

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: P1335706

Luminaire Tested: P3A02R409050DE010 E3A301H

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335706
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: P3A02R409050DE010 E3A301H
Description: 3in Adjustable LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , E3A301H TRIM
Light Source: -
Ballast/Driver: -

Summary

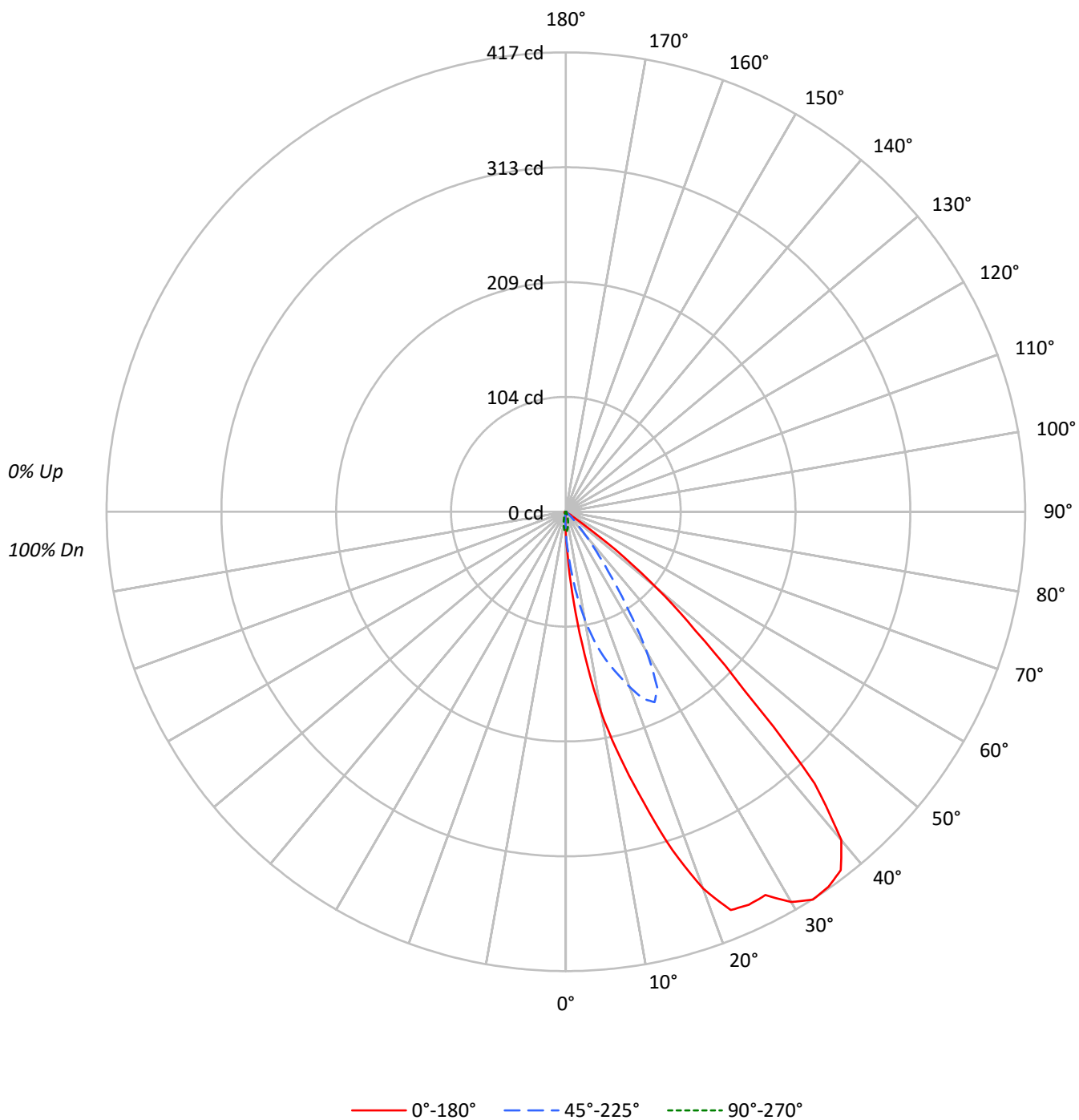
Lumens per Lamp: N/A
Luminaire Lumens: 154.0 lumens
Efficiency: N/A
Efficacy: 42.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1335706

CATALOG NUMBER: P3A02R409050DE010 E3A301H

Luminous Intensity Polar Plot



TEST NUMBER: P1335706

CATALOG NUMBER: P3A02R409050DE010 E3A301H

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	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	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3991	3991	3991	3991	3991
5°	18028	11490	3588	1365	1013
10°	41326	22200	2516	490	379
15°	62021	31487	1566	272	227
20°	84917	39483	910	163	187
25°	95207	46140	484	121	169
30°	103560	37246	203	101	177
35°	111280	19060	80	134	214
40°	111323	7614	29	143	258
45°	71077	2543	93	248	372
50°	36911	307	136	307	443
55°	3173	38	153	382	535
60°	132	44	175	439	614
65°	156	52	259	467	675
70°	64	64	321	513	641
75°	85	85	339	593	763
80°	126	126	505	505	631
85°	0	252	1006	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 71077 cd/sqm

