

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: P1343037

Luminaire Tested: P3A09R459827DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343037
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: P3A09R459827DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

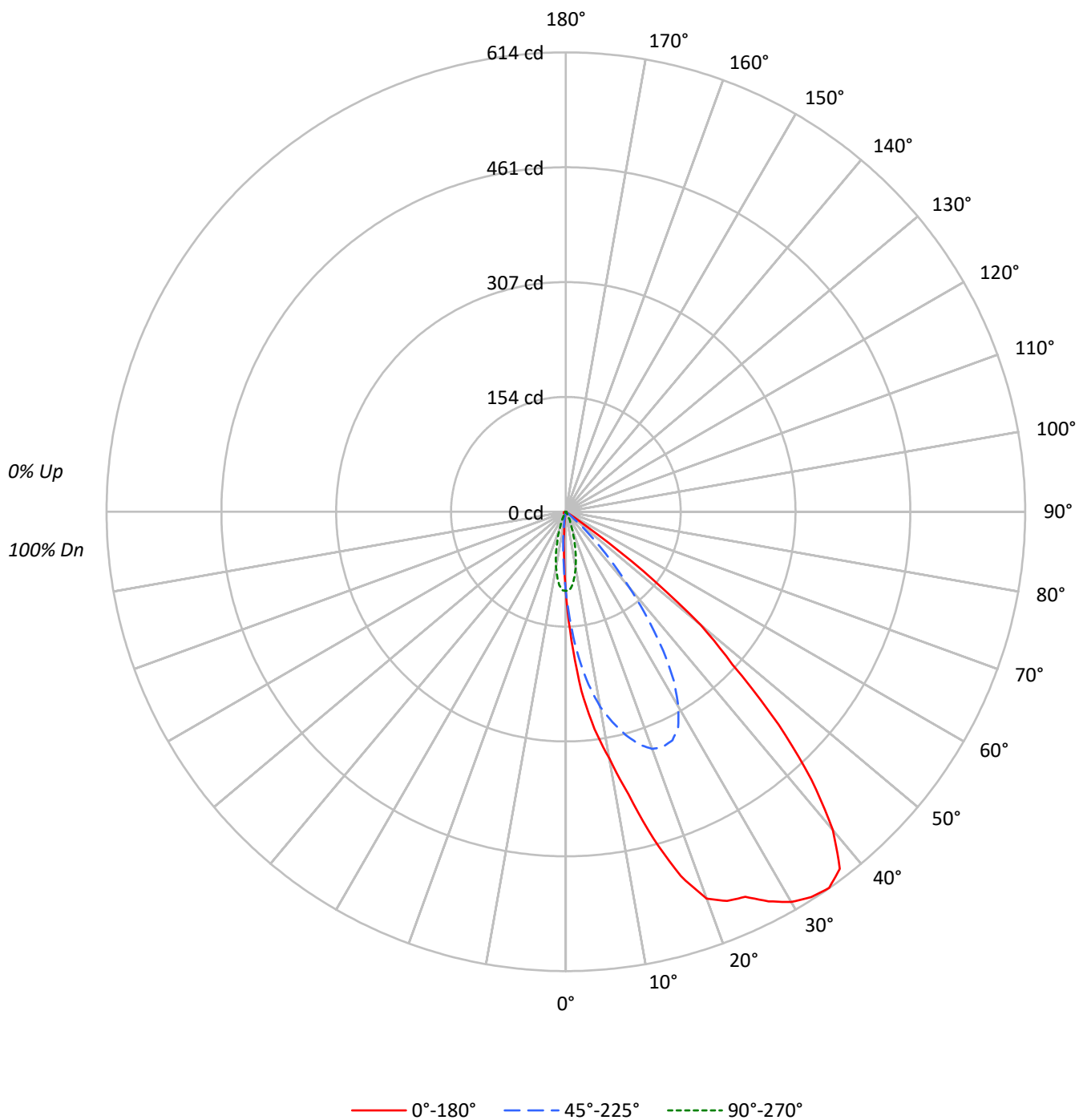
Lumens per Lamp: N/A
Luminaire Lumens: 278.0 lumens
Efficiency: N/A
Efficacy: 25.3 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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: P1343037

