

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: P1346071

Luminaire Tested: P3A13R409827DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346071
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: P3A13R409827DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

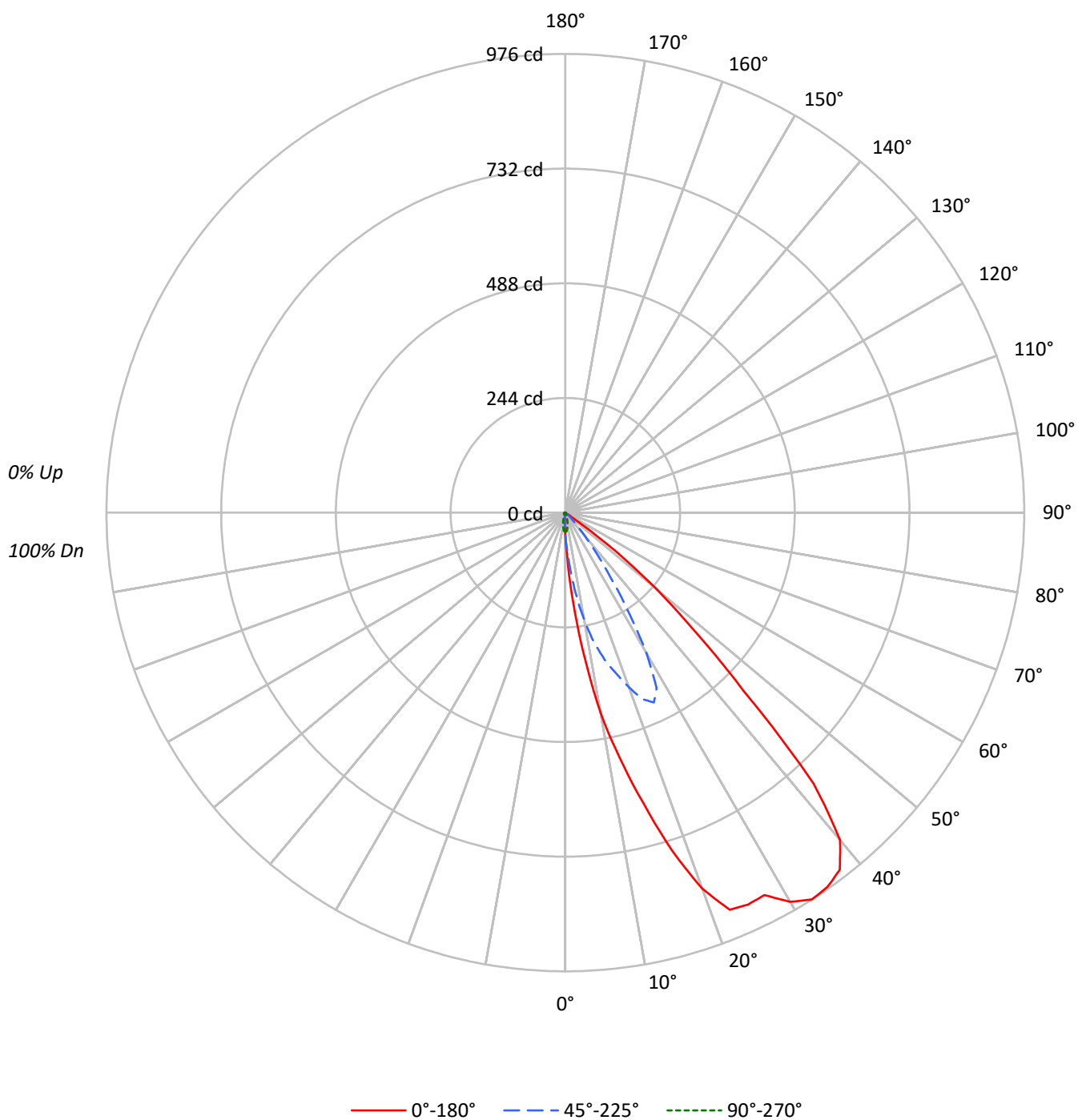
Lumens per Lamp: N/A
Luminaire Lumens: 359.9 lumens
Efficiency: N/A
Efficacy: 24.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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

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Luminous Intensity Polar Plot



