

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: P1343069

Luminaire Tested: P3A09R459835DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R459835DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

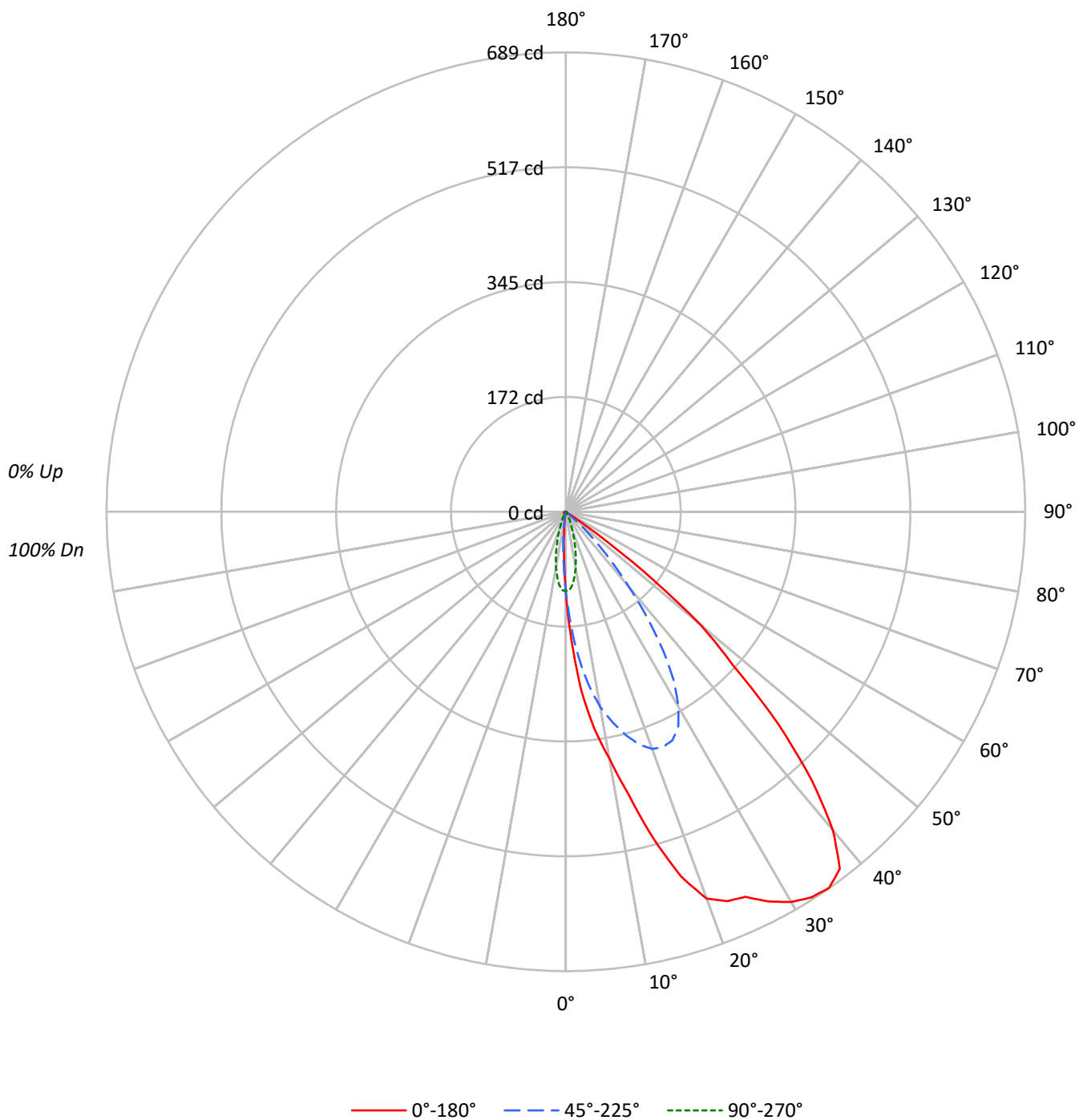
Lumens per Lamp: N/A
Luminaire Lumens: 312.0 lumens
Efficiency: N/A
Efficacy: 28.4 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	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	47	43	51	46	42	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°	26029	26029	26029	26029	26029
5°	59322	48140	24345	9773	6670
10°	83610	66109	18815	2160	980
15°	115211	78661	12032	704	590
20°	144073	88348	6277	490	490
25°	154170	91481	2903	387	436
30°	171115	85431	1317	405	456
35°	184333	68101	428	428	562
40°	178363	42193	229	515	658
45°	140077	19909	248	651	806
50°	89993	2320	341	785	1058
55°	13648	191	382	994	1300
60°	219	219	439	1140	1360
65°	259	259	519	1193	1608
70°	321	321	641	1346	1859
75°	254	424	847	1525	1949
80°	379	631	1010	1642	2273
85°	0	755	1258	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 140077 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.0	4.2
10°-20°	47.0	15.1
20°-30°	82.5	26.5
30°-40°	93.7	30.0
40°-50°	60.7	19.5
50°-60°	11.9	3.8
60°-70°	1.4	0.5
70°-80°	1.2	0.4
80°-90°	0.5	0.2
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°	142.5	45.7
0°-40°	236.2	75.7
0°-60°	308.8	99.0
0°-90°	312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	312.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	119	119	119	119	119	
5°	270	219	111	44	30	29
15°	508	346	53	3	3	146
25°	637	378	12	2	2	299
35°	689	254	2	2	2	423
45°	452	64	1	2	3	340
55°	36	0	1	3	3	68