TEST NUMBER: P1335706

CATALOG NUMBER: P3A02R409050DE010 E3A301H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	2.3
10°-20°	20.8	13.5
20°-30°	45.7	29.6
30°-40°	52.0	33.8
40°-50°	27.4	17.8
50°-60°	3.2	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°	70.0	45.5
0°-40°	122.1	79.2
0°-60°	152.7	99.2
0°-90°	154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	154.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	82	52	16	6	5	11
15°	273	139	7	1	1	80
25°	394	191	2	0	1	181
35°	416	71	0	0	1	258
45°	229	8	0	1	1	185
55°	8	0	0	1	1	26
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: P1335706

CATALOG NUMBER: P3A02R409050DE010 E3A301H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
2.5°	40.6	40.6	40.5	39.3	39.2	39.0	37.0	36.4	34.0	32.3	24.6
5°	81.9	80.0	79.9	77.8	74.3	69.6	66.6	61.8	57.1	52.2	30.3
7.5°	130.4	132.0	127.7	125.5	117.7	112.1	103.5	95.9	85.4	75.5	35.0
10°	185.6	182.9	178.6	174.3	165.8	155.8	143.0	129.6	114.4	99.7	37.6
12.5°	228.7	225.2	222.6	216.7	208.4	195.5	180.3	162.3	142.1	120.9	37.5
15°	273.2	269.7	263.8	258.6	246.3	231.8	215.3	191.6	166.9	138.7	34.8
17.5°	322.1	317.6	311.1	303.1	291.2	275.2	254.2	225.3	190.3	153.3	29.8
20°	363.9	361.2	354.7	345.3	333.6	318.0	293.8	261.7	219.1	169.2	23.7
22.5°	391.3	388.8	384.4	376.2	367.3	350.6	328.5	293.4	243.1	183.7	18.0
25°	393.5	392.4	391.3	388.5	383.2	371.3	349.7	311.9	258.1	190.7	13.3
27.5°	392.3	391.9	391.6	390.2	386.7	375.0	352.9	314.6	256.2	179.7	9.8
30°	409.0	407.8	407.1	402.4	393.2	375.1	346.2	299.9	227.6	147.1	7.0
32.5°	417.4	417.2	416.5	412.0	398.9	375.4	335.0	264.4	180.5	106.2	4.8
35°	415.7	414.4	412.1	403.6	385.5	356.0	298.8	211.1	130.3	71.2	3.1
37.5°	410.0	407.0	402.4	387.2	363.1	322.8	242.4	155.4	88.6	46.1	1.8
40°	388.9	384.9	377.7	359.1	327.5	266.0	179.2	105.0	58.2	26.6	0.5
42.5°	334.4	329.2	324.0	303.1	267.0	198.4	117.9	64.9	33.2	14.6	0.1
45°	229.2	222.7	215.5	200.4	171.4	120.1	70.2	36.6	17.2	8.2	0.1
47.5°	159.2	156.2	143.7	124.4	95.4	63.6	36.3	18.0	9.1	3.8	0.1
50°	108.2	104.8	90.2	71.6	50.8	30.5	16.7	9.0	4.0	0.9	0.1
52.5°	56.7	52.6	43.3	33.1	20.6	12.8	7.3	3.9	1.2	0.1	0.1
55°	8.3	7.7	6.2	5.1	4.6	3.5	2.1	0.9	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: P1335706

CATALOG NUMBER: P3A02R409050DE010 E3A301H

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	18.2	18.2	18.2	18.2	18.2
2.5°	18.0	13.3	10.3	8.9	8.7
5°	16.3	9.5	6.2	4.8	4.6
7.5°	13.8	6.6	3.6	2.6	2.5
10°	11.3	4.6	2.2	1.8	1.7
12.5°	9.0	3.0	1.6	1.4	1.3
15°	6.9	2.0	1.2	1.0	1.0
17.5°	5.2	1.3	0.9	0.9	0.9
20°	3.9	0.9	0.7	0.8	0.8
22.5°	2.7	0.7	0.5	0.7	0.7
25°	2.0	0.5	0.5	0.7	0.7
27.5°	1.3	0.4	0.4	0.5	0.7
30°	0.8	0.3	0.4	0.5	0.7
32.5°	0.4	0.3	0.4	0.7	0.7
35°	0.3	0.4	0.5	0.7	0.8
37.5°	0.1	0.4	0.5	0.8	0.8
40°	0.1	0.4	0.5	0.8	0.9
42.5°	0.3	0.5	0.7	0.9	1.0
45°	0.3	0.5	0.8	1.0	1.2
47.5°	0.3	0.5	0.9	1.2	1.2
50°	0.4	0.7	0.9	1.2	1.3
52.5°	0.4	0.7	0.9	1.3	1.4
55°	0.4	0.7	1.0	1.3	1.4
57.5°	0.4	0.8	1.0	1.3	1.4
60°	0.4	0.7	1.0	1.3	1.4
62.5°	0.5	0.7	0.9	1.3	1.3
65°	0.5	0.7	0.9	1.3	1.3
67.5°	0.5	0.7	0.9	1.2	1.2
70°	0.5	0.7	0.8	1.0	1.0
72.5°	0.5	0.7	0.8	0.9	1.0
75°	0.4	0.5	0.7	0.8	0.9
77.5°	0.4	0.5	0.5	0.8	0.8
80°	0.4	0.4	0.4	0.5	0.5
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)