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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	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	77	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	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	56	52	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	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9341	9341	9341	9341	9341
5°	42131	26854	8364	3214	2333
10°	96614	51903	5901	1158	891
15°	144995	73621	3655	613	545
20°	198514	92291	2124	350	420
25°	222545	107837	1113	290	363
30°	242063	87051	456	228	380
35°	260143	44544	161	321	482
40°	260230	17776	86	344	601
45°	166157	5954	186	558	837
50°	86240	716	307	716	1023
55°	7455	115	344	918	1262
60°	263	132	395	1053	1447
65°	311	156	623	1090	1557
70°	192	192	769	1154	1539
75°	254	254	763	1271	1779
80°	379	379	1137	1137	1515
85°	0	755	2264	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 166157 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	2.3
10°-20°	48.7	13.5
20°-30°	106.7	29.6
30°-40°	121.6	33.8
40°-50°	64.1	17.8
50°-60°	7.5	2.1
60°-70°	1.3	0.4
70°-80°	1.1	0.3
80°-90°	0.5	0.1
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°	163.7	45.5
0°-40°	285.3	79.3
0°-60°	357.0	99.2
0°-90°	359.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	359.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	43	43	43	43	43	
5°	191	122	38	15	11	26
15°	639	324	16	3	2	188
25°	920	446	5	1	2	424
35°	972	166	1	1	2	602
45°	536	19	1	2	3	432
55°	20	0	1	2	3	60
65°	1	0	1	2	3	1
75°	0	0	1	2	2	0
85°	0	0	1	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
2.5°	94.9	94.9	94.6	91.9	91.6	91.3	86.4	85.2	79.4	75.5	57.5
5°	191.4	187.1	186.8	182.0	173.7	162.8	155.8	144.5	133.6	122.0	70.9
7.5°	304.9	308.5	298.5	293.3	275.1	262.0	241.9	224.2	199.6	176.5	81.8
10°	433.9	427.5	417.5	407.4	387.6	364.2	334.4	303.0	267.4	233.1	87.9
12.5°	534.6	526.4	520.3	506.6	487.1	457.0	421.4	379.4	332.3	282.7	87.6
15°	638.7	630.4	616.7	604.6	575.7	541.9	503.3	447.9	390.1	324.3	81.2
17.5°	753.1	742.4	727.2	708.6	680.6	643.2	594.2	526.7	444.8	358.4	69.7
20°	850.7	844.3	829.1	807.2	779.8	743.3	686.7	611.9	512.1	395.5	55.4
22.5°	914.6	908.8	898.5	879.3	858.6	819.7	768.0	685.8	568.4	429.3	42.0
25°	919.8	917.4	914.6	908.2	895.8	868.1	817.6	729.0	603.4	445.7	31.0
27.5°	917.1	916.1	915.5	912.2	904.0	876.6	824.9	735.4	598.8	420.2	22.8
30°	956.0	953.3	951.7	940.8	919.2	876.9	809.3	701.0	532.2	343.8	16.4
32.5°	975.8	975.2	973.6	963.0	932.6	877.5	783.2	618.0	422.0	248.3	11.3
35°	971.8	968.8	963.3	943.5	901.2	832.2	698.6	493.5	304.6	166.4	7.3
37.5°	958.4	951.4	940.8	905.2	848.9	754.6	566.5	363.3	207.2	107.7	4.3
40°	909.1	899.7	883.0	839.5	765.5	621.9	419.0	245.5	136.0	62.1	1.2
42.5°	781.7	769.5	757.3	708.6	624.0	463.7	275.7	151.8	77.6	34.1	0.3
45°	535.8	520.6	503.9	468.6	400.7	280.8	164.0	85.5	40.2	19.2	0.3
47.5°	372.1	365.1	335.9	290.9	223.0	148.8	84.9	42.0	21.3	8.8	0.3
50°	252.8	244.9	210.9	167.3	118.7	71.2	38.9	21.0	9.4	2.1	0.3
52.5°	132.7	122.9	101.3	77.3	48.1	29.8	17.0	9.1	2.7	0.3	0.3
55°	19.5	18.0	14.6	11.9	10.6	8.2	4.9	2.1	0.3	0.3	0.6
57.5°	0.6	0.6	0.6	0.6	0.9	0.9	0.6	0.3	0.3	0.3	0.6
60°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.6
62.5°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.6
65°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.6
67.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.6	0.9
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.9
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.9
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.9
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.9
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	42.6	42.6	42.6	42.6	42.6
2.5°	42.0	31.0	24.0	20.7	20.4
5°	38.0	22.2	14.6	11.3	10.6
7.5°	32.3	15.5	8.5	6.1	5.8
10°	26.5	10.6	5.2	4.3	4.0
12.5°	21.0	7.0	3.7	3.3	3.0
15°	16.1	4.6	2.7	2.4	2.4
17.5°	12.2	3.0	2.1	2.1	2.1
20°	9.1	2.1	1.5	1.8	1.8
22.5°	6.4	1.5	1.2	1.5	1.5
25°	4.6	1.2	1.2	1.5	1.5
27.5°	3.0	0.9	0.9	1.2	1.5
30°	1.8	0.6	0.9	1.2	1.5
32.5°	0.9	0.6	0.9	1.5	1.5
35°	0.6	0.9	1.2	1.5	1.8
37.5°	0.3	0.9	1.2	1.8	1.8
40°	0.3	0.9	1.2	1.8	2.1
42.5°	0.6	1.2	1.5	2.1	2.4
45°	0.6	1.2	1.8	2.4	2.7
47.5°	0.6	1.2	2.1	2.7	2.7
50°	0.9	1.5	2.1	2.7	3.0
52.5°	0.9	1.5	2.1	3.0	3.3
55°	0.9	1.5	2.4	3.0	3.3
57.5°	0.9	1.8	2.4	3.0	3.3
60°	0.9	1.5	2.4	3.0	3.3
62.5°	1.2	1.5	2.1	3.0	3.0
65°	1.2	1.5	2.1	3.0	3.0
67.5°	1.2	1.5	2.1	2.7	2.7
70°	1.2	1.5	1.8	2.4	2.4
72.5°	1.2	1.5	1.8	2.1	2.4
75°	0.9	1.2	1.5	1.8	2.1
77.5°	0.9	1.2	1.2	1.8	1.8
80°	0.9	0.9	0.9	1.2	1.2
82.5°	0.9	0.9	0.6	0.9	0.9
85°	0.9	0.6	0.6	0.6	0.6
87.5°	0.6	0.6	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)