

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: P1335961

Luminaire Tested: P3A02R459027DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335961
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: P3A02R459027DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

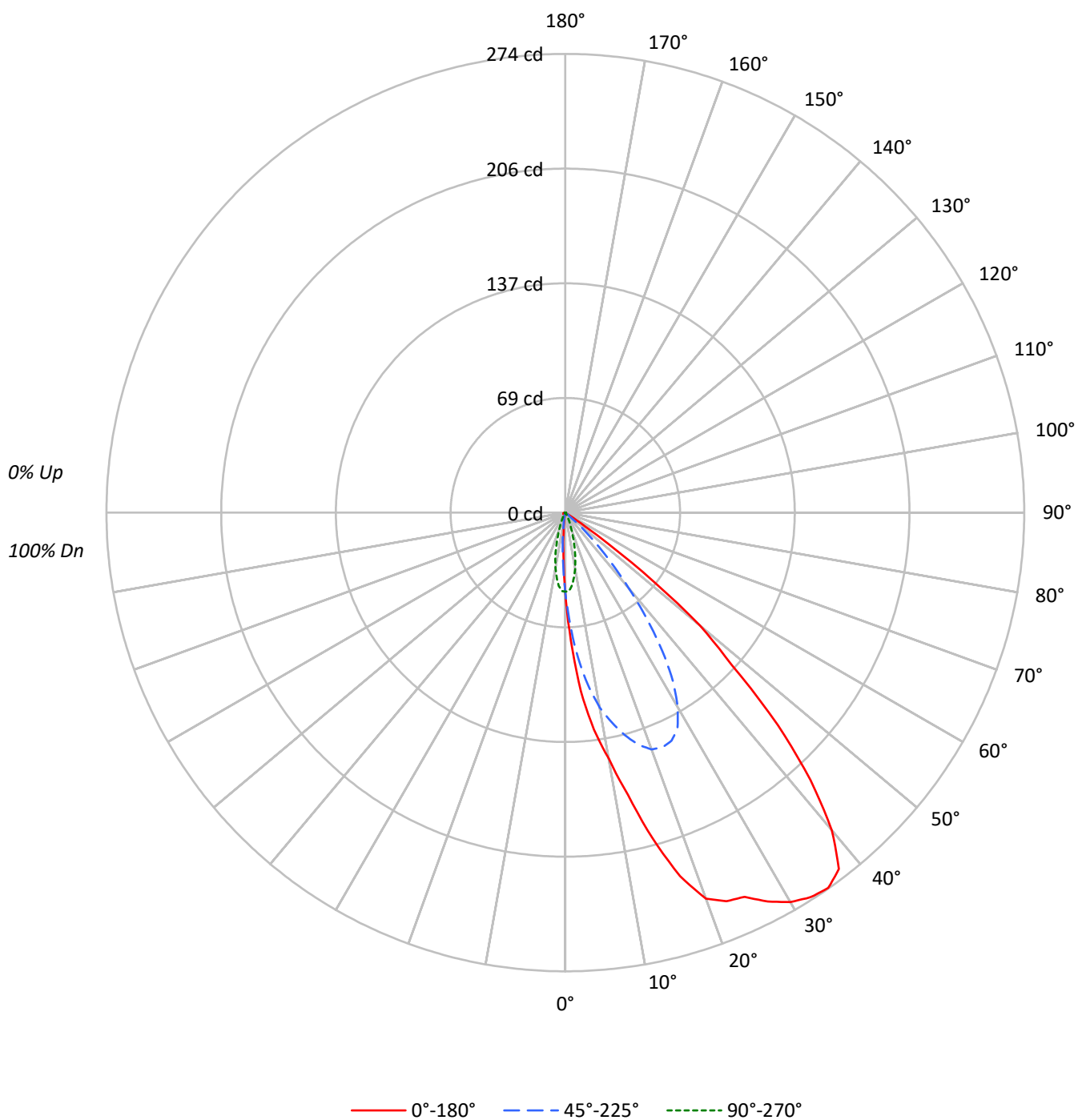
Lumens per Lamp: N/A
Luminaire Lumens: 123.9 lumens
Efficiency: N/A
Efficacy: 34.4 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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	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	78	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°	10350	10350	10350	10350	10350
5°	23575	19128	9685	3874	2641
10°	33221	26274	7481	846	401
15°	45789	31260	4790	272	227
20°	57265	35120	2497	187	187
25°	61262	36365	1161	145	169
30°	68010	33955	532	152	177
35°	73267	27064	161	161	214
40°	70876	16774	86	200	258
45°	55665	7908	93	248	310
50°	35751	921	136	307	409
55°	5429	76	153	382	497
60°	88	88	175	439	526
65°	104	104	208	467	623
70°	128	128	256	513	705
75°	85	169	339	593	763
80°	126	253	379	631	884
85°	0	252	503	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 55665 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	4.2
10°-20°	18.7	15.1
20°-30°	32.8	26.5
30°-40°	37.2	30.1
40°-50°	24.1	19.5
50°-60°	4.7	3.8
60°-70°	0.6	0.4
70°-80°	0.5	0.4
80°-90°	0.2	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°	56.6	45.7
0°-40°	93.9	75.8
0°-60°	122.7	99.0
0°-90°	123.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	123.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	47	47	47	47	47	
5°	107	87	44	18	12	11
15°	202	138	21	1	1	58
25°	253	150	5	1	1	119
35°	274	101	1	1	1	168
45°	180	26	0	1	1	135
55°	14	0	0	1	1	27
65°	0	0	0	1	1	0
75°	0	0	0	1	1	0
85°	0	0	0	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°	50°
0°	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
2.5°	76.6	76.4	76.7	74.7	74.6	73.0	72.6	70.8	68.4	67.3	64.6
5°	107.1	106.1	106.1	103.6	102.8	101.0	98.0	94.3	91.2	86.9	82.3
7.5°	130.7	130.5	130.5	128.3	126.2	123.7	119.7	115.4	110.4	103.9	97.3
10°	149.2	149.5	148.6	146.6	143.6	140.9	136.2	131.0	124.9	118.0	109.2
12.5°	172.7	170.4	169.7	165.2	161.4	156.2	150.5	144.6	137.0	128.4	118.4
15°	201.7	198.8	195.9	190.0	183.6	175.6	166.6	157.9	148.2	137.7	125.3
17.5°	227.6	227.6	223.8	214.5	206.2	194.3	182.3	170.7	159.2	145.4	129.8
20°	245.4	244.4	241.5	234.7	225.2	211.9	196.2	179.9	166.0	150.5	132.4
22.5°	251.2	251.0	251.1	247.0	239.4	225.6	206.4	187.2	169.8	151.7	131.2
