

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: P1584621

Luminaire Tested: 14CZSP-A-47-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584621
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-A-47-L850
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

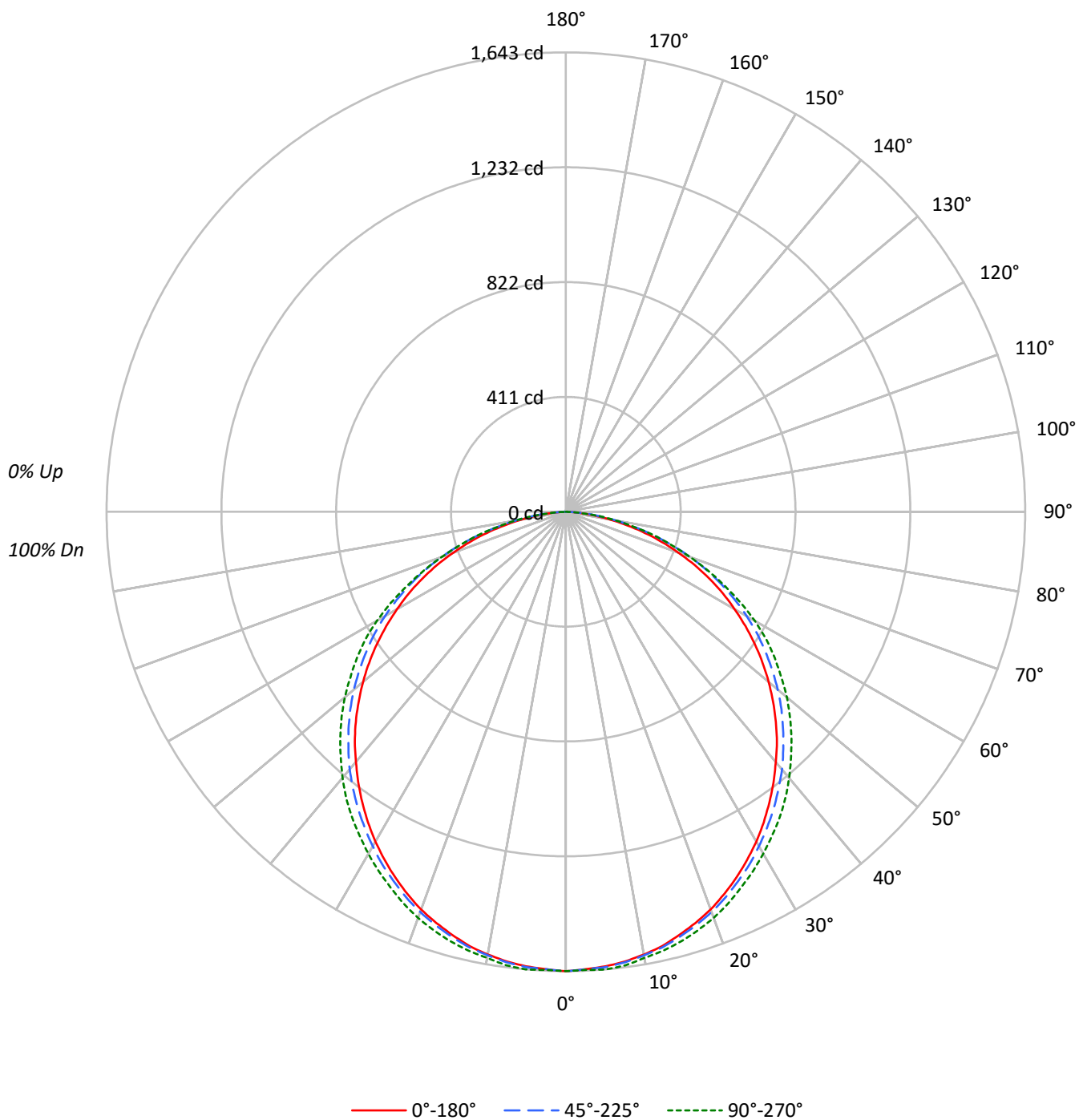
Lumens per Lamp: N/A
Luminaire Lumens: 4741.0 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1584621

CATALOG NUMBER: 14CZSP-A-47-L850

Luminous Intensity Polar Plot



TEST NUMBER: P1584621

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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	53		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	29		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°	5537	5537	5537
5°	5519	5529	5558
10°	5502	5511	5545
15°	5467	5492	5550
20°	5428	5463	5544
25°	5367	5419	5513
30°	5299	5376	5496
35°	5221	5331	5487
40°	5138	5292	5465
45°	5064	5238	5439
50°	4966	5187	5408
55°	4847	5119	5359
60°	4698	5039	5257
65°	4516	4897	4998
70°	4237	4653	4653
75°	3807	4227	4246
80°	3136	3572	3572
85°	2173	2610	2281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5439 cd/sqm

