-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584622
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-A-47-L930-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

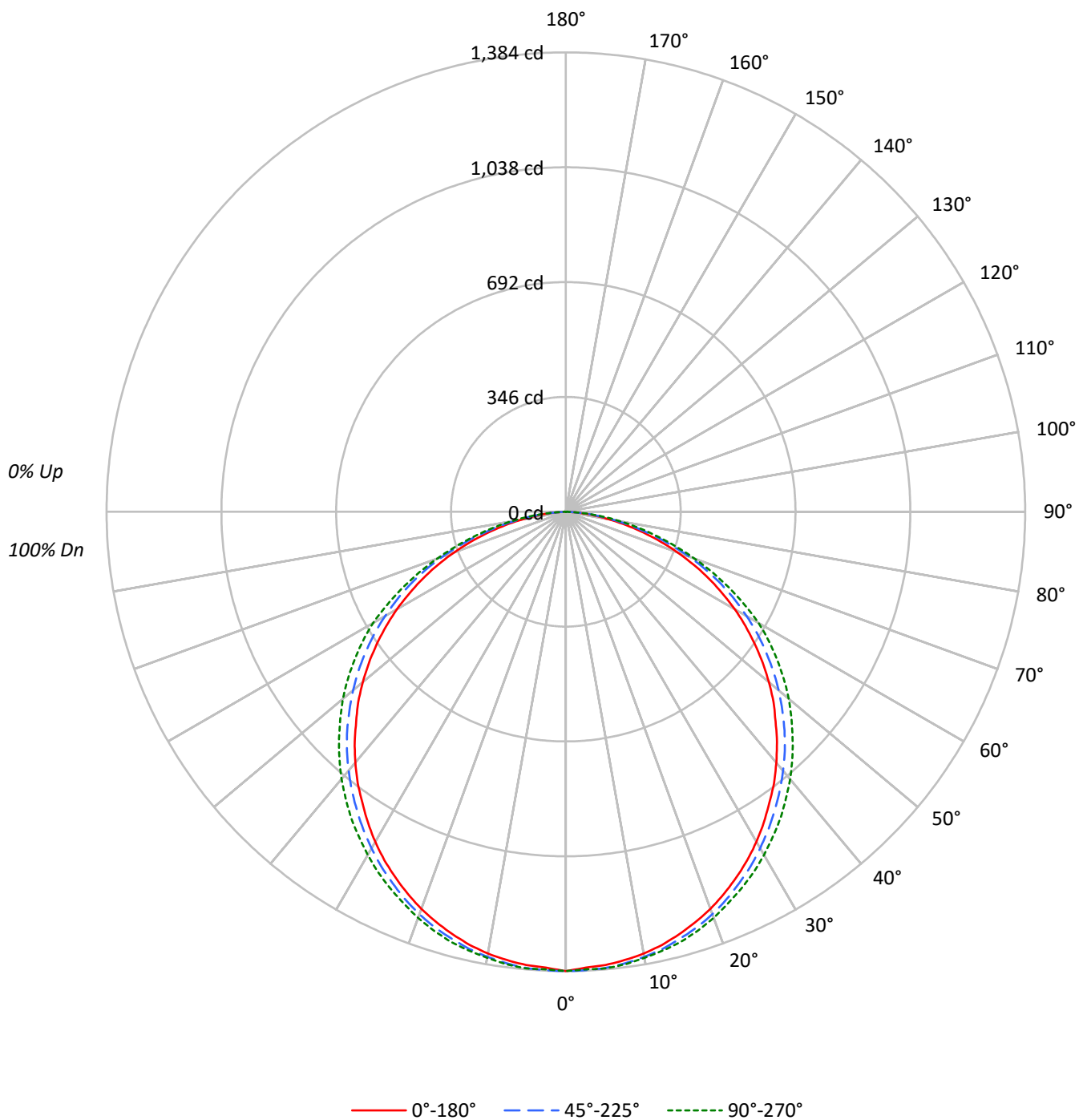
Lumens per Lamp: N/A
Luminaire Lumens: 4001.0 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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	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°	4663	4663	4663
5°	4637	4667	4671
10°	4625	4659	4669
15°	4598	4645	4678
20°	4565	4627	4669
25°	4519	4592	4655
30°	4468	4555	4645
35°	4397	4515	4637
40°	4339	4479	4624
45°	4257	4440	4605
50°	4186	4387	4597
55°	4086	4324	4567
60°	3961	4239	4521
65°	3785	4123	4334
70°	3528	3894	4067
75°	3151	3511	3710
80°	2583	2959	3246
85°	1732	2161	2412

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4605 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	3.3
10°-20°	375.8	9.4
20°-30°	569.0	14.2
30°-40°	687.1	17.2
40°-50°	718.1	17.9
50°-60°	658.0	16.4
60°-70°	507.9	12.7
70°-80°	285.7	7.1
80°-90°	68.4	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°	1075.8	26.9
0°-40°	1762.9	44.1
0°-60°	3139.0	78.5
0°-90°	4001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4001.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1371	1381	1380	1381	1381	130
15°	1318	1329	1332	1337	1341	372
25°	1216	1226	1235	1241	1252	560
35°	1069	1082	1098	1112	1127	670
45°	893	911	932	950	966	690
55°	696	714	736	759	777	621
65°	475	495	517	538	544	469
75°	242	264	270	281	285	257
85°	45	51	56	61	62	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1383.9	1383.9	1383.9	1383.9	1383.9
2.5°	1374.5	1385.1	1382.8	1386.3	1379.8
5°	1371.0	1381.0	1379.8	1381.0	1381.0
7.5°	1362.2	1372.8	1372.2	1373.9	1375.1
10°	1351.6	1361.6	1361.6	1363.3	1364.5
12.5°	1336.8	1347.4	1348.6	1351.6	1353.9
15°	1318.0	1328.6	1331.5	1336.8	1341.0
17.5°	1296.8	1308.0	1312.7	1318.0	1323.3
20°	1273.2	1283.2	1290.3	1294.4	1302.1
22.5°	1245.6	1256.7	1264.4	1268.5	1276.8
25°	1215.5	1226.1	1235.0	1241.4	1252.0
27.5°	1183.7	1194.3	1204.9	1212.6	1224.9
30°	1148.4	1159.6	1170.8	1182.5	1193.7