CATALOG NUMBER: P3A09R459827DE010 E3A301GPH

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	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	23200	23200	23200	23200	23200
5°	52872	42879	21704	8695	5943
10°	74503	58917	16767	1915	891
15°	102657	70103	10715	636	522
20°	128368	78710	5577	443	443
25°	137355	81513	2589	339	387
30°	152479	76113	1165	354	405
35°	164256	60686	375	375	509
40°	158926	37613	200	458	601
45°	124788	17738	217	589	713
50°	80202	2047	307	716	955
55°	12196	191	344	879	1147
60°	219	219	395	1009	1228
65°	259	259	467	1090	1453
70°	321	321	577	1218	1667
75°	169	424	763	1356	1779
80°	253	631	884	1515	2020
85°	0	503	1258	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 124788 cd/sqm

TEST NUMBER: P1343037

CATALOG NUMBER: P3A09R459827DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	4.2
10°-20°	41.9	15.1
20°-30°	73.5	26.4
30°-40°	83.5	30.0
40°-50°	54.1	19.4
50°-60°	10.6	3.8
60°-70°	1.3	0.5
70°-80°	1.1	0.4
80°-90°	0.5	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°	127.0	45.7
0°-40°	210.5	75.7
0°-60°	275.2	99.0
0°-90°	278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	278.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	106	106	106	106	106	
5°	240	195	99	40	27	26
15°	452	309	47	3	2	130
25°	568	337	11	1	2	266
35°	614	227	1	1	2	377
45°	402	57	1	2	2	303
55°	32	0	1	2	3	61
65°	0	0	1	2	3	0
75°	0	0	1	2	2	0
85°	0	0	0	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1343037

CATALOG NUMBER: P3A09R459827DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8
2.5°	171.8	171.3	172.0	167.4	167.2	163.7	162.7	158.8	153.4	150.9	144.8
5°	240.2	237.8	237.8	232.3	230.4	226.4	219.7	211.3	204.4	194.8	184.6
7.5°	292.9	292.5	292.5	287.6	282.9	277.4	268.3	258.8	247.6	233.0	218.1
10°	334.6	335.3	333.2	328.7	322.0	316.0	305.3	293.6	279.9	264.6	244.8
12.5°	387.1	382.0	380.4	370.4	361.8	350.1	337.3	324.1	307.1	287.8	265.5
15°	452.2	445.7	439.2	425.9	411.5	393.6	373.6	354.1	332.2	308.8	280.9
17.5°	510.3	510.3	501.7	480.8	462.2	435.7	408.7	382.7	356.9	326.0	291.1
20°	550.1	548.0	541.5	526.1	505.0	475.0	439.9	403.4	372.2	337.3	296.9
22.5°	563.1	562.6	562.9	553.8	536.8	505.7	462.7	419.7	380.6	340.1	294.1
25°	567.7	568.7	571.0	567.5	554.7	523.6	476.6	427.3	383.1	336.9	283.4
27.5°	587.0	585.2	587.7	585.4	571.0	533.8	479.4	425.5	377.6	325.0	264.3
30°	602.2	601.7	606.1	604.0	585.2	540.3	476.8	418.5	363.9	300.6	234.4
32.5°	610.8	611.0	612.2	603.6	575.7	526.1	464.3	404.3	338.0	268.8	195.3
35°	613.6	612.2	605.6	584.5	546.4	493.4	433.4	370.6	302.9	226.7	154.4
37.5°	601.5	594.3	577.5	545.9	501.7	452.2	393.8	328.0	254.8	179.0	115.1
40°	555.2	545.7	524.5	492.2	451.0	403.1	343.4	274.6	197.6	131.4	80.9
42.5°	485.9	481.0	458.9	430.8	395.9	347.6	286.0	216.2	146.2	90.7	51.6
45°	402.4	396.2	382.2	357.3	329.9	279.2	221.8	154.8	99.7	57.2	25.6
47.5°	301.8	302.2	292.7	273.9	246.9	204.6	151.8	103.9	62.5	29.5	5.8
50°	235.1	231.8	218.3	199.0	167.6	136.2	98.1	65.6	33.0	6.0	0.5
52.5°	130.2	132.3	125.1	118.8	102.5	81.4	57.9	33.2	7.0	0.7	0.5
55°	31.9	33.7	32.3	33.0	34.2	30.5	23.5	6.5	0.7	0.5	0.5
57.5°	0.7	0.7	0.7	0.7	1.2	1.6	1.6	0.5	0.5	0.5	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	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: P1343037

