

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: P1335785

Luminaire Tested: P3A02R409827DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R409827DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

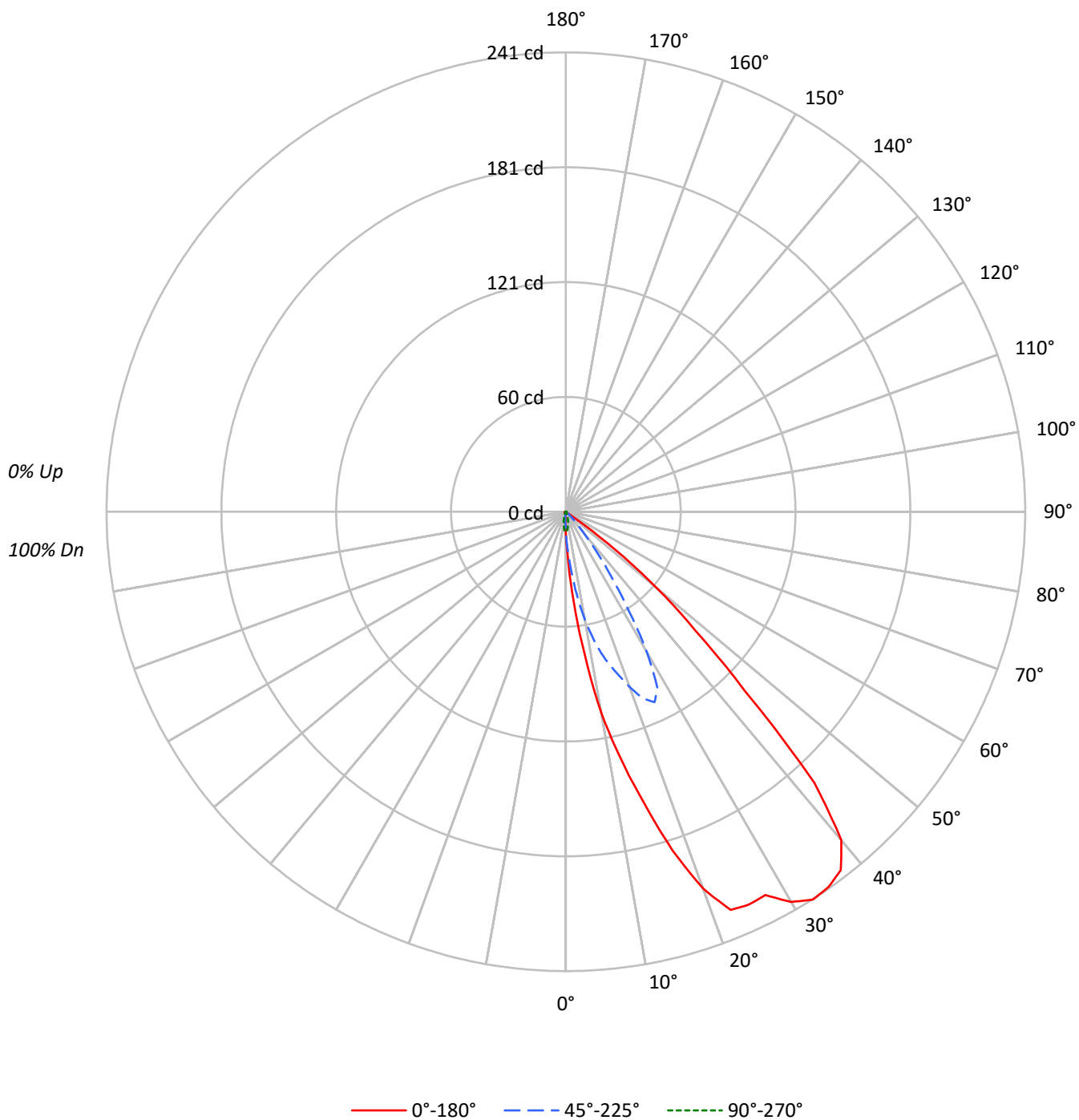
Lumens per Lamp: N/A
Luminaire Lumens: 89.1 lumens
Efficiency: N/A
Efficacy: 24.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1335785

CATALOG NUMBER: P3A02R409827DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1335785

CATALOG NUMBER: P3A02R409827DE010 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	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	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	78	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	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2302	2302	2302	2302	2302
5°	10412	6648	2069	792	572
10°	23892	12825	1447	289	223
15°	35846	18207	908	159	136
20°	49074	22822	537	93	117
25°	55019	26663	266	73	97
30°	59832	21522	127	51	101
35°	64326	11002	54	80	134
40°	64349	4380	29	86	143
45°	41090	1458	62	155	217
50°	21321	171	68	171	273
55°	1835	38	76	229	306
60°	88	44	88	263	351
65°	104	52	156	259	415
70°	64	64	192	321	385
75°	85	85	169	339	424
80°	126	126	253	253	379
85°	0	252	503	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 41090 cd/sqm

TEST NUMBER: P1335785

CATALOG NUMBER: P3A02R409827DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	2.3
10°-20°	12.0	13.5
20°-30°	26.4	29.6
30°-40°	30.1	33.7
40°-50°	15.9	17.8
50°-60°	1.9	2.1
60°-70°	0.4	0.4
70°-80°	0.3	0.3
80°-90°	0.1	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°	40.5	45.4
0°-40°	70.5	79.2
0°-60°	88.3	99.1
0°-90°	89.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	89.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	47	30	9	4	3	6
15°	158	80	4	1	1	47
25°	227	110	1	0	0	105
35°	240	41	0	0	0	149
45°	132	5	0	0	1	107
55°	5	0	0	1	1	15
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1335785

