

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: P1336073

Luminaire Tested: P3A02R459730DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336073
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: P3A02R459730DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

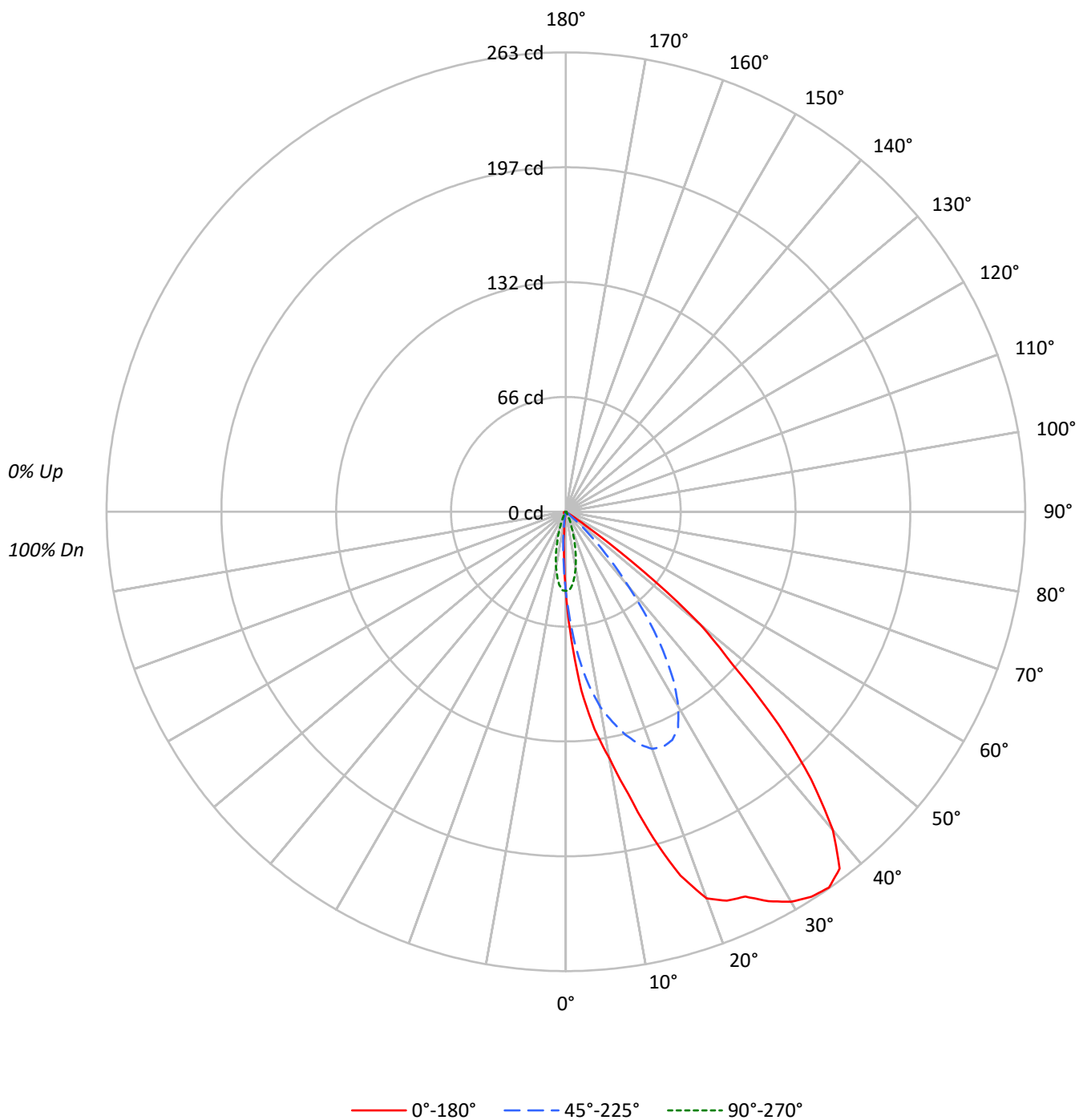
Lumens per Lamp: N/A
Luminaire Lumens: 119.0 lumens
Efficiency: N/A
Efficacy: 33.1 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1336073

CATALOG NUMBER: P3A02R459730DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1336073

CATALOG NUMBER: P3A02R459730DE010 E3A301GPH

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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	84	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	46	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9933	9933	9933	9933	9933
5°	22628	18358	9289	3720	2531
10°	31885	25228	7170	824	379
15°	43950	30012	4586	272	227
20°	54955	33696	2404	187	187
25°	58794	34889	1113	145	169
30°	65276	32587	506	152	177
35°	70296	25966	161	161	214
40°	68042	16087	86	200	258
45°	53432	7598	93	248	310
50°	34319	887	136	307	409
55°	5199	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: 53432 cd/sqm

