

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: P1339449

Luminaire Tested: P3A05R459730DE010 E3A451GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R459730DE010 E3A451GPH
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , E3A451GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

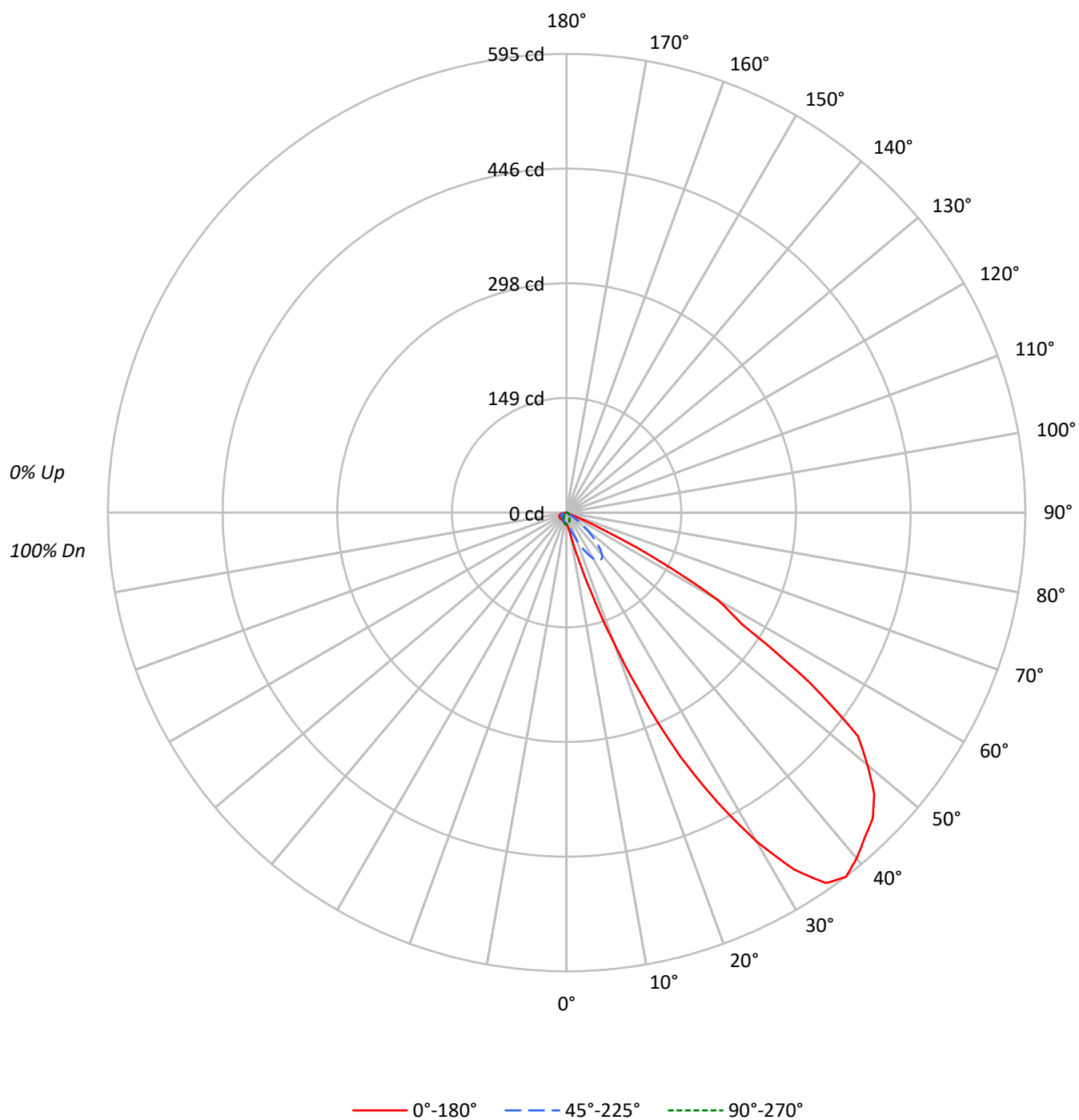
Lumens per Lamp: N/A
Luminaire Lumens: 266.0 lumens
Efficiency: N/A
Efficacy: 36.9 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24
10	49	35	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3377	3377	3377	3377	3377
5°	4006	3720	3346	3104	3104
10°	6413	4364	3140	2939	2939
15°	15959	5834	2838	2747	2838
20°	42050	8727	2450	2614	2777
25°	84440	12920	2129	2444	2710
30°	124500	17319	1722	2405	2785
35°	157028	20291	1472	2356	2891
40°	167542	20524	1317	2462	3092
45°	174065	17118	1240	2667	3349
50°	173811	11906	1194	2866	3753
55°	147722	5276	1262	3211	4129
60°	99290	1053	1272	3552	4736
65°	26358	467	1245	3891	5344
70°	705	577	1282	4231	6091
75°	593	593	1271	4490	6863
80°	505	884	1389	4672	7829
85°	503	1006	2264	5032	7799

