

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: IRiS

Report Number: P1345532

Luminaire Tested: P3A13R359735DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R359735DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

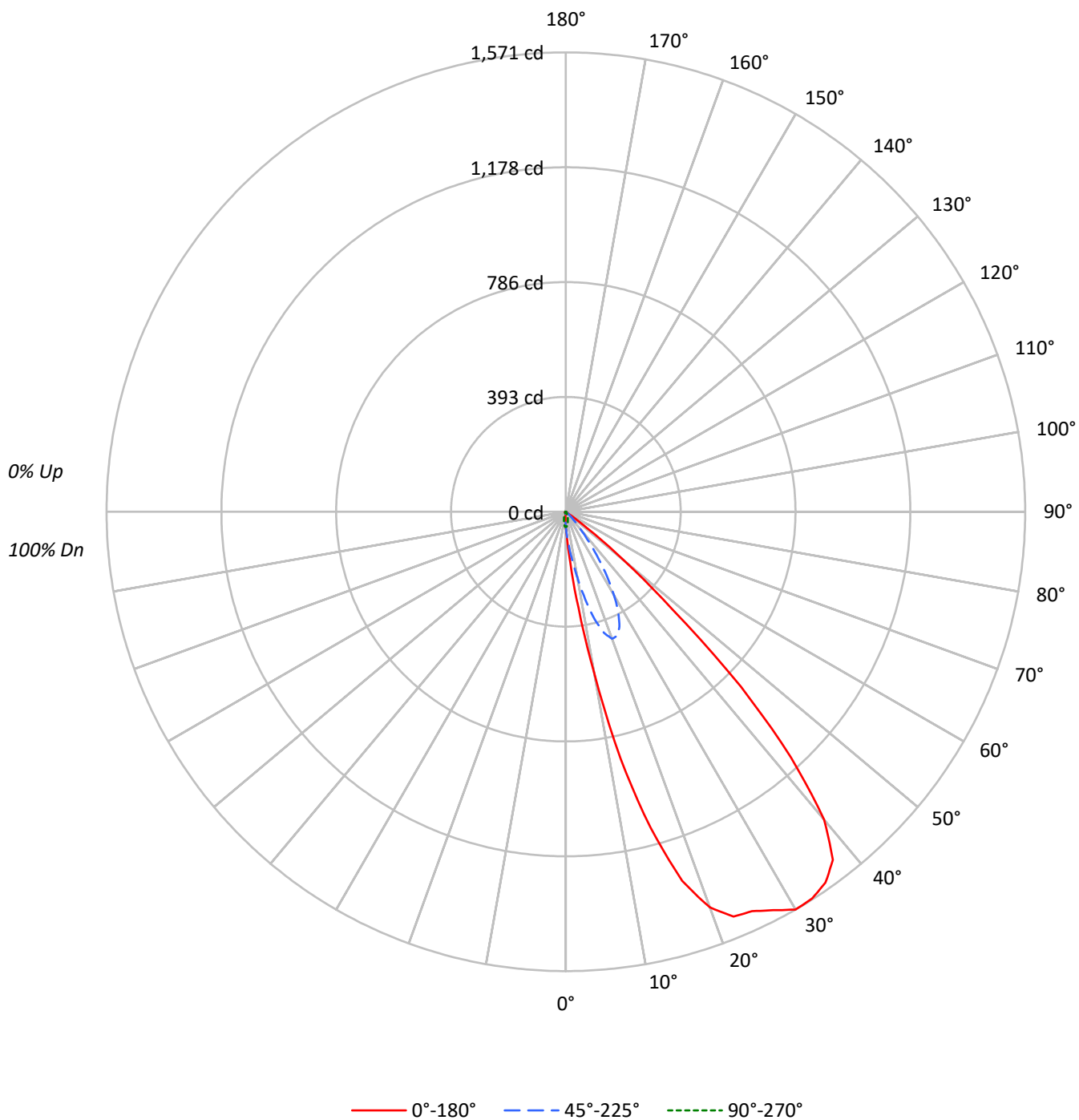
Lumens per Lamp: N/A
Luminaire Lumens: 493.9 lumens
Efficiency: N/A
Efficacy: 33.8 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83		
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	74		
4	92	83	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	67		
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41		
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11381	11381	11381	11381	11381
5°	38741	25182	10632	4490	3324
10°	124714	51057	8394	1670	1091
15°	254099	86584	5948	613	409
20°	336006	107833	3827	210	210
25°	364569	104813	2153	97	218
30°	397707	83532	886	101	228
35°	414414	51986	241	107	241
40°	393251	22728	115	258	372
45°	262508	9086	124	403	682
50°	88048	1501	307	614	921
55°	4932	153	344	841	1185
60°	395	175	570	965	1360
65°	467	208	675	1141	1608
70°	256	256	833	1410	1731
75°	339	339	1101	1525	1864
80°	0	505	1642	1642	1642
85°	0	1006	3271	1006	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 262508 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	1.8
10°-20°	70.9	14.4
20°-30°	149.7	30.3
30°-40°	169.9	34.4
40°-50°	83.6	16.9
50°-60°	7.2	1.5
60°-70°	1.5	0.3
70°-80°	1.4	0.3
80°-90°	0.7	0.1
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°	229.7	46.5
0°-40°	399.6	80.9
0°-60°	490.5	99.3
0°-90°	493.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	493.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	52	52	52	52	52	
5°	176	114	48	20	15	29
15°	1119	381	26	3	2	318
25°	1507	433	9	0	1	701
35°	1548	194	1	0	1	954
45°	846	29	0	1	2	625
55°	13	0	1	2	3	50
65°	1	0	1	2	3	1
75°	0	0	1	2	2	0
85°	0	0	1	0	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
2.5°	90.0	92.2	91.3	90.9	90.5	88.7	84.7	84.3	80.3	77.6	64.3
5°	176.0	172.5	173.4	168.5	162.3	153.4	147.7	135.3	125.1	114.4	74.9
7.5°	331.7	326.8	317.5	303.3	288.7	269.6	240.8	217.7	191.1	165.8	83.4
10°	560.1	557.4	545.4	509.1	477.1	426.2	378.3	327.7	278.0	229.3	89.1
12.5°	865.2	847.0	825.3	776.9	713.9	650.1	555.6	468.3	388.9	307.3	89.6
15°	1119.3	1107.7	1077.1	1014.2	938.3	846.1	733.9	616.4	496.7	381.4	85.1
17.5°	1323.7	1305.9	1266.5	1204.8	1117.5	997.8	866.5	723.3	577.4	434.1	77.6
