

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: P1345052

Luminaire Tested: P3A13R309827DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345052
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: P3A13R309827DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

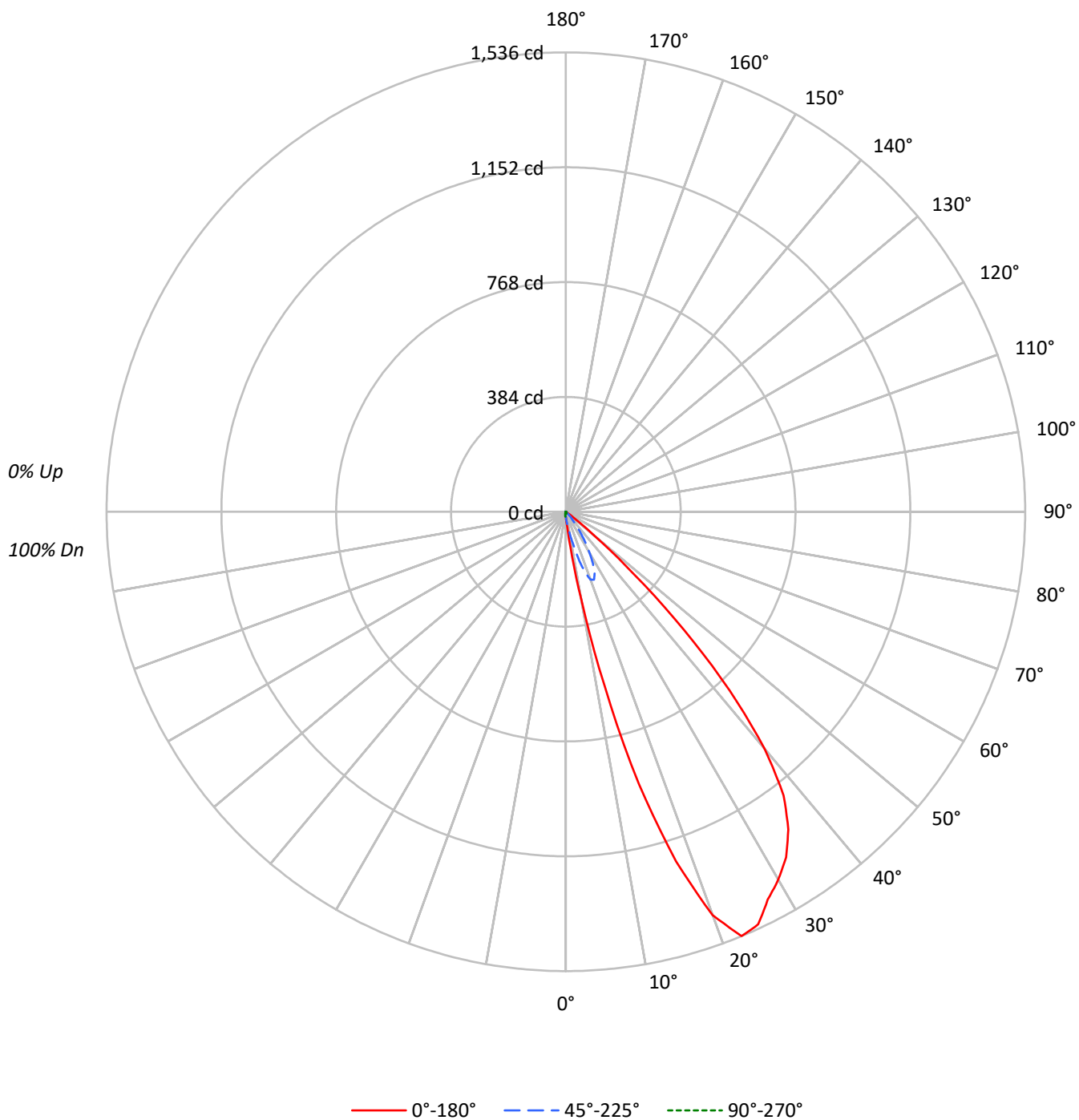
Lumens per Lamp: N/A
Luminaire Lumens: 362.0 lumens
Efficiency: N/A
Efficacy: 25.0 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	88	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°	3772	3772	3772	3772	3772
5°	11358	7572	3566	1607	1321
10°	65775	16054	2806	735	512
15°	213940	36413	1952	159	68
20°	334769	56355	1237	0	0
25°	368320	55068	629	0	0
30°	359726	39702	253	0	0
35°	347197	22593	80	0	0
40°	296098	9561	0	0	0
45°	173754	3597	93	0	93
50°	42199	682	102	102	341
55°	3670	0	268	382	497
60°	132	0	307	439	746
65°	156	156	519	519	882
70°	192	192	641	641	833
75°	0	254	847	847	847
80°	0	379	1263	884	884
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 173754 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.9
10°-20°	49.8	13.7
20°-30°	126.4	34.9
30°-40°	126.0	34.8
40°-50°	51.0	14.1
50°-60°	3.5	1.0
60°-70°	0.8	0.2
70°-80°	0.8	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°	179.3	49.5
0°-40°	305.4	84.4
0°-60°	359.9	99.4
0°-90°	362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	362.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	52	34	16	7	6	12
15°	942	160	9	1	0	274
25°	1522	228	3	0	0	687
35°	1297	84	0	0	0	795
45°	560	12	0	0	0	427
55°	10	0	1	1	1	25
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°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
2.5°	28.4	28.8	28.8	28.1	27.8	27.8	26.8	26.5	25.5	24.5	21.2
5°	51.6	50.6	49.3	49.3	46.3	44.7	42.3	39.7	37.7	34.4	24.5
7.5°	117.1	109.2	106.8	103.9	92.6	83.7	73.4	64.5	56.2	49.3	27.1
10°	295.4	279.8	266.9	240.8	208.1	176.6	147.5	113.8	90.6	72.1	29.1
12.5°	595.1	574.2	549.4	501.8	440.6	362.2	292.7	218.6	153.5	106.2	29.8
15°	942.4	907.0	868.3	807.8	707.5	595.1	469.7	351.6	246.4	160.4	29.1
17.5°	1225.6	1211.7	1154.4	1071.7	949.0	804.1	649.7	488.2	332.4	210.0	27.1
20°	1434.6	1425.0	1355.9	1267.9	1129.6	963.6	767.4	573.6	392.3	241.5	24.1
22.5°	1535.5	1533.9	1483.9	1393.9	1247.4	1059.2	843.2	622.9	410.8	245.8	20.2