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 178550 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.6
10°-20°	7.5	2.8
20°-30°	30.9	11.6
30°-40°	65.2	24.5
40°-50°	80.5	30.2
50°-60°	60.3	22.7
60°-70°	15.5	5.8
70°-80°	3.2	1.2
80°-90°	1.3	0.5
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°	40.0	15.0
0°-40°	105.2	39.5
0°-60°	246.0	92.5
0°-90°	266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	266.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	18	17	15	14	14	2
15°	70	26	12	12	12	26
25°	349	53	9	10	11	163
35°	587	76	6	9	11	357
45°	561	55	4	9	11	430
55°	386	14	3	8	11	334
65°	51	1	2	8	10	73
75°	1	1	2	5	8	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
2.5°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.0	15.8	15.4	14.9
5°	18.2	18.0	18.0	18.0	17.8	17.6	17.6	16.9	16.0	15.2	14.5
7.5°	21.5	21.5	21.3	20.9	20.7	20.2	19.8	18.0	16.0	14.7	13.8
10°	28.8	28.4	27.7	27.3	26.2	24.6	23.5	19.6	15.8	14.1	13.4
12.5°	43.1	44.0	41.8	39.6	36.5	33.6	30.1	22.2	15.8	13.4	12.7
15°	70.3	71.9	67.7	63.3	55.8	48.8	42.2	25.7	15.4	12.5	11.9
17.5°	114.9	116.9	109.9	99.6	87.9	73.8	61.8	30.6	14.9	11.6	11.2
20°	180.2	180.0	166.4	153.4	131.0	110.3	87.7	37.4	14.3	10.5	10.5
22.5°	260.5	261.3	244.6	221.3	189.5	156.3	120.2	45.3	13.4	9.7	9.9
25°	349.0	341.6	321.8	293.4	252.8	206.8	159.3	53.4	12.5	8.8	9.2
27.5°	422.9	415.6	393.0	359.4	315.6	261.1	199.1	61.5	11.4	7.9	8.6
30°	491.7	482.4	455.2	417.2	365.1	306.2	236.5	68.4	10.1	6.8	7.9
32.5°	548.4	540.0	509.0	464.9	408.1	344.8	268.1	73.6	8.8	6.2	7.5
35°	586.6	578.0	549.5	500.9	439.1	373.0	293.9	75.8	7.7	5.5	7.3
37.5°	595.4	590.8	570.4	524.9	460.5	391.0	310.3	75.2	6.4	5.1	6.8
40°	585.3	586.4	576.7	538.9	471.9	398.7	317.2	71.7	5.3	4.6	6.6
42.5°	572.3	575.2	574.5	544.6	476.7	399.1	314.3	64.6	4.2	4.2	6.4
45°	561.3	564.2	568.2	542.2	473.4	393.4	305.3	55.2	3.1	4.0	6.4
47.5°	541.3	544.4	550.1	522.9	456.7	378.7	289.0	44.8	2.2	3.7	6.2
50°	509.5	511.0	509.5	478.9	424.6	355.0	262.6	34.9	1.5	3.5	6.2
52.5°	476.7	473.6	460.9	422.2	373.6	317.4	229.5	24.8	1.1	3.3	5.9
55°	386.4	381.6	372.1	348.4	320.7	271.2	185.5	13.8	1.1	3.3	5.7
57.5°	269.2	271.9	275.2	270.3	257.6	213.6	140.9	6.2	1.1	3.1	5.7
60°	226.4	224.2	224.4	221.3	200.2	155.8	96.9	2.4	1.1	2.9	5.5
62.5°	135.2	136.7	139.6	140.2	119.3	87.0	50.8	1.1	1.1	2.6	5.3
65°	50.8	53.2	46.6	40.4	32.1	23.5	11.9	0.9	1.3	2.4	4.8
67.5°	1.5	1.8	2.2	2.0	2.0	1.8	1.3	0.9	1.3	2.2	4.6
70°	1.1	1.1	1.1	1.1	1.1	0.9	0.9	0.9	1.1	2.0	4.2
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.8	3.7
75°	0.7	0.9	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.5	3.1
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.3	2.6
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.9	1.1	2.2
82.5°	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.9	0.9	1.8
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.7	0.9	1.1
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4	0.7	0.7	0.7
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):

	135°	157.5°	180°
0°	15.4	15.4	15.4
2.5°	14.5	14.5	14.5
5°	14.1	14.1	14.1
7.5°	13.6	13.6	13.6
10°	13.2	13.2	13.2
12.5°	12.7	12.7	13.0
15°	12.1	12.5	12.5
17.5°	11.6	12.1	12.3
20°	11.2	11.6	11.9
22.5°	10.5	11.2	11.6
25°	10.1	11.0	11.2
27.5°	9.7	10.8	11.2
30°	9.5	10.5	11.0
32.5°	9.0	10.3	10.8
35°	8.8	10.3	10.8
37.5°	8.8	10.1	10.8
40°	8.6	10.1	10.8
42.5°	8.6	10.1	10.8
45°	8.6	10.1	10.8
47.5°	8.4	10.1	11.0
50°	8.4	10.3	11.0
52.5°	8.4	10.3	11.0
55°	8.4	10.3	10.8
57.5°	8.1	10.1	10.8
60°	8.1	10.1	10.8
62.5°	7.7	9.9	10.5
65°	7.5	9.7	10.3
67.5°	7.0	9.5	9.9
70°	6.6	8.8	9.5
72.5°	5.9	8.4	9.0
75°	5.3	7.7	8.1
77.5°	4.6	6.8	7.3
80°	3.7	5.7	6.2
82.5°	2.9	4.4	4.6
85°	2.0	2.9	3.1
87.5°	0.9	1.3	1.5
90°	0.0	0.0	0.0

(END OF REPORT)