32.5°	1110.1	1123.1	1135.4	1148.4	1160.8
35°	1068.9	1082.4	1097.7	1112.5	1127.2
37.5°	1030.6	1043.0	1058.9	1074.8	1089.5
40°	986.4	1000.0	1018.2	1035.9	1051.2
42.5°	941.7	956.4	976.4	993.5	1010.0
45°	893.4	911.1	931.7	950.5	966.4
47.5°	848.6	863.9	884.5	905.2	921.7
50°	798.6	815.6	836.8	858.6	876.9
52.5°	747.9	765.6	787.4	809.2	828.0
55°	695.5	713.8	736.1	759.1	777.4
57.5°	641.9	661.4	684.3	707.3	725.5
60°	587.7	607.2	629.0	654.3	670.8
62.5°	531.2	553.0	573.6	597.2	607.2
65°	474.7	495.3	517.1	537.7	543.6
67.5°	417.0	438.2	457.6	471.1	478.8
70°	358.1	381.0	395.2	408.1	412.8
72.5°	299.8	322.7	331.0	343.3	348.0
75°	242.0	264.4	269.7	280.9	285.0
77.5°	186.1	206.7	208.5	221.4	225.0
80°	133.1	149.6	152.5	164.9	167.3
82.5°	85.4	97.2	101.3	111.9	115.4
85°	44.8	51.2	55.9	61.2	62.4
87.5°	14.7	18.3	15.3	15.9	14.7
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	17.06	18.71	17.43	19.03	19.34	17.60	19.25	17.97	19.57	19.88
	3H	18.84	20.33	19.21	20.66	21.02	19.46	20.95	19.84	21.28	21.64
	4H	19.46	20.87	19.86	21.22	21.59	20.13	21.53	20.53	21.88	22.26
	6H	19.87	21.18	20.28	21.54	21.93	20.60	21.91	21.01	22.27	22.66
	8H	19.98	21.22	20.40	21.61	22.01	20.75	22.00	21.17	22.39	22.78
	12H	20.03	21.22	20.46	21.60	22.03	20.83	22.03	21.26	22.41	22.84
4H	2H	17.79	19.19	18.18	19.54	19.92	18.21	19.62	18.61	19.96	20.34
	3H	19.78	20.96	20.19	21.36	21.76	20.28	21.46	20.69	21.86	22.26
	4H	20.54	21.61	20.97	22.02	22.45	21.08	22.14	21.51	22.56	22.99
	6H	21.07	22.00	21.52	22.44	22.89	21.68	22.61	22.13	23.05	23.51
	8H	21.21	22.08	21.67	22.52	22.99	21.87	22.74	22.33	23.19	23.65
	12H	21.28	22.07	21.76	22.54	23.01	21.99	22.78	22.47	23.25	23.72
8H	4H	20.88	21.75	21.33	22.19	22.66	21.35	22.23	21.81	22.67	23.13
	6H	21.52	22.24	22.01	22.73	23.20	22.06	22.79	22.56	23.28	23.75
	8H	21.72	22.37	22.22	22.87	23.36	22.32	22.97	22.83	23.48	23.96
	12H	21.85	22.42	22.35	22.91	23.47	22.50	23.08	23.01	23.57	24.13
12H	4H	20.91	21.70	21.39	22.17	22.64	21.38	22.16	21.86	22.64	23.11
	6H	21.57	22.22	22.08	22.73	23.21	22.10	22.75	22.61	23.26	23.74
	8H	21.82	22.40	22.33	22.89	23.45	22.41	22.98	22.92	23.47	24.03