CATALOG NUMBER: P3A09R459827DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8
2.5°	141.8	137.4	129.3	105.1	84.4	68.1	58.4	57.4
5°	175.5	163.7	146.5	98.6	62.3	39.5	28.6	27.0
7.5°	202.3	185.5	159.0	87.9	42.5	20.2	11.2	9.3
10°	224.4	200.6	165.5	75.3	26.7	8.6	4.6	4.0
12.5°	239.5	210.9	166.7	61.4	15.3	4.2	3.0	2.8
15°	249.2	214.1	161.1	47.2	8.6	2.8	2.6	2.3
17.5°	253.2	211.3	150.4	34.2	4.6	2.1	2.1	2.1
20°	251.3	202.3	134.6	23.9	3.0	1.9	1.9	1.9
22.5°	242.5	186.7	114.9	16.0	2.1	1.6	1.6	1.6
25°	225.1	165.5	93.9	10.7	1.4	1.4	1.6	1.6
27.5°	199.0	139.5	71.8	7.2	1.2	1.4	1.6	1.6
30°	166.2	110.4	51.6	4.6	1.2	1.4	1.4	1.6
32.5°	132.1	80.4	33.9	2.8	0.9	1.4	1.6	1.9
35°	95.8	54.9	21.6	1.4	1.2	1.4	1.6	1.9
37.5°	67.2	35.8	12.6	0.9	1.2	1.4	1.9	1.9
40°	43.7	20.0	4.6	0.7	1.2	1.6	1.9	2.1
42.5°	22.8	7.0	0.9	0.7	1.2	1.6	2.1	2.3
45°	5.8	0.9	0.2	0.7	1.4	1.9	2.3	2.3
47.5°	0.7	0.2	0.2	0.9	1.4	2.1	2.3	2.6
50°	0.2	0.5	0.5	0.9	1.4	2.1	2.6	2.8
52.5°	0.5	0.5	0.5	0.9	1.6	2.1	2.8	3.0
55°	0.5	0.5	0.5	0.9	1.6	2.3	2.8	3.0
57.5°	0.5	0.5	0.5	0.9	1.6	2.3	2.8	2.8
60°	0.5	0.5	0.5	0.9	1.6	2.3	2.8	2.8
62.5°	0.5	0.5	0.7	0.9	1.6	2.1	2.8	2.8
65°	0.5	0.7	0.7	0.9	1.6	2.1	2.6	2.8
67.5°	0.5	0.5	0.7	0.9	1.6	2.1	2.6	2.8
70°	0.5	0.5	0.7	0.9	1.4	1.9	2.3	2.6
72.5°	0.5	0.5	0.7	0.9	1.4	1.9	2.1	2.3
75°	0.5	0.5	0.7	0.9	1.2	1.6	2.1	2.1
77.5°	0.5	0.5	0.7	0.7	1.2	1.4	1.9	1.9
80°	0.5	0.5	0.7	0.7	0.9	1.2	1.4	1.6
82.5°	0.5	0.5	0.5	0.7	0.7	0.9	1.2	1.2
85°	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7
87.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)