25°	253.2	253.7	254.7	253.1	247.4	233.5	212.6	190.6	170.9	150.3	126.4
27.5°	261.8	261.0	262.2	261.1	254.7	238.1	213.8	189.8	168.4	145.0	117.9
30°	268.6	268.4	270.4	269.4	261.0	241.0	212.7	186.7	162.3	134.1	104.5
32.5°	272.4	272.5	273.0	269.2	256.8	234.7	207.1	180.3	150.8	119.9	87.1
35°	273.7	273.0	270.1	260.7	243.7	220.1	193.3	165.3	135.1	101.1	68.9
37.5°	268.3	265.1	257.6	243.5	223.8	201.7	175.7	146.3	113.7	79.9	51.3
40°	247.6	243.4	234.0	219.5	201.2	179.8	153.2	122.5	88.1	58.6	36.1
42.5°	216.7	214.6	204.7	192.2	176.6	155.0	127.6	96.4	65.2	40.4	23.0
45°	179.5	176.7	170.5	159.4	147.2	124.5	98.9	69.1	44.5	25.5	11.4
47.5°	134.6	134.8	130.6	122.2	110.1	91.3	67.7	46.4	27.9	13.2	2.6
50°	104.8	103.4	97.4	88.8	74.8	60.8	43.8	29.2	14.7	2.7	0.2
52.5°	58.1	59.0	55.8	53.0	45.7	36.3	25.8	14.8	3.1	0.3	0.2
55°	14.2	15.0	14.4	14.7	15.2	13.6	10.5	2.9	0.3	0.2	0.2
57.5°	0.3	0.3	0.3	0.3	0.5	0.7	0.7	0.2	0.2	0.2	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
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°	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
2.5°	63.3	61.3	57.7	46.9	37.6	30.4	26.0	25.6
5°	78.3	73.0	65.3	44.0	27.8	17.6	12.8	12.0
7.5°	90.2	82.8	70.9	39.2	19.0	9.0	5.0	4.1
10°	100.1	89.5	73.8	33.6	11.9	3.8	2.1	1.8
12.5°	106.8	94.1	74.4	27.4	6.8	1.9	1.3	1.2
15°	111.2	95.5	71.9	21.1	3.8	1.2	1.1	1.0
17.5°	112.9	94.3	67.1	15.2	2.1	0.9	0.9	0.9
20°	112.1	90.2	60.0	10.7	1.3	0.8	0.8	0.8
22.5°	108.2	83.3	51.2	7.2	0.9	0.7	0.7	0.7
25°	100.4	73.8	41.9	4.8	0.6	0.6	0.7	0.7
27.5°	88.8	62.2	32.0	3.2	0.5	0.6	0.7	0.7
30°	74.1	49.3	23.0	2.1	0.5	0.6	0.6	0.7
32.5°	58.9	35.9	15.1	1.2	0.4	0.6	0.7	0.8
35°	42.7	24.5	9.6	0.6	0.5	0.6	0.7	0.8
37.5°	30.0	16.0	5.6	0.4	0.5	0.6	0.8	0.8
40°	19.5	8.9	2.1	0.3	0.5	0.7	0.8	0.9
42.5°	10.2	3.1	0.4	0.3	0.5	0.7	0.9	1.0
45°	2.6	0.4	0.1	0.3	0.6	0.8	1.0	1.0
47.5°	0.3	0.1	0.1	0.4	0.6	0.9	1.0	1.1
50°	0.1	0.2	0.2	0.4	0.6	0.9	1.1	1.2
52.5°	0.2	0.2	0.2	0.4	0.7	0.9	1.2	1.3
55°	0.2	0.2	0.2	0.4	0.7	1.0	1.2	1.3
57.5°	0.2	0.2	0.2	0.4	0.7	1.0	1.2	1.2
60°	0.2	0.2	0.2	0.4	0.7	1.0	1.2	1.2
62.5°	0.2	0.2	0.3	0.4	0.7	0.9	1.2	1.2
65°	0.2	0.3	0.3	0.4	0.7	0.9	1.1	1.2
67.5°	0.2	0.2	0.3	0.4	0.7	0.9	1.1	1.2
70°	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.1
72.5°	0.2	0.2	0.3	0.4	0.6	0.8	0.9	1.0
75°	0.2	0.2	0.3	0.4	0.5	0.7	0.9	0.9
77.5°	0.2	0.2	0.3	0.3	0.5	0.6	0.8	0.8
80°	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.7
82.5°	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.5
85°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
87.5°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)