

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: P1584326

Luminaire Tested: 14CZSP-47-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584326
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-L940-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

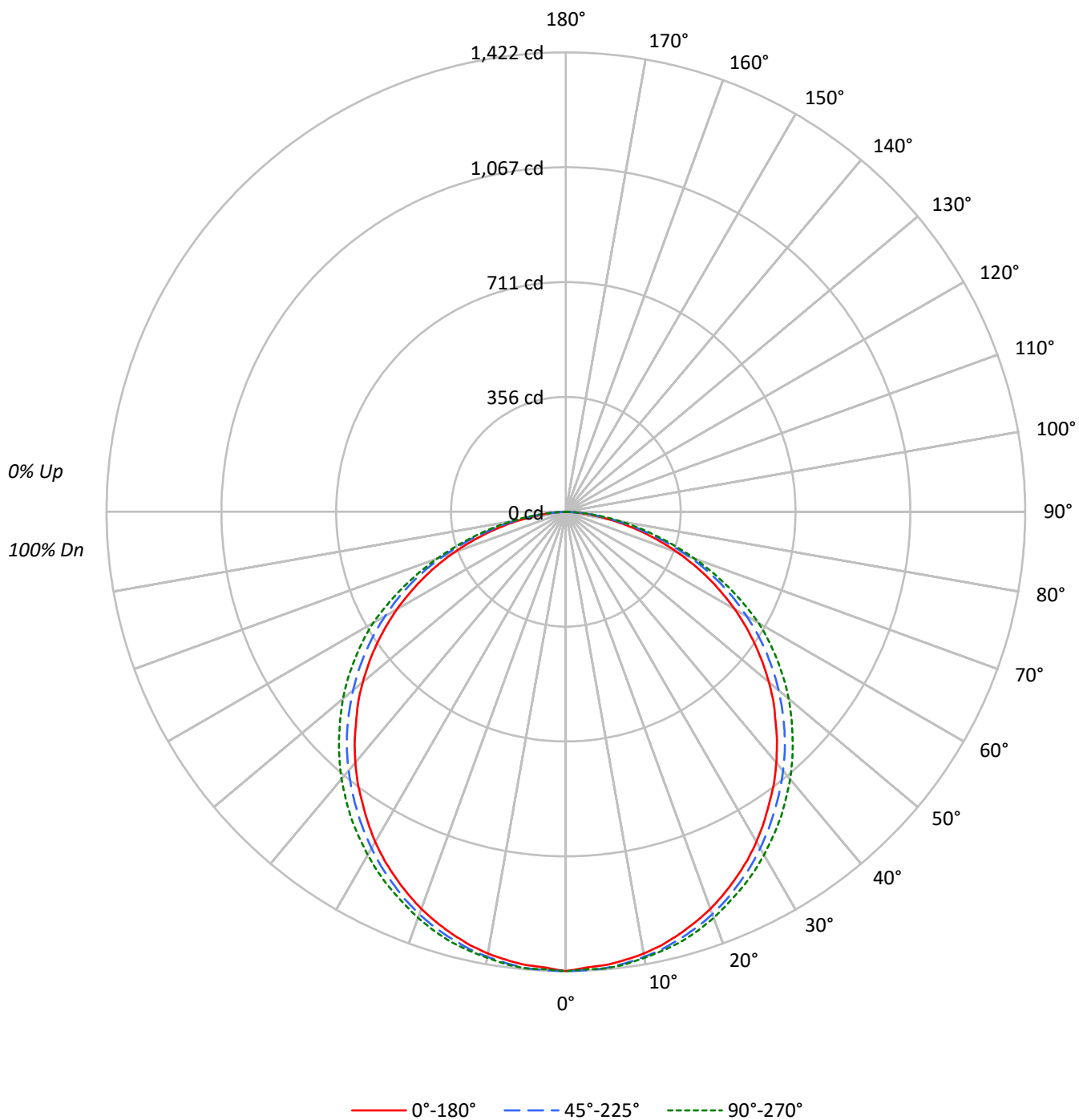
Lumens per Lamp: N/A
Luminaire Lumens: 4111.0 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4792	4792	4792
5°	4765	4796	4800
10°	4752	4787	4797
15°	4724	4773	4806
20°	4691	4754	4797
25°	4643	4718	4783
30°	4591	4681	4772
35°	4518	4640	4764
40°	4458	4602	4751
45°	4374	4562	4732
50°	4301	4508	4723
55°	4198	4444	4692
60°	4070	4356	4645
65°	3888	4236	4453
70°	3625	4000	4179
75°	3238	3608	3813
80°	2655	3041	3336
85°	1778	2223	2478

