

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: P1335641

Luminaire Tested: P3A02R409030D2WDE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335641
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: P3A02R409030D2WDE010 E3A301GPH
Description: 3in Adjustable Dim to Warm LED luminaire with, R40 optic, 3000K CCT AND, 90CRI ,
E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

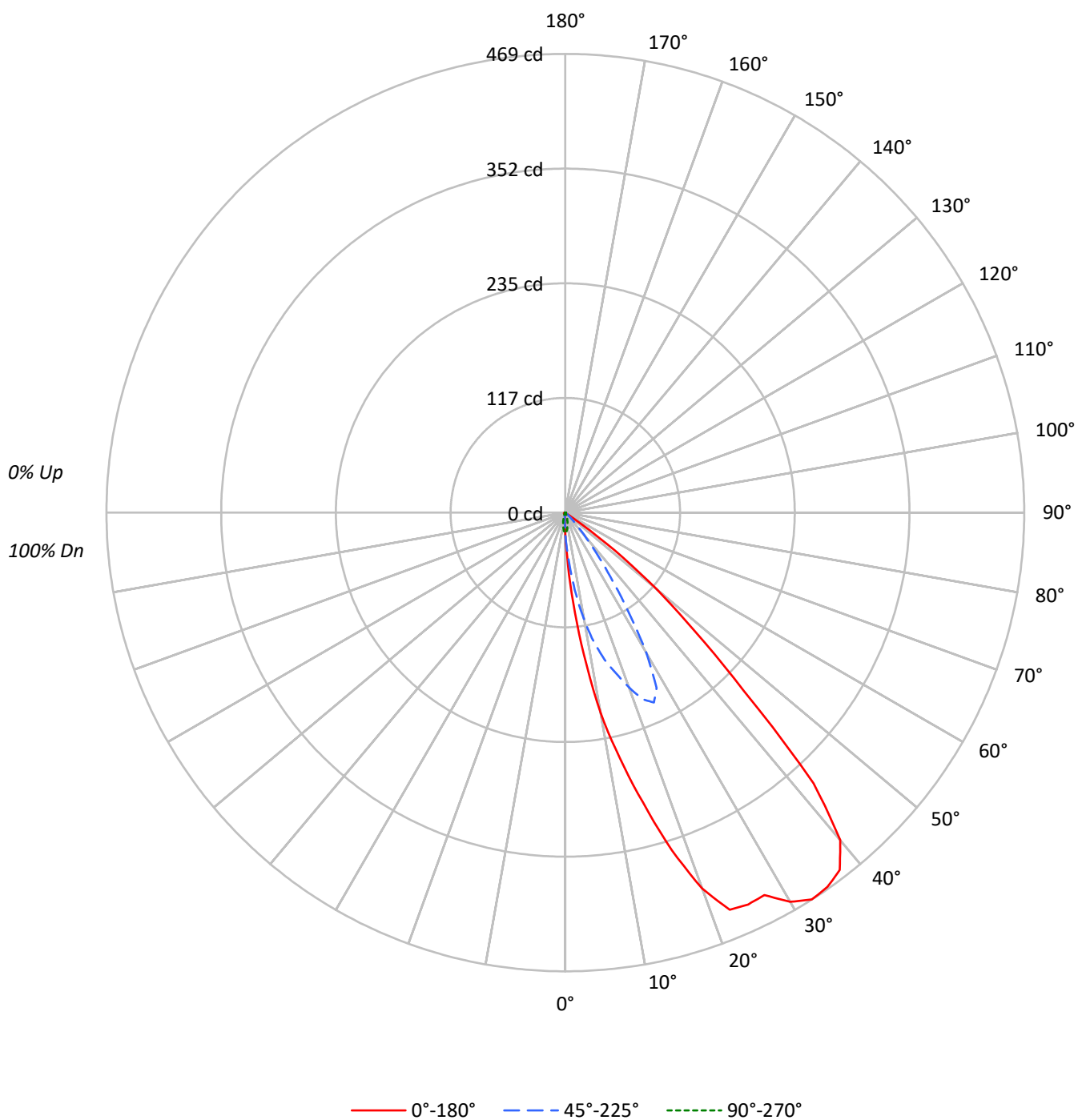
Lumens per Lamp: N/A
Luminaire Lumens: 172.9 lumens
Efficiency: N/A
Efficacy: 24.0 lumens/watt
Spacing Criteria (0/90/45): 2.52 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P1335641

CATALOG NUMBER: P3A02R409030D2WDE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1335641

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	94	90	95	91	88		92	89	86		89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82	79	76	74
4	92	83	77	71	90	82	76	71	80	74	70		78	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	80	70	63	57	79	69	62	57	67	61	57		66	60	56		64	60	56	54
7	75	64	57	52	74	63	56	52	62	56	51		61	55	51		59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55	50	46	44
9	66	54	47	42	65	54	47	42	53	46	42		52	46	42		51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4495	4495	4495	4495	4495
5°	20251	12899	4028	1541	1123
10°	46425	24938	2828	557	423
15°	69671	35392	1748	295	272
20°	95395	44361	1027	163	210
25°	106942	51826	532	145	169
30°	116322	41829	228	101	177
35°	125012	21415	80	161	241
40°	125063	8530	29	172	286
45°	79853	2853	93	279	403
50°	41449	341	136	341	512
55°	3594	38	153	459	612
60°	132	44	175	526	702
65°	156	52	311	519	778
70°	64	64	385	577	769
75°	85	85	339	593	847
80°	126	126	505	505	758
85°	0	252	1006	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 79853 cd/sqm

