

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: P1335945

Luminaire Tested: P3A02R459024DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335945
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: P3A02R459024DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

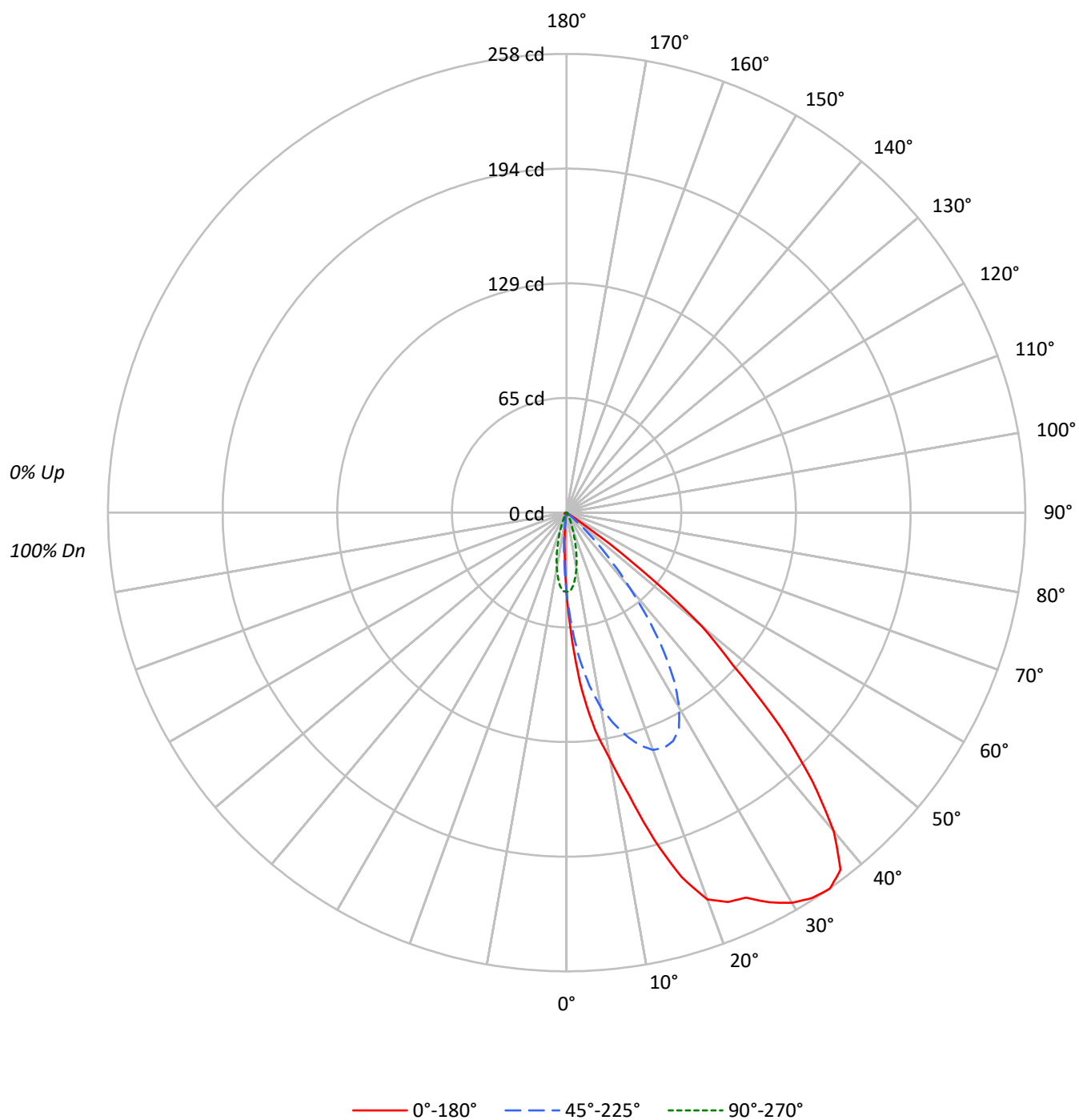
Lumens per Lamp: N/A
Luminaire Lumens: 117.1 lumens
Efficiency: N/A
Efficacy: 32.5 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1335945

CATALOG NUMBER: P3A02R459024DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1335945

CATALOG NUMBER: P3A02R459024DE010 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	94	91	88	91	88	86	89	86	84	84	84	82
3	99	91	85	80	96	89	84	79	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	75	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	42	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°	9758	9758	9758	9758	9758
5°	22254	18050	9135	3654	2509
10°	31351	24805	7058	802	379
15°	43201	29489	4518	272	227
20°	54021	33136	2357	187	187
25°	57802	34308	1089	145	169
30°	64162	32030	506	152	177
35°	69118	25538	161	161	214
40°	66897	15830	86	200	258
45°	52533	7474	93	248	310
50°	33739	853	136	307	409
55°	5123	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: 52533 cd/sqm