20°	1439.9	1430.6	1400.4	1338.8	1243.4	1112.6	963.2	796.4	627.9	462.1	67.8
22.5°	1498.4	1491.8	1469.6	1420.4	1331.2	1199.5	1028.4	834.6	642.6	459.0	57.6
25°	1506.8	1505.1	1486.0	1448.7	1374.2	1243.9	1056.7	841.7	630.6	433.2	47.9
27.5°	1536.1	1529.9	1507.3	1470.0	1395.1	1251.4	1047.0	817.3	592.0	388.0	39.9
30°	1570.7	1566.2	1543.6	1505.1	1416.4	1244.3	1012.4	763.2	530.4	329.9	29.7
32.5°	1568.0	1566.2	1547.2	1506.4	1401.3	1202.6	950.7	682.0	446.5	260.3	18.6
35°	1548.1	1541.9	1517.9	1454.9	1315.3	1095.3	833.7	572.0	353.4	194.2	12.0
37.5°	1500.2	1486.9	1446.5	1339.6	1161.4	929.9	678.9	441.7	250.1	129.9	7.5
40°	1373.8	1356.9	1275.8	1146.7	960.1	732.6	505.1	303.8	165.0	79.4	3.1
42.5°	1139.7	1105.5	1024.4	891.8	716.6	517.9	331.7	196.9	97.1	47.9	0.9
45°	846.5	820.4	735.2	615.1	469.6	332.1	200.9	106.4	53.7	29.3	0.4
47.5°	493.1	477.1	433.2	354.3	259.4	174.3	102.9	57.2	31.5	14.2	0.4
50°	258.1	238.1	204.9	155.2	114.4	80.3	50.1	30.6	15.5	4.4	0.4
52.5°	90.5	89.1	81.2	61.2	49.7	35.9	24.4	13.3	4.4	0.9	0.4
55°	12.9	12.9	12.0	13.3	14.2	12.9	8.4	3.5	0.9	0.4	0.4
57.5°	0.9	0.9	0.9	1.3	1.8	1.8	1.3	0.4	0.4	0.4	0.9
60°	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
62.5°	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
65°	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
77.5°	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	51.9	51.9	51.9	51.9	51.9
2.5°	51.4	41.2	32.8	28.8	27.5
5°	48.3	31.0	20.4	16.0	15.1
7.5°	43.0	22.2	12.4	8.9	8.4
10°	37.7	16.0	7.5	5.3	4.9
12.5°	31.5	11.1	4.9	3.1	2.7
15°	26.2	7.5	2.7	2.2	1.8
17.5°	20.8	4.9	1.8	1.3	1.8
20°	16.4	3.1	0.9	0.9	0.9
22.5°	12.4	1.8	0.9	0.9	0.9
25°	8.9	0.9	0.4	0.4	0.9
27.5°	6.2	0.4	0.4	0.4	0.9
30°	3.5	0.4	0.4	0.4	0.9
32.5°	1.8	0.4	0.4	0.9	0.9
35°	0.9	0.4	0.4	0.9	0.9
37.5°	0.4	0.4	0.4	0.9	1.3
40°	0.4	0.4	0.9	1.3	1.3
42.5°	0.4	0.4	0.9	1.3	1.8
45°	0.4	0.9	1.3	1.8	2.2
47.5°	0.9	0.9	1.8	2.2	2.7
50°	0.9	1.3	1.8	2.7	2.7
52.5°	0.9	1.3	2.2	2.7	3.1
55°	0.9	1.8	2.2	3.1	3.1
57.5°	1.3	1.8	2.2	3.1	3.1
60°	1.3	1.8	2.2	3.1	3.1
62.5°	1.3	1.8	2.2	3.1	3.1
65°	1.3	1.8	2.2	3.1	3.1
67.5°	1.3	1.8	2.2	2.7	3.1
70°	1.3	1.8	2.2	2.7	2.7
72.5°	1.8	1.8	2.2	2.7	2.7
75°	1.3	1.8	1.8	2.2	2.2
77.5°	1.3	1.3	1.3	1.8	1.8
80°	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	0.9	0.9	1.3	1.3
85°	1.3	0.9	0.4	0.9	0.9
87.5°	0.9	0.9	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)