TEST NUMBER: P1336073

CATALOG NUMBER: P3A02R459730DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	4.2
10°-20°	17.9	15.1
20°-30°	31.5	26.4
30°-40°	35.7	30.0
40°-50°	23.1	19.4
50°-60°	4.5	3.8
60°-70°	0.6	0.5
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°	54.4	45.7
0°-40°	90.1	75.7
0°-60°	117.8	99.0
0°-90°	119.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	119.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	45	45	45	45	45	
5°	103	83	42	17	12	11
15°	194	132	20	1	1	56
25°	243	144	5	1	1	114
35°	263	97	1	1	1	161
45°	172	24	0	1	1	130
55°	14	0	0	1	1	26
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	

TEST NUMBER: P1336073

CATALOG NUMBER: P3A02R459730DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
2.5°	73.5	73.3	73.6	71.7	71.6	70.1	69.7	68.0	65.7	64.6	62.0
5°	102.8	101.8	101.8	99.4	98.6	96.9	94.0	90.5	87.5	83.4	79.0
7.5°	125.4	125.2	125.2	123.1	121.1	118.7	114.8	110.8	106.0	99.7	93.4
10°	143.2	143.5	142.6	140.7	137.8	135.2	130.7	125.7	119.8	113.3	104.8
12.5°	165.7	163.5	162.8	158.5	154.9	149.9	144.4	138.7	131.5	123.2	113.7
15°	193.6	190.8	188.0	182.3	176.2	168.5	159.9	151.6	142.2	132.2	120.2
17.5°	218.4	218.4	214.8	205.8	197.8	186.5	175.0	163.8	152.8	139.5	124.6
20°	235.5	234.6	231.8	225.2	216.2	203.3	188.3	172.7	159.3	144.4	127.1
22.5°	241.0	240.8	240.9	237.1	229.8	216.5	198.0	179.6	162.9	145.6	125.9
25°	243.0	243.4	244.4	242.9	237.5	224.1	204.0	182.9	164.0	144.2	121.3
27.5°	251.3	250.5	251.6	250.6	244.4	228.5	205.2	182.1	161.6	139.1	113.2
30°	257.8	257.6	259.5	258.6	250.5	231.3	204.1	179.1	155.7	128.7	100.3
32.5°	261.4	261.5	262.0	258.4	246.4	225.2	198.7	173.1	144.7	115.0	83.6
35°	262.6	262.0	259.3	250.2	233.9	211.2	185.5	158.6	129.7	97.0	66.1
37.5°	257.5	254.4	247.2	233.7	214.8	193.6	168.6	140.4	109.1	76.6	49.3
40°	237.7	233.6	224.5	210.7	193.1	172.6	147.0	117.5	84.6	56.2	34.6
42.5°	208.0	205.9	196.5	184.4	169.5	148.8	122.4	92.6	62.6	38.8	22.1
45°	172.3	169.6	163.6	153.0	141.2	119.5	94.9	66.3	42.7	24.5	10.9
47.5°	129.2	129.4	125.3	117.2	105.7	87.6	65.0	44.5	26.8	12.6	2.5
50°	100.6	99.2	93.4	85.2	71.8	58.3	42.0	28.1	14.1	2.6	0.2
52.5°	55.7	56.6	53.5	50.9	43.9	34.8	24.8	14.2	3.0	0.3	0.2
55°	13.6	14.4	13.8	14.1	14.6	13.0	10.1	2.8	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

TEST NUMBER: P1336073

CATALOG NUMBER: P3A02R459730DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
2.5°	60.7	58.8	55.3	45.0	36.1	29.2	25.0	24.6
5°	75.1	70.1	62.7	42.2	26.7	16.9	12.2	11.5
7.5°	86.6	79.4	68.1	37.6	18.2	8.7	4.8	4.0
10°	96.0	85.9	70.9	32.2	11.4	3.7	2.0	1.7
12.5°	102.5	90.3	71.4	26.3	6.6	1.8	1.3	1.2
15°	106.7	91.7	69.0	20.2	3.7	1.2	1.1	1.0
17.5°	108.4	90.5	64.4	14.6	2.0	0.9	0.9	0.9
20°	107.6	86.6	57.6	10.3	1.3	0.8	0.8	0.8
22.5°	103.8	79.9	49.2	6.9	0.9	0.7	0.7	0.7
25°	96.3	70.9	40.2	4.6	0.6	0.6	0.7	0.7
27.5°	85.2	59.7	30.8	3.1	0.5	0.6	0.7	0.7
30°	71.2	47.3	22.1	2.0	0.5	0.6	0.6	0.7
32.5°	56.5	34.4	14.5	1.2	0.4	0.6	0.7	0.8
35°	41.0	23.5	9.3	0.6	0.5	0.6	0.7	0.8
37.5°	28.8	15.3	5.4	0.4	0.5	0.6	0.8	0.8
40°	18.7	8.6	2.0	0.3	0.5	0.7	0.8	0.9
42.5°	9.8	3.0	0.4	0.3	0.5	0.7	0.9	1.0
45°	2.5	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)