

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: P1336137

Luminaire Tested: P3A02R459830DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336137
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: P3A02R459830DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

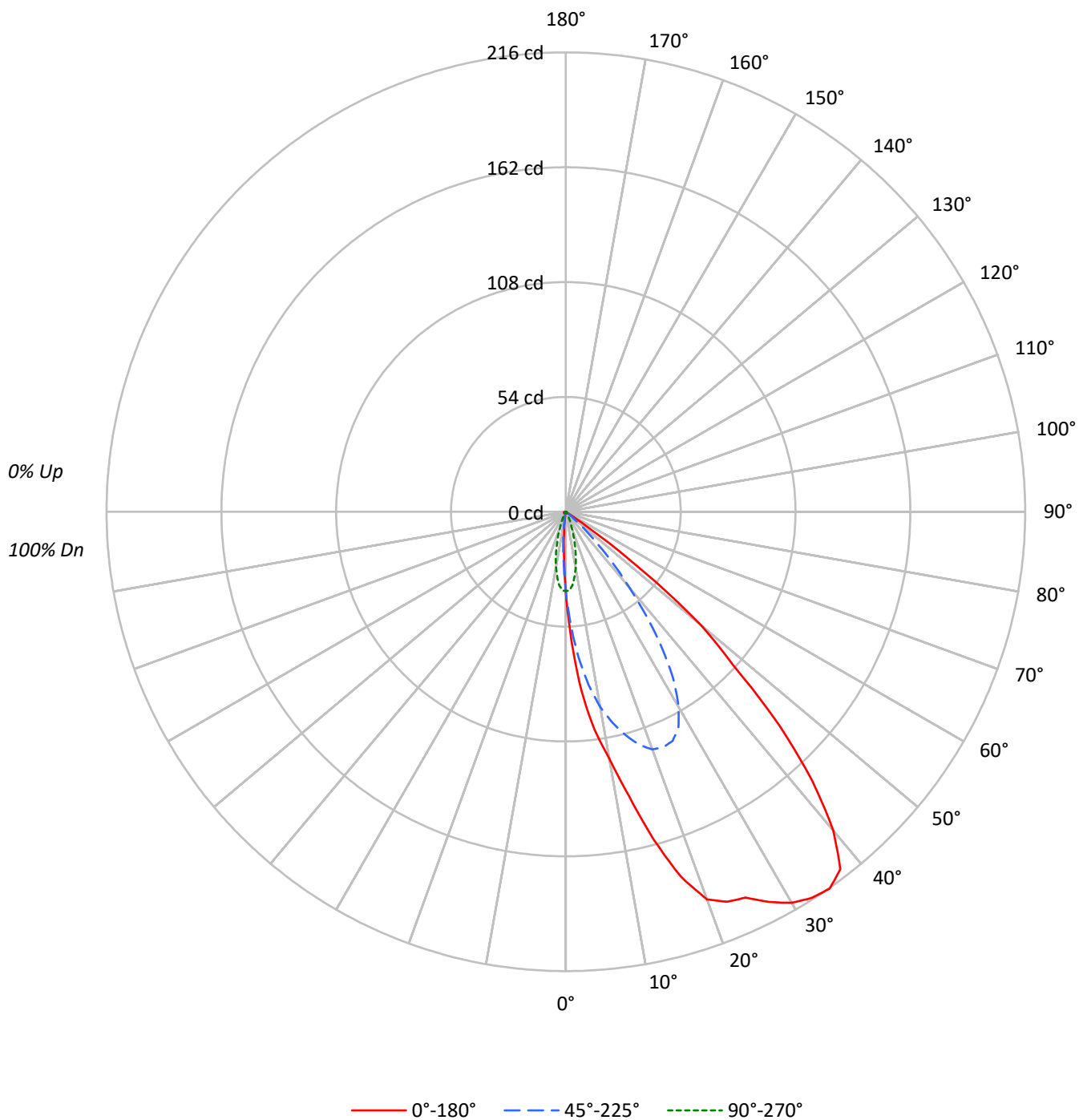
Lumens per Lamp: N/A
Luminaire Lumens: 98.0 lumens
Efficiency: N/A
Efficacy: 27.2 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1336137

CATALOG NUMBER: P3A02R459830DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1336137

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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	94	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°	8179	8179	8179	8179	8179
5°	18644	15122	7660	3060	2091
10°	26252	20774	5923	668	312
15°	36186	24699	3768	227	182
20°	45247	27746	1960	163	163
25°	48414	28744	919	121	145
30°	53755	26840	405	127	152
35°	57902	21389	134	134	187
40°	56019	13253	57	172	200
45°	44005	6264	62	217	248
50°	28281	716	102	239	341
55°	4282	76	115	306	421
60°	88	88	132	351	439
65°	104	104	156	363	519
70°	128	128	192	449	577
75°	85	169	254	508	593
80°	126	253	253	505	758
85°	0	252	503	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 44005 cd/sqm

TEST NUMBER: P1336137

CATALOG NUMBER: P3A02R459830DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	4.2
10°-20°	14.8	15.1
20°-30°	25.9	26.5
30°-40°	29.4	30.0
40°-50°	19.1	19.4
50°-60°	3.7	3.8
60°-70°	0.5	0.5
70°-80°	0.4	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°	44.8	45.7
0°-40°	74.2	75.7
0°-60°	97.0	99.0
0°-90°	98.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	98.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	85	69	35	14	10	9
15°	159	109	17	1	1	46
25°	200	119	4	0	1	94
35°	216	80	0	0	1	133
45°	142	20	0	1	1	107
55°	11	0	0	1	1	21
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: P1336137

