

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: P1584330

Luminaire Tested: 14CZSP-47-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584330
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-L950-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

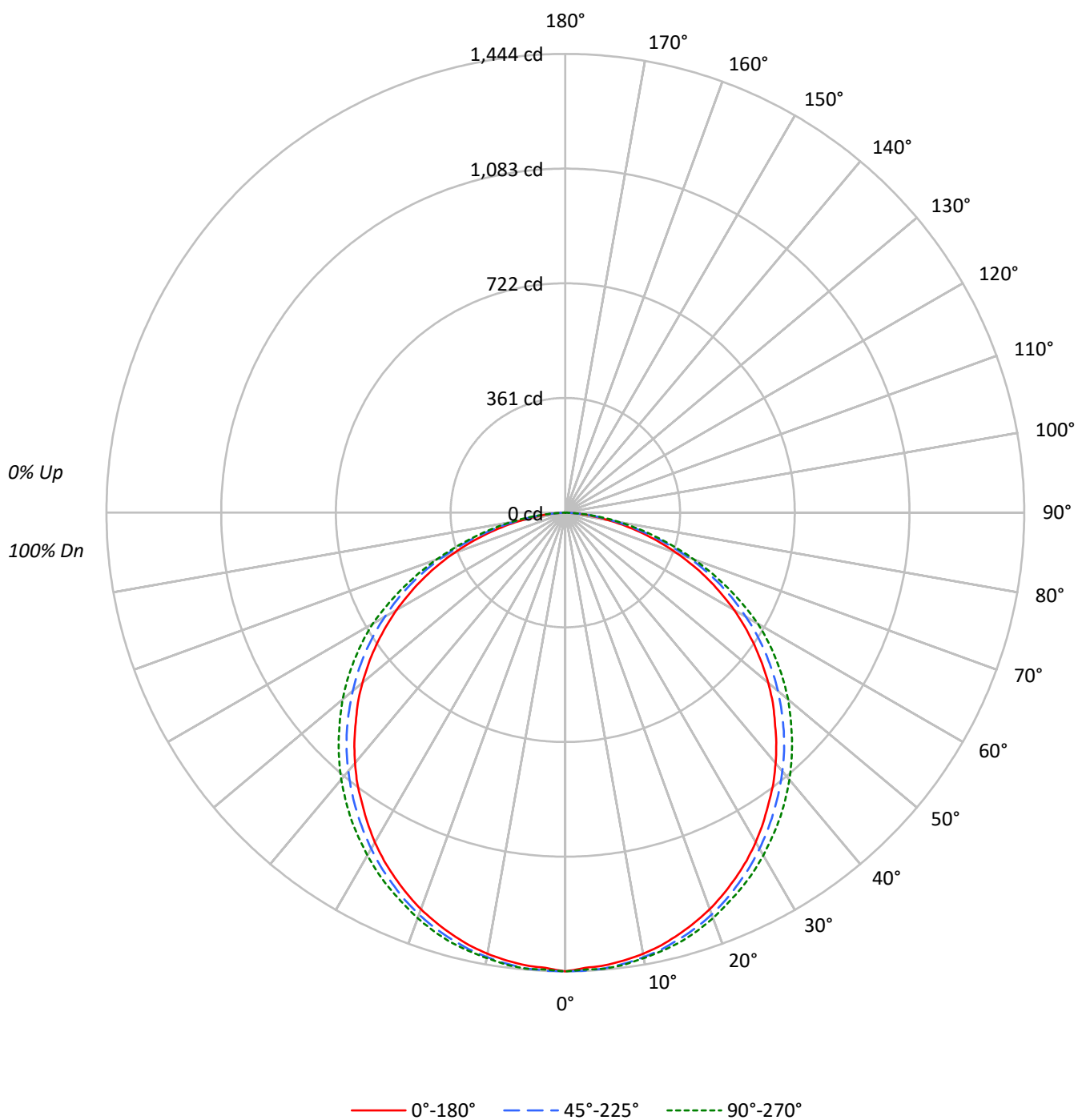
Lumens per Lamp: N/A
Luminaire Lumens: 4175.0 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4866	4866	4866
5°	4839	4870	4874
10°	4825	4861	4872
15°	4798	4847	4881
20°	4764	4828	4872
25°	4716	4791	4857
30°	4662	4753	4846
35°	4588	4712	4838
40°	4528	4674	4825
45°	4442	4633	4805
50°	4368	4577	4797
55°	4264	4513	4766
60°	4133	4423	4717
65°	3949	4302	4522
70°	3681	4062	4244
75°	3289	3665	3872
80°	2695	3089	3386
85°	1805	2258	2517