TEST NUMBER: P1584621

CATALOG NUMBER: 14CZSP-A-47-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	3.3
10°-20°	445.7	9.4
20°-30°	674.6	14.2
30°-40°	814.4	17.2
40°-50°	850.9	17.9
50°-60°	779.5	16.4
60°-70°	601.0	12.7
70°-80°	339.0	7.2
80°-90°	80.3	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°	1276.0	26.9
0°-40°	2090.4	44.1
0°-60°	3720.7	78.5
0°-90°	4741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1643	1643	1643	1643	1643	
5°	1632	1643	1635	1638	1643	155
15°	1567	1577	1574	1587	1591	442
25°	1444	1456	1458	1477	1483	665
35°	1269	1286	1296	1324	1334	794
45°	1063	1081	1099	1132	1141	819
55°	825	846	871	904	912	737
65°	566	585	614	635	627	560
75°	292	315	325	333	326	310
85°	56	63	68	72	59	71
90°	0	0	0	0	0	

TEST NUMBER: P1584621

CATALOG NUMBER: 14CZSP-A-47-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1643.1	1643.1	1643.1	1643.1	1643.1
2.5°	1637.5	1648.7	1637.5	1643.1	1640.3
5°	1631.8	1643.1	1634.6	1637.5	1643.1
7.5°	1622.0	1633.2	1624.8	1629.0	1636.1
10°	1607.9	1619.2	1610.8	1617.8	1620.6
12.5°	1591.1	1600.9	1595.3	1603.7	1607.9
15°	1567.2	1577.0	1574.2	1586.9	1591.1
17.5°	1541.9	1553.1	1550.3	1565.8	1570.0
20°	1513.8	1523.6	1523.6	1537.7	1546.1
22.5°	1480.0	1491.3	1492.7	1508.1	1516.6
25°	1443.5	1456.1	1457.5	1477.2	1482.8
27.5°	1404.1	1416.8	1422.4	1443.5	1449.1
30°	1362.0	1374.6	1381.6	1405.5	1412.6
32.5°	1317.0	1332.5	1339.5	1366.2	1373.2
35°	1269.2	1286.1	1295.9	1324.0	1333.9
37.5°	1220.0	1236.9	1249.5	1279.0	1290.3
40°	1168.0	1186.3	1203.1	1232.7	1242.5
42.5°	1117.4	1135.7	1151.1	1182.1	1191.9
45°	1062.6	1080.9	1099.1	1131.5	1141.3
47.5°	1005.0	1024.6	1045.7	1075.2	1087.9
50°	947.3	967.0	989.5	1020.4	1031.7
52.5°	886.9	908.0	930.5	962.8	971.2
55°	825.1	846.1	871.4	903.8	912.2
57.5°	761.8	784.3	811.0	841.9	850.4
60°	697.1	719.6	747.7	777.3	780.1
62.5°	633.9	653.6	681.7	709.8	705.6
65°	566.4	584.7	614.2	635.3	626.9
67.5°	499.0	518.6	545.4	560.8	549.6
70°	430.1	451.2	472.3	483.5	472.3
72.5°	361.2	383.7	399.2	406.2	396.4
75°	292.4	314.8	324.7	333.1	326.1
77.5°	226.3	247.4	251.6	261.4	251.6
80°	161.6	181.3	184.1	194.0	184.1
82.5°	104.0	116.7	122.3	130.7	120.9
85°	56.2	63.2	67.5	71.7	59.0
87.5°	19.7	22.5	19.7	16.9	7.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584621

CATALOG NUMBER: 14CZSP-A-47-L850

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	17.66	19.31	18.02	19.62	19.94	18.20	19.85	18.57	20.17	20.48
	3H	19.45	20.94	19.82	21.27	21.63	20.01	21.50	20.39	21.83	22.19
	4H	20.09	21.49	20.48	21.84	22.21	20.65	22.06	21.05	22.41	22.78
	6H	20.51	21.81	20.92	22.18	22.57	21.09	22.40	21.50	22.76	23.15
	8H	20.62	21.86	21.04	22.25	22.65	21.22	22.46	21.64	22.85	23.25
	12H	20.67	21.87	21.10	22.25	22.68	21.27	22.47	21.70	22.85	23.28
4H	2H	18.39	19.79	18.78	20.14	20.51	18.81	20.22	19.21	20.56	20.94
	3H	20.39	21.57	20.80	21.97	22.37	20.85	22.03	21.26	22.42	22.82
	4H	21.16	22.23	21.59	22.64	23.08	21.63	22.69	22.06	23.11	23.54
	6H	21.70	22.64	22.16	23.08	23.53	22.19	23.13	22.65	23.57	24.02
	8H	21.85	22.72	22.31	23.16	23.63	22.36	23.23	22.82	23.67	24.14
	12H	21.93	22.72	22.41	23.19	23.66	22.45	23.24	22.93	23.71	24.18
8H	4H	21.50	22.38	21.96	22.82	23.28	21.91	22.79	22.37	23.23	23.69
	6H	22.16	22.89	22.65	23.37	23.85	22.60	23.32	23.09	23.81	24.28
	8H	22.37	23.02	22.88	23.52	24.01	22.83	23.48	23.34	23.99	24.47
	12H	22.50	23.08	23.01	23.57	24.13	22.98	23.55	23.49	24.05	24.60
12H	4H	21.54	22.32	22.02	22.80	23.27	21.94	22.73	22.42	23.20	23.67
	6H	22.22	22.87	22.72	23.37	23.86	22.64	23.29	23.15	23.80	24.28
	8H	22.47	23.05	22.98	23.54	24.10	22.92	23.50	23.43	23.99	24.55

END OF REPORT