CATALOG NUMBER: P3A02R459830DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
2.5°	60.6	60.4	60.6	59.0	58.9	57.7	57.4	56.0	54.1	53.2	51.1
5°	84.7	83.8	83.8	81.9	81.2	79.8	77.5	74.5	72.0	68.7	65.1
7.5°	103.3	103.1	103.1	101.4	99.7	97.8	94.6	91.2	87.3	82.1	76.9
10°	117.9	118.2	117.4	115.9	113.5	111.4	107.6	103.5	98.7	93.3	86.3
12.5°	136.5	134.7	134.1	130.6	127.5	123.4	118.9	114.2	108.3	101.5	93.6
15°	159.4	157.1	154.8	150.1	145.1	138.8	131.7	124.8	117.1	108.8	99.0
17.5°	179.9	179.9	176.9	169.5	162.9	153.6	144.1	134.9	125.8	114.9	102.6
20°	193.9	193.2	190.9	185.5	178.0	167.4	155.1	142.2	131.2	118.9	104.7
22.5°	198.5	198.3	198.4	195.2	189.2	178.3	163.1	147.9	134.2	119.9	103.7
25°	200.1	200.5	201.3	200.1	195.6	184.6	168.0	150.6	135.1	118.8	99.9
27.5°	206.9	206.3	207.2	206.4	201.3	188.2	169.0	150.0	133.1	114.6	93.2
30°	212.3	212.1	213.7	212.9	206.3	190.5	168.1	147.5	128.3	106.0	82.6
32.5°	215.3	215.4	215.8	212.8	202.9	185.5	163.7	142.5	119.2	94.7	68.8
35°	216.3	215.8	213.5	206.0	192.6	173.9	152.8	130.6	106.8	79.9	54.4
37.5°	212.0	209.5	203.6	192.4	176.9	159.4	138.8	115.6	89.8	63.1	40.6
40°	195.7	192.4	184.9	173.5	159.0	142.1	121.1	96.8	69.7	46.3	28.5
42.5°	171.3	169.6	161.8	151.9	139.6	122.5	100.8	76.2	51.6	32.0	18.2
45°	141.9	139.7	134.7	126.0	116.3	98.4	78.2	54.6	35.2	20.2	9.0
47.5°	106.4	106.5	103.2	96.5	87.0	72.1	53.5	36.6	22.0	10.4	2.0
50°	82.9	81.7	77.0	70.2	59.1	48.0	34.6	23.1	11.6	2.1	0.2
52.5°	45.9	46.6	44.1	41.9	36.1	28.7	20.4	11.7	2.5	0.2	0.2
55°	11.2	11.9	11.4	11.6	12.0	10.7	8.3	2.3	0.2	0.2	0.2
57.5°	0.2	0.2	0.2	0.2	0.4	0.6	0.6	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: P1336137

CATALOG NUMBER: P3A02R459830DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
2.5°	50.0	48.4	45.6	37.0	29.8	24.0	20.6	20.2
5°	61.9	57.7	51.6	34.8	22.0	13.9	10.1	9.5
7.5°	71.3	65.4	56.1	31.0	15.0	7.1	3.9	3.3
10°	79.1	70.7	58.4	26.6	9.4	3.0	1.6	1.4
12.5°	84.4	74.3	58.8	21.6	5.4	1.5	1.1	1.0
15°	87.9	75.5	56.8	16.6	3.0	1.0	0.9	0.8
17.5°	89.3	74.5	53.0	12.0	1.6	0.7	0.7	0.7
20°	88.6	71.3	47.5	8.4	1.1	0.7	0.7	0.7
22.5°	85.5	65.8	40.5	5.7	0.7	0.6	0.6	0.6
25°	79.3	58.4	33.1	3.8	0.5	0.5	0.6	0.6
27.5°	70.2	49.2	25.3	2.5	0.4	0.5	0.6	0.6
30°	58.6	38.9	18.2	1.6	0.4	0.5	0.5	0.6
32.5°	46.6	28.4	12.0	1.0	0.3	0.5	0.6	0.7
35°	33.8	19.3	7.6	0.5	0.4	0.5	0.6	0.7
37.5°	23.7	12.6	4.4	0.3	0.4	0.5	0.7	0.7
40°	15.4	7.0	1.6	0.2	0.4	0.6	0.7	0.7
42.5°	8.0	2.5	0.3	0.2	0.4	0.6	0.7	0.8
45°	2.0	0.3	0.1	0.2	0.5	0.7	0.8	0.8
47.5°	0.2	0.1	0.1	0.3	0.5	0.7	0.8	0.9
50°	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.0
52.5°	0.2	0.2	0.2	0.3	0.6	0.7	1.0	1.1
55°	0.2	0.2	0.2	0.3	0.6	0.8	1.0	1.1
57.5°	0.2	0.2	0.2	0.3	0.6	0.8	1.0	1.0
60°	0.2	0.2	0.2	0.3	0.6	0.8	1.0	1.0
62.5°	0.2	0.2	0.2	0.3	0.6	0.7	1.0	1.0
65°	0.2	0.2	0.2	0.3	0.6	0.7	0.9	1.0
67.5°	0.2	0.2	0.2	0.3	0.6	0.7	0.9	1.0
70°	0.2	0.2	0.2	0.3	0.5	0.7	0.8	0.9
72.5°	0.2	0.2	0.2	0.3	0.5	0.7	0.7	0.8
75°	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.7
77.5°	0.2	0.2	0.2	0.2	0.4	0.5	0.7	0.7
80°	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6
82.5°	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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)