CATALOG NUMBER: P3A02R409827DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
2.5°	23.5	23.5	23.4	22.7	22.6	22.6	21.4	21.1	19.6	18.7	14.2
5°	47.3	46.3	46.2	45.0	43.0	40.2	38.5	35.7	33.0	30.2	17.5
7.5°	75.4	76.3	73.8	72.5	68.0	64.8	59.8	55.4	49.3	43.6	20.2
10°	107.3	105.7	103.2	100.7	95.8	90.0	82.7	74.9	66.1	57.6	21.7
12.5°	132.2	130.1	128.6	125.2	120.4	113.0	104.2	93.8	82.1	69.9	21.7
15°	157.9	155.9	152.5	149.5	142.3	134.0	124.4	110.7	96.4	80.2	20.1
17.5°	186.2	183.5	179.8	175.2	168.3	159.0	146.9	130.2	110.0	88.6	17.2
20°	210.3	208.7	205.0	199.6	192.8	183.8	169.8	151.3	126.6	97.8	13.7
22.5°	226.1	224.7	222.1	217.4	212.3	202.6	189.9	169.5	140.5	106.1	10.4
25°	227.4	226.8	226.1	224.5	221.5	214.6	202.1	180.2	149.2	110.2	7.7
27.5°	226.7	226.5	226.3	225.5	223.5	216.7	203.9	181.8	148.0	103.9	5.6
30°	236.3	235.7	235.3	232.6	227.2	216.8	200.1	173.3	131.6	85.0	4.1
32.5°	241.2	241.1	240.7	238.1	230.6	216.9	193.6	152.8	104.3	61.4	2.8
35°	240.3	239.5	238.2	233.3	222.8	205.7	172.7	122.0	75.3	41.1	1.8
37.5°	236.9	235.2	232.6	223.8	209.9	186.5	140.1	89.8	51.2	26.6	1.1
40°	224.8	222.4	218.3	207.5	189.3	153.8	103.6	60.7	33.6	15.3	0.3
42.5°	193.2	190.2	187.2	175.2	154.3	114.6	68.2	37.5	19.2	8.4	0.1
45°	132.5	128.7	124.6	115.8	99.1	69.4	40.5	21.1	9.9	4.7	0.1
47.5°	92.0	90.3	83.0	71.9	55.1	36.8	21.0	10.4	5.3	2.2	0.1
50°	62.5	60.6	52.1	41.4	29.3	17.6	9.6	5.2	2.3	0.5	0.1
52.5°	32.8	30.4	25.0	19.1	11.9	7.4	4.2	2.3	0.7	0.1	0.1
55°	4.8	4.4	3.6	2.9	2.6	2.0	1.2	0.5	0.1	0.1	0.2
57.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
67.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.1	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.1	0.1	0.1	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
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: P1335785

CATALOG NUMBER: P3A02R409827DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	10.5	10.5	10.5	10.5	10.5
2.5°	10.4	7.7	5.9	5.1	5.0
5°	9.4	5.5	3.6	2.8	2.6
7.5°	8.0	3.8	2.1	1.5	1.4
10°	6.5	2.6	1.3	1.1	1.0
12.5°	5.2	1.7	0.9	0.8	0.8
15°	4.0	1.1	0.7	0.6	0.6
17.5°	3.0	0.8	0.5	0.5	0.5
20°	2.3	0.5	0.4	0.5	0.5
22.5°	1.6	0.4	0.3	0.4	0.4
25°	1.1	0.3	0.3	0.4	0.4
27.5°	0.8	0.2	0.2	0.3	0.4
30°	0.5	0.2	0.2	0.3	0.4
32.5°	0.2	0.2	0.2	0.4	0.4
35°	0.2	0.2	0.3	0.4	0.5
37.5°	0.1	0.2	0.3	0.5	0.5
40°	0.1	0.2	0.3	0.5	0.5
42.5°	0.2	0.3	0.4	0.5	0.6
45°	0.2	0.3	0.5	0.6	0.7
47.5°	0.2	0.3	0.5	0.7	0.7
50°	0.2	0.4	0.5	0.7	0.8
52.5°	0.2	0.4	0.5	0.8	0.8
55°	0.2	0.4	0.6	0.8	0.8
57.5°	0.2	0.5	0.6	0.8	0.8
60°	0.2	0.4	0.6	0.8	0.8
62.5°	0.3	0.4	0.5	0.8	0.8
65°	0.3	0.4	0.5	0.8	0.8
67.5°	0.3	0.4	0.5	0.7	0.7
70°	0.3	0.4	0.5	0.6	0.6
72.5°	0.3	0.4	0.5	0.5	0.6
75°	0.2	0.3	0.4	0.5	0.5
77.5°	0.2	0.3	0.3	0.5	0.5
80°	0.2	0.2	0.2	0.3	0.3
82.5°	0.2	0.2	0.2	0.2	0.2
85°	0.2	0.2	0.2	0.2	0.2
87.5°	0.2	0.2	0.1	0.1	0.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)