65°	0	0	1	2	3	0
75°	0	0	1	2	2	0
85°	0	0	0	1	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°	50°
0°	118.7	118.7	118.7	118.7	118.7	118.7	118.7	118.7	118.7	118.7	118.7
2.5°	192.8	192.3	193.1	187.9	187.6	183.7	182.6	178.2	172.2	169.3	162.6
5°	269.5	266.9	266.9	260.7	258.6	254.1	246.6	237.2	229.4	218.7	207.2
7.5°	328.8	328.2	328.2	322.8	317.5	311.3	301.1	290.4	277.9	261.4	244.8
10°	375.5	376.3	373.9	369.0	361.4	354.6	342.6	329.6	314.2	296.9	274.8
12.5°	434.4	428.7	426.9	415.7	406.0	393.0	378.6	363.7	344.7	323.0	298.0
15°	507.5	500.2	492.9	478.0	461.8	441.8	419.3	397.4	372.9	346.5	315.2
17.5°	572.7	572.7	563.1	539.6	518.7	489.0	458.7	429.5	400.5	365.8	326.7
20°	617.4	615.0	607.7	590.5	566.7	533.1	493.7	452.7	417.7	378.6	333.2
22.5°	632.0	631.4	631.7	621.5	602.5	567.5	519.2	471.0	427.1	381.7	330.1
25°	637.2	638.2	640.8	636.9	622.6	587.6	534.9	479.6	430.0	378.1	318.1
27.5°	658.8	656.8	659.6	657.0	640.8	599.1	538.0	477.5	423.7	364.8	296.7
30°	675.8	675.3	680.2	677.9	656.8	606.4	535.2	469.7	408.4	337.4	263.0
32.5°	685.5	685.7	687.0	677.4	646.1	590.5	521.1	453.8	379.4	301.6	219.2
35°	688.6	687.0	679.7	656.0	613.2	553.7	486.4	415.9	340.0	254.4	173.3
37.5°	675.0	666.9	648.1	612.7	563.1	507.5	442.0	368.2	286.0	200.9	129.2
40°	623.1	612.4	588.7	552.4	506.2	452.4	385.4	308.2	221.8	147.4	90.8
42.5°	545.3	539.9	515.1	483.5	444.4	390.1	320.9	242.7	164.1	101.8	57.9
45°	451.7	444.6	429.0	401.0	370.3	313.4	248.9	173.8	111.9	64.2	28.7
47.5°	338.7	339.2	328.5	307.4	277.1	229.6	170.4	116.6	70.2	33.1	6.5
50°	263.8	260.1	245.0	223.4	188.1	152.9	110.1	73.6	37.1	6.8	0.5
52.5°	146.1	148.5	140.4	133.3	115.1	91.3	65.0	37.3	7.8	0.8	0.5
