

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: P1584324

Luminaire Tested: 14CZSP-47-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584324
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-L935-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

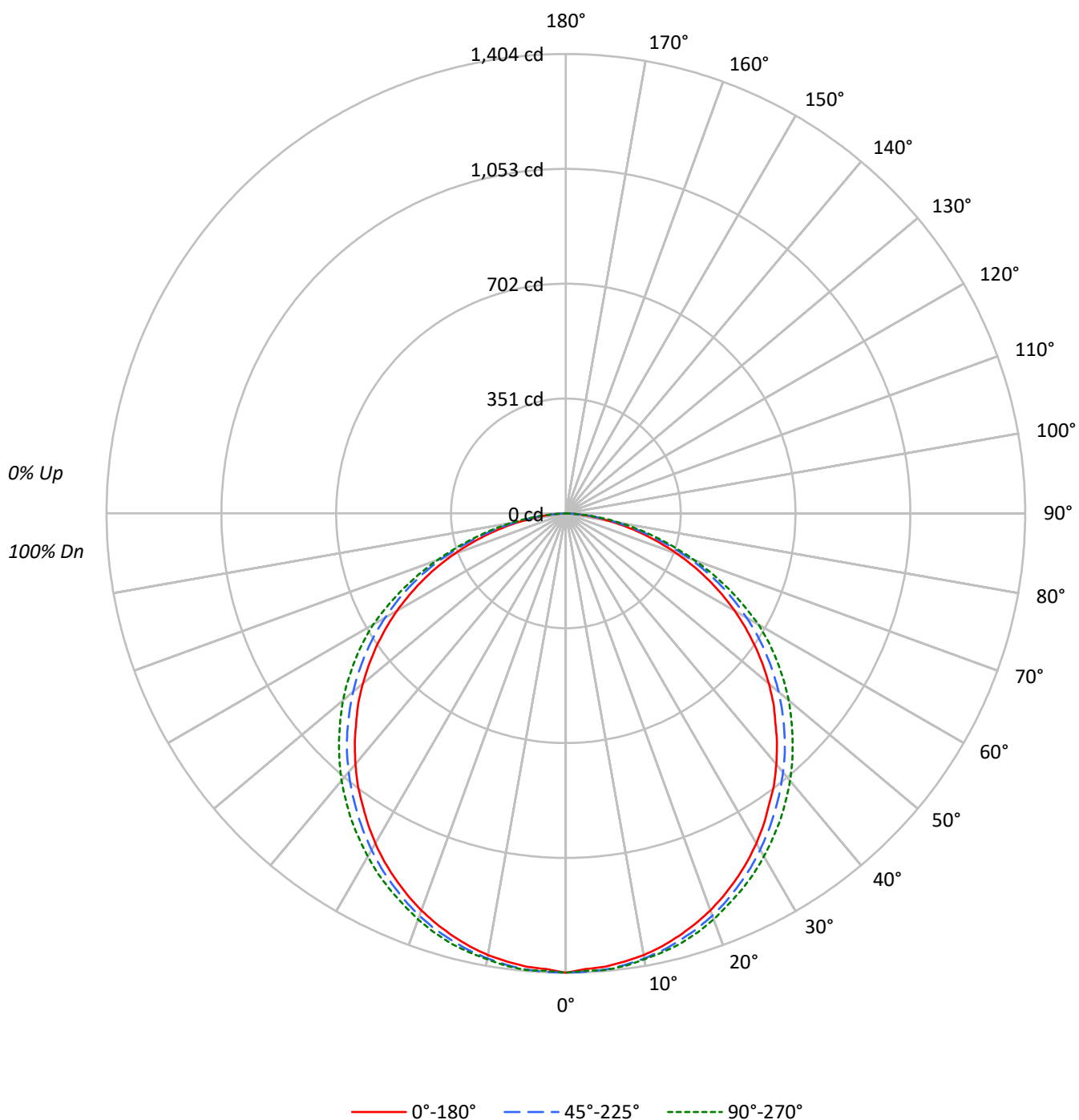
Lumens per Lamp: N/A
Luminaire Lumens: 4058.0 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1584324

CATALOG NUMBER: 14CZSP-47-L935-S

Luminous Intensity Polar Plot



TEST NUMBER: P1584324

CATALOG NUMBER: 14CZSP-47-L935-S

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°	4730	4730	4730
5°	4703	4734	4738
10°	4690	4725	4735
15°	4663	4711	4745
20°	4631	4693	4735
25°	4583	4657	4721
30°	4532	4620	4711
35°	4459	4580	4703
40°	4401	4543	4690
45°	4318	4503	4671
50°	4246	4450	4662
55°	4144	4386	4632
60°	4017	4299	4585
65°	3838	4181	4396
70°	3578	3949	4125
75°	3196	3562	3764
80°	2620	3002	3291
85°	1755	2192	2447