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4732 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	3.3
10°-20°	386.1	9.4
20°-30°	584.6	14.2
30°-40°	706.0	17.2
40°-50°	737.8	17.9
50°-60°	676.1	16.4
60°-70°	521.9	12.7
70°-80°	293.6	7.1
80°-90°	70.2	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°	1105.4	26.9
0°-40°	1811.4	44.1
0°-60°	3225.3	78.5
0°-90°	4111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4111.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1422	1422	1422	1422	1422	
5°	1409	1419	1418	1419	1419	134
15°	1354	1365	1368	1374	1378	382
25°	1249	1260	1269	1276	1286	576
35°	1098	1112	1128	1143	1158	688
45°	918	936	957	977	993	709
55°	715	733	756	780	799	638
65°	488	509	531	552	558	482
75°	249	272	277	289	293	264
85°	46	53	58	63	64	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1422.0	1422.0	1422.0	1422.0	1422.0
2.5°	1412.3	1423.2	1420.8	1424.4	1417.8
5°	1408.7	1419.0	1417.8	1419.0	1419.0
7.5°	1399.6	1410.5	1409.9	1411.7	1412.9
10°	1388.7	1399.0	1399.0	1400.8	1402.0
12.5°	1373.6	1384.5	1385.7	1388.7	1391.1
15°	1354.2	1365.1	1368.1	1373.6	1377.8
17.5°	1332.4	1343.9	1348.8	1354.2	1359.7
20°	1308.2	1318.5	1325.8	1330.0	1337.9
22.5°	1279.8	1291.3	1299.2	1303.4	1311.9
25°	1248.9	1259.8	1268.9	1275.6	1286.5
27.5°	1216.3	1227.2	1238.0	1245.9	1258.6
30°	1180.0	1191.5	1203.0	1215.1	1226.5
32.5°	1140.6	1153.9	1166.6	1180.0	1192.7
35°	1098.3	1112.2	1127.9	1143.0	1158.2
37.5°	1058.9	1071.6	1088.0	1104.3	1119.4
40°	1013.6	1027.5	1046.2	1064.4	1080.1
42.5°	967.6	982.7	1003.3	1020.8	1037.8
45°	917.9	936.1	957.3	976.6	993.0
47.5°	872.0	887.7	908.9	930.0	947.0
50°	820.5	838.1	859.9	882.2	901.0
52.5°	768.5	786.6	809.0	831.4	850.8
55°	714.6	733.4	756.4	780.0	798.7
57.5°	659.6	679.5	703.1	726.7	745.5
60°	603.9	623.9	646.3	672.3	689.2
62.5°	545.8	568.2	589.4	613.6	623.9
65°	487.7	508.9	531.3	552.5	558.5
67.5°	428.4	450.2	470.2	484.1	492.0
70°	367.9	391.5	406.0	419.3	424.2
72.5°	308.0	331.6	340.1	352.8	357.6
75°	248.7	271.7	277.1	288.6	292.9
77.5°	191.2	212.4	214.2	227.5	231.2
80°	136.8	153.7	156.7	169.4	171.9
82.5°	87.7	99.8	104.1	115.0	118.6
85°	46.0	52.6	57.5	62.9	64.1
87.5°	15.1	18.8	15.7	16.3	15.1
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	17.16	18.81	17.52	19.12	19.43	17.70	19.35	18.06	19.66	19.97
	3H	18.93	20.43	19.31	20.75	21.11	19.55	21.05	19.93	21.37	21.73
	4H	19.56	20.97	19.96	21.31	21.69	20.22	21.63	20.62	21.98	22.35
	6H	19.97	21.27	20.38	21.64	22.03	20.70	22.00	21.11	22.37	22.76
	8H	20.07	21.32	20.49	21.71	22.10	20.84	22.09	21.27	22.48	22.88
	12H	20.12	21.31	20.55	21.70	22.12	20.93	22.12	21.36	22.50	22.93
4H	2H	17.88	19.29	18.28	19.63	20.01	18.30	19.71	18.70	20.06	20.43
	3H	19.87	21.06	20.28	21.45	21.85	20.37	21.56	20.78	21.95	22.35
	4H	20.63	21.70	21.06	22.11	22.55	21.17	22.24	21.60	22.65	23.09
	6H	21.16	22.09	21.61	22.53	22.99	21.77	22.71	22.23	23.15	23.60
	8H	21.30	22.17	21.76	22.62	23.08	21.96	22.84	22.42	23.28	23.74
	12H	21.38	22.16	21.86	22.64	23.11	22.09	22.87	22.56	23.35	23.81
8H	4H	20.97	21.84	21.43	22.28	22.75	21.45	22.32	21.91	22.76	23.23
	6H	21.61	22.34	22.10	22.82	23.30	22.16	22.89	22.65	23.37	23.85
	8H	21.81	22.46	22.32	22.97	23.45	22.42	23.07	22.92	23.57	24.06
	12H	21.94	22.51	22.44	23.00	23.56	22.60	23.17	23.10	23.66	24.22
12H	4H	21.01	21.79	21.49	22.27	22.74	21.47	22.26	21.95	22.73	23.20
	6H	21.66	22.32	22.17	22.82	23.31	22.20	22.85	22.70	23.35	23.84
	8H	21.92	22.49	22.42	22.98	23.54	22.50	23.08	23.01	23.57	24.13