55°	35.7	37.8	36.3	37.1	38.4	34.2	26.4	7.3	0.8	0.5	0.5
57.5°	0.8	0.8	0.8	0.8	1.3	1.8	1.8	0.5	0.5	0.5	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	118.7	118.7	118.7	118.7	118.7	118.7	118.7	118.7
2.5°	159.2	154.2	145.1	117.9	94.7	76.5	65.5	64.4
5°	197.0	183.7	164.4	110.6	69.9	44.4	32.1	30.3
7.5°	227.0	208.2	178.5	98.6	47.7	22.7	12.5	10.4
10°	251.8	225.2	185.8	84.5	30.0	9.7	5.2	4.4
12.5°	268.8	236.7	187.1	68.9	17.2	4.7	3.4	3.1
15°	279.7	240.3	180.8	53.0	9.7	3.1	2.9	2.6
17.5°	284.2	237.2	168.8	38.4	5.2	2.3	2.3	2.3
20°	282.1	227.0	151.1	26.9	3.4	2.1	2.1	2.1
22.5°	272.1	209.5	128.9	18.0	2.3	1.8	1.8	1.8
25°	252.6	185.8	105.4	12.0	1.6	1.6	1.8	1.8
27.5°	223.4	156.6	80.6	8.1	1.3	1.6	1.8	1.8
30°	186.6	123.9	57.9	5.2	1.3	1.6	1.6	1.8
32.5°	148.2	90.3	38.1	3.1	1.0	1.6	1.8	2.1
35°	107.5	61.6	24.3	1.6	1.3	1.6	1.8	2.1
37.5°	75.4	40.2	14.1	1.0	1.3	1.6	2.1	2.1
40°	49.1	22.4	5.2	0.8	1.3	1.8	2.1	2.3
42.5°	25.6	7.8	1.0	0.8	1.3	1.8	2.3	2.6
45°	6.5	1.0	0.3	0.8	1.6	2.1	2.6	2.6
47.5°	0.8	0.3	0.3	1.0	1.6	2.3	2.6	2.9
50°	0.3	0.5	0.5	1.0	1.6	2.3	2.9	3.1
52.5°	0.5	0.5	0.5	1.0	1.8	2.3	3.1	3.4
55°	0.5	0.5	0.5	1.0	1.8	2.6	3.1	3.4
57.5°	0.5	0.5	0.5	1.0	1.8	2.6	3.1	3.1
60°	0.5	0.5	0.5	1.0	1.8	2.6	3.1	3.1
62.5°	0.5	0.5	0.8	1.0	1.8	2.3	3.1	3.1
65°	0.5	0.8	0.8	1.0	1.8	2.3	2.9	3.1
67.5°	0.5	0.5	0.8	1.0	1.8	2.3	2.9	3.1
70°	0.5	0.5	0.8	1.0	1.6	2.1	2.6	2.9
72.5°	0.5	0.5	0.8	1.0	1.6	2.1	2.3	2.6
75°	0.5	0.5	0.8	1.0	1.3	1.8	2.3	2.3
77.5°	0.5	0.5	0.8	0.8	1.3	1.6	2.1	2.1
80°	0.5	0.5	0.8	0.8	1.0	1.3	1.6	1.8
82.5°	0.5	0.5	0.5	0.8	0.8	1.0	1.3	1.3
85°	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8
87.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)