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4671 cd/sqm

TEST NUMBER: P1584324

CATALOG NUMBER: 14CZSP-47-L935-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	3.3
10°-20°	381.1	9.4
20°-30°	577.1	14.2
30°-40°	696.9	17.2
40°-50°	728.3	17.9
50°-60°	667.4	16.4
60°-70°	515.2	12.7
70°-80°	289.8	7.1
80°-90°	69.3	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°	1091.1	26.9
0°-40°	1788.0	44.1
0°-60°	3183.7	78.5
0°-90°	4058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1390	1401	1400	1401	1401	132
15°	1337	1348	1350	1356	1360	377
25°	1233	1244	1252	1259	1270	568
35°	1084	1098	1113	1128	1143	679
45°	906	924	945	964	980	700
55°	705	724	747	770	788	630
65°	481	502	524	545	551	476
75°	246	268	274	285	289	260
85°	45	52	57	62	63	58
90°	0	0	0	0	0	

TEST NUMBER: P1584324

CATALOG NUMBER: 14CZSP-47-L935-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1403.7	1403.7	1403.7	1403.7	1403.7
2.5°	1394.1	1404.9	1402.5	1406.1	1399.5
5°	1390.5	1400.7	1399.5	1400.7	1400.7
7.5°	1381.6	1392.3	1391.7	1393.5	1394.7
10°	1370.8	1381.0	1381.0	1382.8	1384.0
12.5°	1355.9	1366.6	1367.8	1370.8	1373.2
15°	1336.8	1347.5	1350.5	1355.9	1360.1
17.5°	1315.3	1326.6	1331.4	1336.8	1342.1
20°	1291.4	1301.5	1308.7	1312.9	1320.6
22.5°	1263.3	1274.6	1282.4	1286.6	1295.0
25°	1232.8	1243.6	1252.5	1259.1	1269.9
27.5°	1200.6	1211.3	1222.1	1229.9	1242.4
30°	1164.7	1176.1	1187.4	1199.4	1210.7
32.5°	1125.9	1139.1	1151.6	1164.7	1177.3
35°	1084.1	1097.8	1113.4	1128.3	1143.2
37.5°	1045.3	1057.8	1074.0	1090.1	1105.0
40°	1000.5	1014.2	1032.7	1050.7	1066.2
42.5°	955.1	970.0	990.3	1007.7	1024.4
45°	906.1	924.0	944.9	964.0	980.2
47.5°	860.7	876.2	897.2	918.1	934.8
50°	809.9	827.3	848.8	870.9	889.4
52.5°	758.6	776.5	798.6	820.7	839.8
55°	705.4	723.9	746.6	769.9	788.4
57.5°	651.1	670.8	694.1	717.4	735.9
60°	596.1	615.8	637.9	663.6	680.3
62.5°	538.8	560.9	581.8	605.7	615.8
65°	481.4	502.3	524.4	545.3	551.3
67.5°	422.9	444.4	464.1	477.8	485.6
70°	363.2	386.5	400.8	413.9	418.7
72.5°	304.0	327.3	335.7	348.2	353.0
75°	245.5	268.2	273.6	284.9	289.1
77.5°	188.7	209.7	211.4	224.6	228.2
80°	135.0	151.7	154.7	167.2	169.6
82.5°	86.6	98.6	102.7	113.5	117.1
85°	45.4	52.0	56.7	62.1	63.3
87.5°	14.9	18.5	15.5	16.1	14.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584324

CATALOG NUMBER: 14CZSP-47-L935-S

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	17.11	18.76	17.48	19.08	19.39	17.65	19.30	18.02	19.62	19.93
	3H	18.89	20.38	19.26	20.71	21.07	19.51	21.00	19.88	21.33	21.69
	4H	19.51	20.92	19.91	21.27	21.64	20.18	21.58	20.57	21.93	22.31
	6H	19.92	21.23	20.33	21.59	21.98	20.65	21.96	21.06	22.32	22.71
	8H	20.03	21.27	20.45	21.66	22.06	20.80	22.05	21.22	22.43	22.83
	12H	20.08	21.27	20.50	21.65	22.08	20.88	22.08	21.31	22.46	22.89
4H	2H	17.84	19.24	18.23	19.59	19.97	18.26	19.66	18.66	20.01	20.39
	3H	19.83	21.01	20.24	21.41	21.81	20.33	21.51	20.74	21.91	22.31
	4H	20.59	21.66	21.02	22.07	22.50	21.13	22.19	21.56	22.61	23.04
	6H	21.12	22.05	21.57	22.49	22.94	21.73	22.66	22.18	23.10	23.56
	8H	21.25	22.13	21.71	22.57	23.03	21.92	22.79	22.38	23.23	23.70
	12H	21.33	22.12	21.81	22.59	23.06	22.04	22.83	22.52	23.30	23.77
8H	4H	20.92	21.80	21.38	22.24	22.70	21.40	22.28	21.86	22.72	23.18
	6H	21.56	22.29	22.06	22.78	23.25	22.11	22.84	22.61	23.33	23.80
	8H	21.77	22.42	22.27	22.92	23.41	22.37	23.02	22.88	23.53	24.01
	12H	21.89	22.47	22.40	22.96	23.52	22.55	23.13	23.06	23.62	24.18
12H	4H	20.96	21.75	21.44	22.22	22.69	21.43	22.21	21.90	22.69	23.15
	6H	21.62	22.27	22.13	22.78	23.26	22.15	22.80	22.66	23.31	23.79
	8H	21.87	22.45	22.38	22.94	23.50	22.46	23.03	22.96	23.52	24.08