TEST NUMBER: P1335945

CATALOG NUMBER: P3A02R459024DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	4.2
10°-20°	17.6	15.1
20°-30°	31.0	26.4
30°-40°	35.1	30.0
40°-50°	22.8	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°	53.4	45.7
0°-40°	88.6	75.7
0°-60°	115.8	99.0
0°-90°	117.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	117.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	44	44	44	44	44	
5°	101	82	42	17	11	11
15°	190	130	20	1	1	55
25°	239	142	4	1	1	112
35°	258	95	1	1	1	159
45°	169	24	0	1	1	128
55°	13	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: P1335945

CATALOG NUMBER: P3A02R459024DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
2.5°	72.3	72.1	72.4	70.5	70.4	68.9	68.5	66.8	64.6	63.5	61.0
5°	101.1	100.1	100.1	97.8	97.0	95.3	92.5	88.9	86.0	82.0	77.7
7.5°	123.3	123.1	123.1	121.0	119.1	116.7	112.9	108.9	104.2	98.0	91.8
10°	140.8	141.1	140.2	138.4	135.5	133.0	128.5	123.6	117.8	111.4	103.0
12.5°	162.9	160.8	160.1	155.9	152.3	147.4	142.0	136.4	129.3	121.1	111.7
15°	190.3	187.6	184.8	179.3	173.2	165.7	157.2	149.0	139.8	129.9	118.2
17.5°	214.8	214.8	211.2	202.3	194.5	183.4	172.0	161.1	150.2	137.2	122.5
20°	231.5	230.6	227.9	221.4	212.5	199.9	185.1	169.8	156.7	142.0	125.0
22.5°	237.0	236.8	236.9	233.1	225.9	212.8	194.7	176.6	160.2	143.2	123.8
25°	238.9	239.3	240.3	238.8	233.5	220.4	200.6	179.8	161.3	141.8	119.3
27.5°	247.1	246.3	247.4	246.4	240.3	224.7	201.8	179.1	158.9	136.8	111.3
30°	253.4	253.2	255.1	254.2	246.3	227.4	200.7	176.1	153.1	126.5	98.6
32.5°	257.0	257.1	257.6	254.0	242.3	221.4	195.4	170.2	142.3	113.1	82.2
35°	258.2	257.6	254.9	246.0	229.9	207.6	182.4	156.0	127.5	95.4	65.0
37.5°	253.1	250.1	243.1	229.7	211.2	190.3	165.8	138.1	107.2	75.3	48.4
40°	233.7	229.6	220.7	207.1	189.8	169.7	144.5	115.6	83.2	55.3	34.1
42.5°	204.5	202.4	193.2	181.3	166.6	146.3	120.4	91.0	61.5	38.2	21.7
45°	169.4	166.7	160.9	150.4	138.8	117.5	93.3	65.2	42.0	24.1	10.8
47.5°	127.0	127.2	123.2	115.3	103.9	86.1	63.9	43.7	26.3	12.4	2.4
50°	98.9	97.6	91.9	83.8	70.5	57.3	41.3	27.6	13.9	2.5	0.2
52.5°	54.8	55.7	52.6	50.0	43.2	34.2	24.4	14.0	2.9	0.3	0.2
55°	13.4	14.2	13.6	13.9	14.4	12.8	9.9	2.7	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: P1335945

CATALOG NUMBER: P3A02R459024DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
2.5°	59.7	57.8	54.4	44.2	35.5	28.7	24.6	24.2
5°	73.9	68.9	61.6	41.5	26.2	16.6	12.0	11.4
7.5°	85.1	78.1	66.9	37.0	17.9	8.5	4.7	3.9
10°	94.4	84.4	69.7	31.7	11.3	3.6	2.0	1.7
12.5°	100.8	88.7	70.2	25.8	6.5	1.8	1.3	1.2
15°	104.9	90.1	67.8	19.9	3.6	1.2	1.1	1.0
17.5°	106.6	88.9	63.3	14.4	2.0	0.9	0.9	0.9
20°	105.8	85.1	56.7	10.1	1.3	0.8	0.8	0.8
22.5°	102.1	78.6	48.3	6.8	0.9	0.7	0.7	0.7
25°	94.7	69.7	39.5	4.5	0.6	0.6	0.7	0.7
27.5°	83.8	58.7	30.2	3.0	0.5	0.6	0.7	0.7
30°	70.0	46.5	21.7	2.0	0.5	0.6	0.6	0.7
32.5°	55.6	33.9	14.3	1.2	0.4	0.6	0.7	0.8
35°	40.3	23.1	9.1	0.6	0.5	0.6	0.7	0.8
37.5°	28.3	15.1	5.3	0.4	0.5	0.6	0.8	0.8
40°	18.4	8.4	2.0	0.3	0.5	0.7	0.8	0.9
42.5°	9.6	2.9	0.4	0.3	0.5	0.7	0.9	1.0
45°	2.4	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)