

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: P1345100

Luminaire Tested: P3A13R309840DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R309840DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

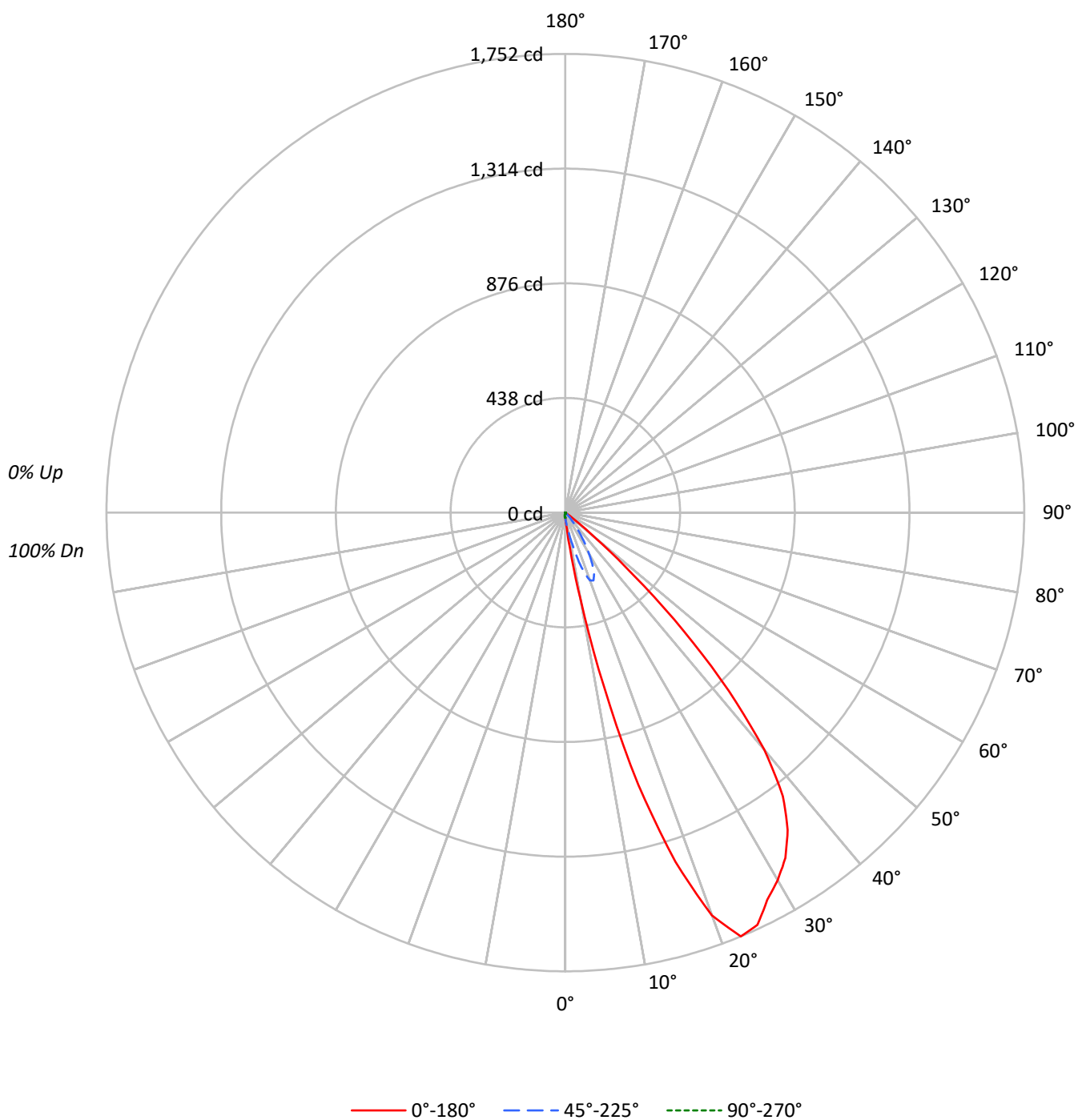
Lumens per Lamp: N/A
Luminaire Lumens: 413.0 lumens
Efficiency: N/A
Efficacy: 28.5 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	87	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4298	4298	4298	4298	4298
5°	12965	8629	4072	1827	1497
10°	75038	18325	3184	846	579
15°	244088	41544	2225	182	91
20°	381930	64289	1400	0	0
25°	420194	62810	726	0	0
30°	410418	45298	279	0	0
35°	396104	25752	107	0	0
40°	337804	10906	0	0	0
45°	198253	4093	124	0	124
50°	48135	785	136	136	375
55°	4167	0	306	421	573
60°	175	0	351	482	833
65°	208	208	571	571	986
70°	256	256	705	705	962
75°	0	339	932	932	932
80°	0	505	1389	1010	1010
85°	0	1006	2768	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 198253 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.9
10°-20°	56.8	13.7
20°-30°	144.2	34.9
30°-40°	143.8	34.8
40°-50°	58.3	14.1
50°-60°	4.0	1.0
60°-70°	0.9	0.2
70°-80°	0.9	0.2
80°-90°	0.5	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°	204.6	49.5
0°-40°	348.4	84.3
0°-60°	410.7	99.4
0°-90°	413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	413.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	59	39	18	8	7	14
15°	1075	183	10	1	0	313
25°	1737	260	3	0	0	784
35°	1480	96	0	0	0	907
45°	639	13	0	0	0	488
55°	11	0	1	1	2	29
65°	0	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	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°	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
2.5°	32.5	32.8	32.8	32.1	31.7	31.7	30.6	30.2	29.1	27.9	24.2
5°	58.9	57.7	56.2	56.2	52.8	50.9	48.3	45.3	43.0	39.2	27.9
7.5°	133.6	124.5	121.9	118.5	105.7	95.5	83.8	73.6	64.2	56.2	30.9
10°	337.0	319.3	304.6	274.7	237.4	201.5	168.3	129.8	103.4	82.3	33.2
12.5°	678.9	655.1	626.8	572.5	502.7	413.2	334.0	249.5	175.1	121.1	34.0
15°	1075.2	1034.8	990.6	921.6	807.2	678.9	535.9	401.2	281.2	183.0	33.2
17.5°	1398.2	1382.4	1317.1	1222.7	1082.7	917.4	741.2	557.0	379.3	239.6	30.9
20°	1636.7	1625.8	1546.9	1446.5	1288.8	1099.3	875.5	654.4	447.6	275.5	27.5