TEST NUMBER: P1335641

CATALOG NUMBER: P3A02R409030D2WDE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	2.3
10°-20°	23.4	13.5
20°-30°	51.3	29.7
30°-40°	58.4	33.8
40°-50°	30.8	17.8
50°-60°	3.6	2.1
60°-70°	0.6	0.4
70°-80°	0.5	0.3
80°-90°	0.2	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°	78.7	45.5
0°-40°	137.1	79.3
0°-60°	171.5	99.2
0°-90°	172.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	172.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	92	59	18	7	5	12
15°	307	156	8	1	1	90
25°	442	214	2	1	1	204
35°	467	80	0	1	1	289
45°	258	9	0	1	1	208
55°	9	0	0	1	2	29
65°	0	0	1	1	2	0
75°	0	0	0	1	1	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1335641

CATALOG NUMBER: P3A02R409030D2WDE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
2.5°	45.6	45.6	45.5	44.2	44.0	43.9	41.5	40.9	38.2	36.3	27.6
5°	92.0	89.9	89.8	87.4	83.5	78.2	74.9	69.5	64.2	58.6	34.1
7.5°	146.5	148.3	143.4	141.0	132.2	125.9	116.2	107.8	95.9	84.8	39.3
10°	208.5	205.4	200.6	195.8	186.3	175.0	160.7	145.6	128.5	112.0	42.3
12.5°	256.9	253.0	250.0	243.5	234.1	219.6	202.5	182.3	159.7	135.8	42.1
15°	306.9	303.0	296.4	290.5	276.6	260.4	241.8	215.2	187.4	155.9	39.0
17.5°	361.9	356.8	349.5	340.5	327.1	309.1	285.6	253.1	213.8	172.2	33.5
20°	408.8	405.8	398.4	387.9	374.8	357.2	330.0	294.0	246.1	190.1	26.6
22.5°	439.5	436.7	431.8	422.6	412.6	393.9	369.1	329.6	273.1	206.3	20.2
25°	442.0	440.8	439.5	436.5	430.5	417.2	392.9	350.3	289.9	214.2	14.9
27.5°	440.7	440.3	440.0	438.4	434.4	421.2	396.4	353.4	287.8	201.9	11.0
30°	459.4	458.1	457.4	452.1	441.7	421.4	388.9	336.9	255.7	165.2	7.9
32.5°	468.9	468.6	467.9	462.8	448.2	421.7	376.4	297.0	202.8	119.3	5.4
35°	467.0	465.6	462.9	453.4	433.1	399.9	335.7	237.2	146.4	80.0	3.5
37.5°	460.6	457.2	452.1	435.0	407.9	362.6	272.3	174.6	99.6	51.8	2.0
40°	436.9	432.4	424.3	403.4	367.9	298.9	201.3	118.0	65.4	29.8	0.6
42.5°	375.6	369.8	363.9	340.5	299.9	222.8	132.5	73.0	37.3	16.4	0.1
45°	257.5	250.2	242.1	225.2	192.6	135.0	78.8	41.1	19.3	9.2	0.1
47.5°	178.8	175.5	161.4	139.8	107.2	71.5	40.8	20.2	10.2	4.2	0.1
50°	121.5	117.7	101.3	80.4	57.0	34.2	18.7	10.1	4.5	1.0	0.1
52.5°	63.8	59.1	48.7	37.1	23.1	14.3	8.2	4.4	1.3	0.1	0.1
55°	9.4	8.6	7.0	5.7	5.1	3.9	2.3	1.0	0.1	0.1	0.3
57.5°	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.1	0.1	0.1	0.3
60°	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.3
67.5°	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.3	0.4
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3
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: P1335641

CATALOG NUMBER: P3A02R409030D2WDE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	20.5	20.5	20.5	20.5	20.5
2.5°	20.2	14.9	11.6	9.9	9.8
5°	18.3	10.7	7.0	5.4	5.1
7.5°	15.5	7.5	4.1	2.9	2.8
10°	12.7	5.1	2.5	2.0	1.9
12.5°	10.1	3.4	1.8	1.6	1.5
15°	7.7	2.2	1.3	1.2	1.2
17.5°	5.8	1.5	1.0	1.0	1.0
20°	4.4	1.0	0.7	0.9	0.9
22.5°	3.1	0.7	0.6	0.7	0.7
25°	2.2	0.6	0.6	0.7	0.7
27.5°	1.5	0.4	0.4	0.6	0.7
30°	0.9	0.3	0.4	0.6	0.7
32.5°	0.4	0.3	0.4	0.7	0.7
35°	0.3	0.4	0.6	0.7	0.9
37.5°	0.1	0.4	0.6	0.9	0.9
40°	0.1	0.4	0.6	0.9	1.0
42.5°	0.3	0.6	0.7	1.0	1.2
45°	0.3	0.6	0.9	1.2	1.3
47.5°	0.3	0.6	1.0	1.3	1.3
50°	0.4	0.7	1.0	1.3	1.5
52.5°	0.4	0.7	1.0	1.5	1.6
55°	0.4	0.7	1.2	1.5	1.6
57.5°	0.4	0.9	1.2	1.5	1.6
60°	0.4	0.7	1.2	1.5	1.6
62.5°	0.6	0.7	1.0	1.5	1.5
65°	0.6	0.7	1.0	1.5	1.5
67.5°	0.6	0.7	1.0	1.3	1.3
70°	0.6	0.7	0.9	1.2	1.2
72.5°	0.6	0.7	0.9	1.0	1.2
75°	0.4	0.6	0.7	0.9	1.0
77.5°	0.4	0.6	0.6	0.9	0.9
80°	0.4	0.4	0.4	0.6	0.6
82.5°	0.4	0.4	0.3	0.4	0.4
85°	0.4	0.3	0.3	0.3	0.3
87.5°	0.3	0.3	0.1	0.1	0.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)