25°	1522.3	1528.2	1499.8	1433.0	1292.4	1098.5	865.7	622.9	397.3	227.6	16.9
27.5°	1462.1	1466.0	1448.2	1396.9	1265.9	1070.1	834.2	582.8	357.9	195.5	13.9
30°	1420.7	1422.4	1400.2	1345.3	1206.4	1005.3	760.1	508.7	298.4	156.8	10.3
32.5°	1370.4	1370.1	1344.3	1281.5	1128.3	914.3	666.2	420.4	229.2	119.1	6.0
35°	1297.0	1288.7	1253.7	1181.2	1011.9	791.9	546.1	320.2	165.1	84.4	3.6
37.5°	1196.1	1174.6	1125.0	1028.1	848.5	620.9	404.9	224.9	112.8	55.9	2.3
40°	1034.4	1011.5	944.1	826.3	641.7	446.9	272.9	146.5	71.1	33.4	1.3
42.5°	811.1	795.5	704.6	587.1	423.7	285.1	164.1	86.7	40.0	19.2	0.3
45°	560.3	540.2	468.7	369.2	254.4	158.1	92.0	45.3	22.8	11.6	0.0
47.5°	309.3	284.5	243.1	191.2	128.0	83.0	46.3	24.5	12.9	5.6	0.0
50°	123.7	122.7	97.6	69.5	49.0	37.7	23.2	13.2	6.6	2.0	0.3
52.5°	43.3	43.3	37.4	30.4	23.8	17.2	11.6	6.3	2.3	0.7	0.3
55°	9.6	10.6	9.9	9.3	8.9	7.6	5.0	2.3	0.7	0.0	0.3
57.5°	1.0	1.0	1.0	1.3	1.7	1.7	1.3	0.7	0.0	0.0	0.3
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.7
62.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3	0.3	0.7
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0
75°	0.0	0.0	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.3	1.0
77.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.7
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°	17.2	17.2	17.2	17.2	17.2
2.5°	17.2	13.6	11.2	9.9	9.6
5°	16.2	10.3	7.3	6.3	6.0
7.5°	14.6	7.6	5.0	4.0	3.6
10°	12.6	5.6	3.3	2.3	2.3
12.5°	10.6	4.3	2.0	1.0	0.7
15°	8.6	2.6	0.7	0.3	0.3
17.5°	6.6	1.7	0.0	0.0	0.0
20°	5.3	0.7	0.0	0.0	0.0
22.5°	4.0	0.3	0.0	0.0	0.0
25°	2.6	0.0	0.0	0.0	0.0
27.5°	1.7	0.0	0.0	0.0	0.0
30°	1.0	0.0	0.0	0.0	0.0
32.5°	0.3	0.0	0.0	0.0	0.0
35°	0.3	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°	0.3	0.0	0.0	0.3	0.3
47.5°	0.3	0.3	0.3	0.7	0.7
50°	0.3	0.3	0.3	0.7	1.0
52.5°	0.7	0.3	0.7	1.0	1.0
55°	0.7	0.7	1.0	1.3	1.3
57.5°	0.7	0.7	1.0	1.3	1.3
60°	0.7	0.7	1.0	1.3	1.7
62.5°	1.0	1.0	1.0	1.3	1.3
65°	1.0	1.0	1.0	1.3	1.7
67.5°	1.0	1.0	1.0	1.3	1.7
70°	1.0	1.0	1.0	1.3	1.3
72.5°	1.3	1.0	1.0	1.3	1.3
75°	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	0.7	1.0	1.0
80°	1.0	0.7	0.7	0.7	0.7
82.5°	1.0	0.7	0.7	0.7	0.7
85°	1.0	0.7	0.3	0.3	0.3
87.5°	1.0	0.7	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)