22.5°	1751.8	1749.9	1693.0	1590.3	1423.1	1208.4	962.0	710.6	468.7	280.4	23.0
25°	1736.7	1743.5	1711.1	1634.8	1474.5	1253.3	987.6	710.6	453.2	259.6	19.2
27.5°	1668.1	1672.6	1652.2	1593.7	1444.3	1220.8	951.8	665.0	408.3	223.0	15.9
30°	1620.9	1622.8	1597.5	1534.8	1376.3	1146.9	867.2	580.4	340.4	178.9	11.7
32.5°	1563.5	1563.1	1533.7	1462.0	1287.3	1043.1	760.1	479.7	261.5	135.9	6.8
35°	1479.7	1470.3	1430.3	1347.7	1154.4	903.5	623.1	365.3	188.3	96.2	4.2
37.5°	1364.6	1340.1	1283.5	1172.9	968.0	708.4	461.9	256.6	128.7	63.8	2.6
40°	1180.1	1154.1	1077.1	942.7	732.1	509.9	311.3	167.2	81.1	38.1	1.5
42.5°	925.4	907.6	803.8	669.9	483.4	325.3	187.2	98.9	45.7	21.9	0.4
45°	639.3	616.3	534.8	421.2	290.2	180.4	104.9	51.7	26.0	13.2	0.0
47.5°	352.9	324.6	277.4	218.1	146.0	94.7	52.8	27.9	14.7	6.4	0.0
50°	141.1	140.0	111.3	79.3	55.9	43.0	26.4	15.1	7.5	2.3	0.4
52.5°	49.4	49.4	42.6	34.7	27.2	19.6	13.2	7.2	2.6	0.8	0.4
55°	10.9	12.1	11.3	10.6	10.2	8.7	5.7	2.6	0.8	0.0	0.4
57.5°	1.1	1.1	1.1	1.5	1.9	1.9	1.5	0.8	0.0	0.0	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.8
62.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.4	0.8
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1
75°	0.0	0.0	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.4	1.1
77.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
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°	19.6	19.6	19.6	19.6	19.6
2.5°	19.6	15.5	12.8	11.3	10.9
5°	18.5	11.7	8.3	7.2	6.8
7.5°	16.6	8.7	5.7	4.5	4.2
10°	14.3	6.4	3.8	2.6	2.6
12.5°	12.1	4.9	2.3	1.1	0.8
15°	9.8	3.0	0.8	0.4	0.4
17.5°	7.5	1.9	0.0	0.0	0.0
20°	6.0	0.8	0.0	0.0	0.0
22.5°	4.5	0.4	0.0	0.0	0.0
25°	3.0	0.0	0.0	0.0	0.0
27.5°	1.9	0.0	0.0	0.0	0.0
30°	1.1	0.0	0.0	0.0	0.0
32.5°	0.4	0.0	0.0	0.0	0.0
35°	0.4	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.4	0.0	0.0	0.4	0.4
47.5°	0.4	0.4	0.4	0.8	0.8
50°	0.4	0.4	0.4	0.8	1.1
52.5°	0.8	0.4	0.8	1.1	1.1
55°	0.8	0.8	1.1	1.5	1.5
57.5°	0.8	0.8	1.1	1.5	1.5
60°	0.8	0.8	1.1	1.5	1.9
62.5°	1.1	1.1	1.1	1.5	1.5
65°	1.1	1.1	1.1	1.5	1.9
67.5°	1.1	1.1	1.1	1.5	1.9
70°	1.1	1.1	1.1	1.5	1.5
72.5°	1.5	1.1	1.1	1.5	1.5
75°	1.1	1.1	1.1	1.1	1.1
77.5°	1.1	1.1	0.8	1.1	1.1
80°	1.1	0.8	0.8	0.8	0.8
82.5°	1.1	0.8	0.8	0.8	0.8
85°	1.1	0.8	0.4	0.4	0.4
87.5°	1.1	0.8	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)