

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: P1336105

Luminaire Tested: P3A02R459740DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336105
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: P3A02R459740DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

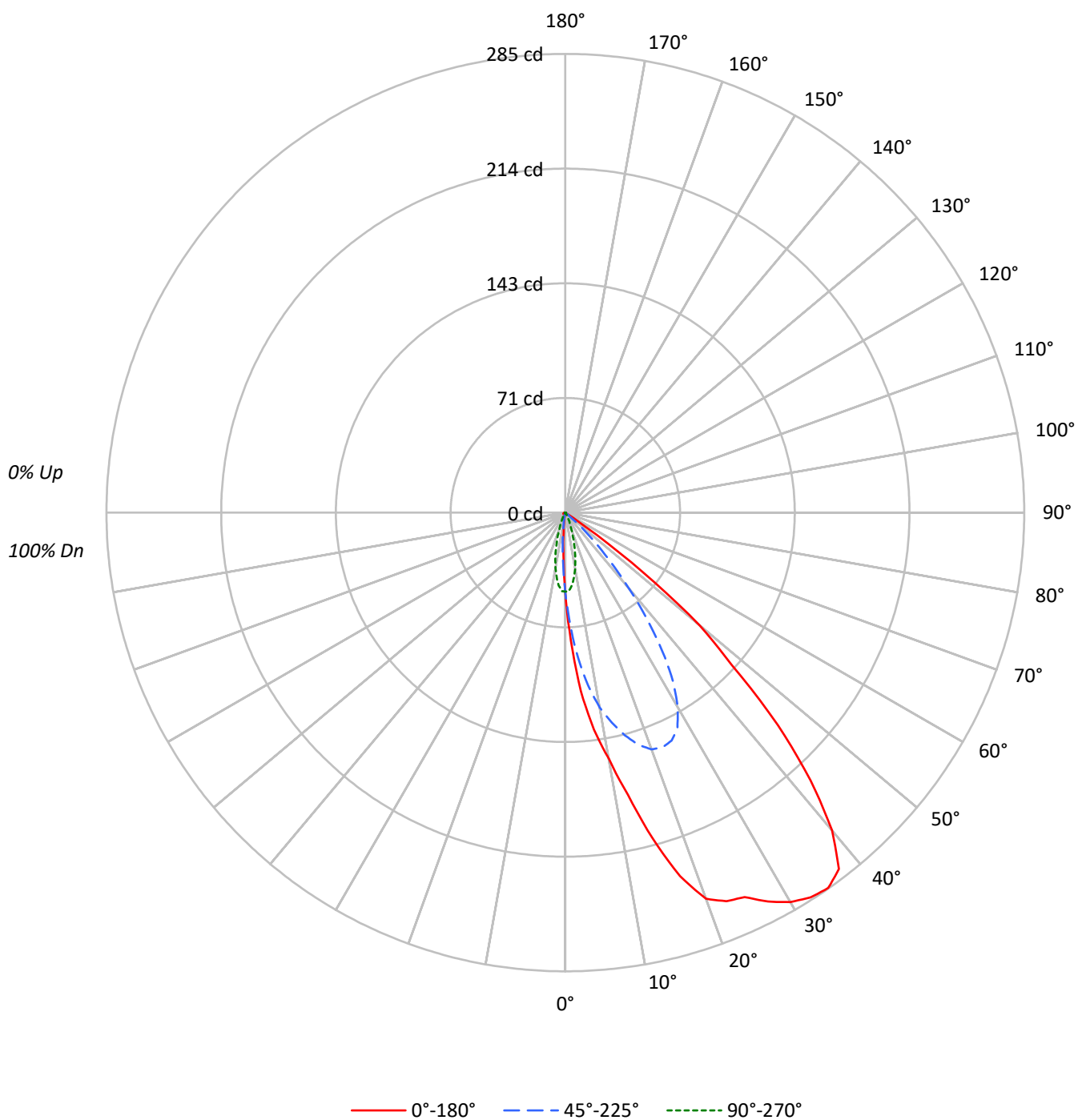
Lumens per Lamp: N/A
Luminaire Lumens: 129.0 lumens
Efficiency: N/A
Efficacy: 35.8 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1336105

CATALOG NUMBER: P3A02R459740DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1336105

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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	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°	10767	10767	10767	10767	10767
5°	24521	19899	10059	4028	2751
10°	34557	27343	7793	891	401
15°	47628	32531	4972	295	250
20°	59575	36520	2590	210	210
25°	63754	37817	1210	145	194
30°	70745	35322	557	152	203
35°	76212	28161	161	161	241
40°	73738	17461	86	229	286
45°	57897	8218	93	279	341
50°	37218	955	136	341	443
55°	5658	76	153	421	535
60°	88	88	175	482	570
65°	104	104	208	519	675
70°	128	128	256	577	769
75°	85	169	339	678	847
80°	126	253	379	631	1010
85°	0	252	503	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 57897 cd/sqm

TEST NUMBER: P1336105

CATALOG NUMBER: P3A02R459740DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	4.2
10°-20°	19.4	15.1
20°-30°	34.1	26.5
30°-40°	38.7	30.0
40°-50°	25.1	19.5
50°-60°	4.9	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°	58.9	45.7
0°-40°	97.7	75.7
0°-60°	127.7	99.0
0°-90°	129.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	129.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	49	49	49	49	49	
5°	111	90	46	18	12	12
15°	210	143	22	1	1	60
25°	264	156	5	1	1	124
35°	285	105	1	1	1	175
45°	187	26	0	1	1	141
55°	15	0	0	1	1	28
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: P1336105