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4805 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	3.3
10°-20°	392.1	9.4
20°-30°	593.7	14.2
30°-40°	717.0	17.2
40°-50°	749.3	17.9
50°-60°	686.6	16.4
60°-70°	530.0	12.7
70°-80°	298.1	7.1
80°-90°	71.3	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°	1122.6	26.9
0°-40°	1839.6	44.1
0°-60°	3275.5	78.5
0°-90°	4175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1431	1441	1440	1441	1441	136
15°	1375	1386	1389	1395	1399	388
25°	1268	1279	1289	1295	1306	585
35°	1115	1130	1146	1161	1176	699
45°	932	951	972	992	1008	720
55°	726	745	768	792	811	648
65°	495	517	540	561	567	489
75°	253	276	282	293	297	268
85°	47	54	58	64	65	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1444.1	1444.1	1444.1	1444.1	1444.1
2.5°	1434.3	1445.4	1442.9	1446.6	1439.8
5°	1430.6	1441.1	1439.8	1441.1	1441.1
7.5°	1421.4	1432.5	1431.8	1433.7	1434.9
10°	1410.3	1420.8	1420.8	1422.6	1423.9
12.5°	1395.0	1406.0	1407.3	1410.3	1412.8
15°	1375.3	1386.4	1389.4	1395.0	1399.3
17.5°	1353.2	1364.9	1369.8	1375.3	1380.8
20°	1328.6	1339.1	1346.4	1350.7	1358.7
22.5°	1299.7	1311.4	1319.4	1323.7	1332.3
25°	1268.4	1279.4	1288.7	1295.4	1306.5
27.5°	1235.2	1246.3	1257.3	1265.3	1278.2
30°	1198.3	1210.0	1221.7	1234.0	1245.6
32.5°	1158.4	1171.9	1184.8	1198.3	1211.2
35°	1115.4	1129.5	1145.5	1160.8	1176.2
37.5°	1075.4	1088.3	1104.9	1121.5	1136.9
40°	1029.3	1043.5	1062.5	1081.0	1096.9
42.5°	982.6	998.0	1018.9	1036.7	1053.9
45°	932.2	950.7	972.2	991.8	1008.4
47.5°	885.5	901.5	923.0	944.5	961.7
50°	833.3	851.1	873.2	896.0	915.0
52.5°	780.4	798.9	821.6	844.4	864.0
55°	725.8	744.8	768.2	792.1	811.2
57.5°	669.8	690.1	714.1	738.0	757.1
60°	613.3	633.6	656.3	682.7	699.9
62.5°	554.3	577.0	598.5	623.1	633.6
65°	495.3	516.8	539.6	561.1	567.2
67.5°	435.1	457.2	477.5	491.6	499.6
70°	373.6	397.6	412.3	425.9	430.8
72.5°	312.8	336.8	345.4	358.3	363.2
75°	252.6	275.9	281.5	293.1	297.4
77.5°	194.2	215.7	217.5	231.1	234.7
80°	138.9	156.1	159.2	172.1	174.5
82.5°	89.1	101.4	105.7	116.8	120.4
85°	46.7	53.5	58.4	63.9	65.1
87.5°	15.4	19.1	16.0	16.6	15.4
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	17.21	18.86	17.57	19.17	19.49	17.75	19.40	18.11	19.71	20.03
	3H	18.99	20.48	19.36	20.80	21.16	19.61	21.10	19.98	21.43	21.79
	4H	19.61	21.02	20.01	21.37	21.74	20.28	21.68	20.67	22.03	22.40
	6H	20.02	21.33	20.43	21.69	22.08	20.75	22.06	21.16	22.42	22.81
	8H	20.12	21.37	20.55	21.76	22.16	20.90	22.14	21.32	22.53	22.93
	12H	20.17	21.37	20.60	21.75	22.18	20.98	22.18	21.41	22.56	22.99
4H	2H	17.93	19.34	18.33	19.69	20.06	18.36	19.76	18.75	20.11	20.49
	3H	19.93	21.11	20.34	21.51	21.91	20.43	21.61	20.84	22.01	22.41
	4H	20.69	21.75	21.12	22.17	22.60	21.22	22.29	21.66	22.71	23.14
	6H	21.21	22.15	21.67	22.59	23.04	21.83	22.76	22.28	23.20	23.66
	8H	21.35	22.23	21.81	22.67	23.13	22.02	22.89	22.48	23.33	23.80
	12H	21.43	22.22	21.91	22.69	23.16	22.14	22.92	22.62	23.40	23.87
8H	4H	21.02	21.90	21.48	22.34	22.80	21.50	22.37	21.96	22.82	23.28
	6H	21.66	22.39	22.16	22.88	23.35	22.21	22.94	22.71	23.43	23.90
	8H	21.86	22.51	22.37	23.02	23.51	22.47	23.12	22.98	23.63	24.11
	12H	21.99	22.57	22.50	23.06	23.62	22.65	23.23	23.16	23.72	24.28
12H	4H	21.06	21.85	21.54	22.32	22.79	21.52	22.31	22.00	22.78	23.25
	6H	21.72	22.37	22.23	22.88	23.36	22.25	22.90	22.76	23.41	23.89
	8H	21.97	22.55	22.48	23.04	23.60	22.56	23.13	23.06	23.62	24.18