CATALOG NUMBER: P3A02R459740DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
2.5°	79.7	79.5	79.8	77.7	77.6	76.0	75.5	73.7	71.2	70.0	67.2
5°	111.4	110.4	110.4	107.8	106.9	105.1	102.0	98.1	94.8	90.4	85.7
7.5°	135.9	135.7	135.7	133.5	131.3	128.7	124.5	120.1	114.9	108.1	101.2
10°	155.2	155.6	154.6	152.5	149.4	146.6	141.7	136.3	129.9	122.8	113.6
12.5°	179.6	177.3	176.5	171.9	167.9	162.5	156.5	150.4	142.5	133.6	123.2
15°	209.8	206.8	203.8	197.6	191.0	182.6	173.4	164.3	154.2	143.3	130.3
17.5°	236.8	236.8	232.8	223.1	214.5	202.2	189.7	177.6	165.6	151.3	135.1
20°	255.3	254.3	251.3	244.1	234.3	220.4	204.1	187.2	172.7	156.5	137.8
22.5°	261.3	261.1	261.2	257.0	249.1	234.6	214.7	194.7	176.6	157.8	136.5
25°	263.5	263.9	265.0	263.3	257.4	243.0	221.2	198.3	177.8	156.3	131.5
27.5°	272.4	271.5	272.7	271.7	265.0	247.7	222.5	197.4	175.2	150.8	122.7
30°	279.4	279.2	281.3	280.3	271.5	250.7	221.3	194.2	168.8	139.5	108.7
32.5°	283.4	283.5	284.1	280.1	267.1	244.1	215.4	187.6	156.9	124.7	90.6
35°	284.7	284.1	281.0	271.2	253.5	228.9	201.1	172.0	140.6	105.2	71.6
37.5°	279.1	275.8	268.0	253.3	232.8	209.8	182.8	152.2	118.2	83.1	53.4
40°	257.6	253.2	243.4	228.4	209.3	187.1	159.3	127.4	91.7	61.0	37.5
42.5°	225.5	223.2	213.0	199.9	183.7	161.3	132.7	100.3	67.9	42.1	24.0
45°	186.7	183.8	177.4	165.8	153.1	129.6	102.9	71.9	46.3	26.5	11.9
47.5°	140.0	140.2	135.8	127.1	114.6	94.9	70.4	48.2	29.0	13.7	2.7
50°	109.1	107.6	101.3	92.3	77.8	63.2	45.5	30.4	15.3	2.8	0.2
52.5°	60.4	61.4	58.0	55.1	47.6	37.8	26.9	15.4	3.2	0.3	0.2
55°	14.8	15.6	15.0	15.3	15.9	14.1	10.9	3.0	0.3	0.2	0.2
57.5°	0.3	0.3	0.3	0.3	0.5	0.8	0.8	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: P1336105

CATALOG NUMBER: P3A02R459740DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
2.5°	65.8	63.8	60.0	48.8	39.2	31.6	27.1	26.6
5°	81.5	76.0	68.0	45.7	28.9	18.3	13.3	12.5
7.5°	93.9	86.1	73.8	40.8	19.7	9.4	5.2	4.3
10°	104.1	93.1	76.8	35.0	12.4	4.0	2.2	1.8
12.5°	111.1	97.9	77.4	28.5	7.1	1.9	1.4	1.3
15°	115.7	99.4	74.8	21.9	4.0	1.3	1.2	1.1
17.5°	117.5	98.1	69.8	15.9	2.2	1.0	1.0	1.0
20°	116.6	93.9	62.5	11.1	1.4	0.9	0.9	0.9
22.5°	112.5	86.6	53.3	7.4	1.0	0.8	0.8	0.8
25°	104.4	76.8	43.6	5.0	0.6	0.6	0.8	0.8
27.5°	92.3	64.7	33.3	3.3	0.5	0.6	0.8	0.8
30°	77.1	51.2	24.0	2.2	0.5	0.6	0.6	0.8
32.5°	61.3	37.3	15.8	1.3	0.4	0.6	0.8	0.9
35°	44.4	25.5	10.0	0.6	0.5	0.6	0.8	0.9
37.5°	31.2	16.6	5.8	0.4	0.5	0.6	0.9	0.9
40°	20.3	9.3	2.2	0.3	0.5	0.8	0.9	1.0
42.5°	10.6	3.2	0.4	0.3	0.5	0.8	1.0	1.1
45°	2.7	0.4	0.1	0.3	0.6	0.9	1.1	1.1
47.5°	0.3	0.1	0.1	0.4	0.6	1.0	1.1	1.2
50°	0.1	0.2	0.2	0.4	0.6	1.0	1.2	1.3
52.5°	0.2	0.2	0.2	0.4	0.8	1.0	1.3	1.4
55°	0.2	0.2	0.2	0.4	0.8	1.1	1.3	1.4
57.5°	0.2	0.2	0.2	0.4	0.8	1.1	1.3	1.3
60°	0.2	0.2	0.2	0.4	0.8	1.1	1.3	1.3
62.5°	0.2	0.2	0.3	0.4	0.8	1.0	1.3	1.3
65°	0.2	0.3	0.3	0.4	0.8	1.0	1.2	1.3
67.5°	0.2	0.2	0.3	0.4	0.8	1.0	1.2	1.3
70°	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.2
72.5°	0.2	0.2	0.3	0.4	0.6	0.9	1.0	1.1
75°	0.2	0.2	0.3	0.4	0.5	0.8	1.0	1.0
77.5°	0.2	0.2	0.3	0.3	0.5	0.6	0.9	0.9
80°	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8
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)