

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: P1335983

Luminaire Tested: P3A02R459030D2WDE010 E3A451GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335983
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: P3A02R459030D2WDE010 E3A451GPH
Description: 3in Adjustable Dim to Warm LED luminaire with, R45 optic, 3000K CCT AND, 90CRI ,
E3A451GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

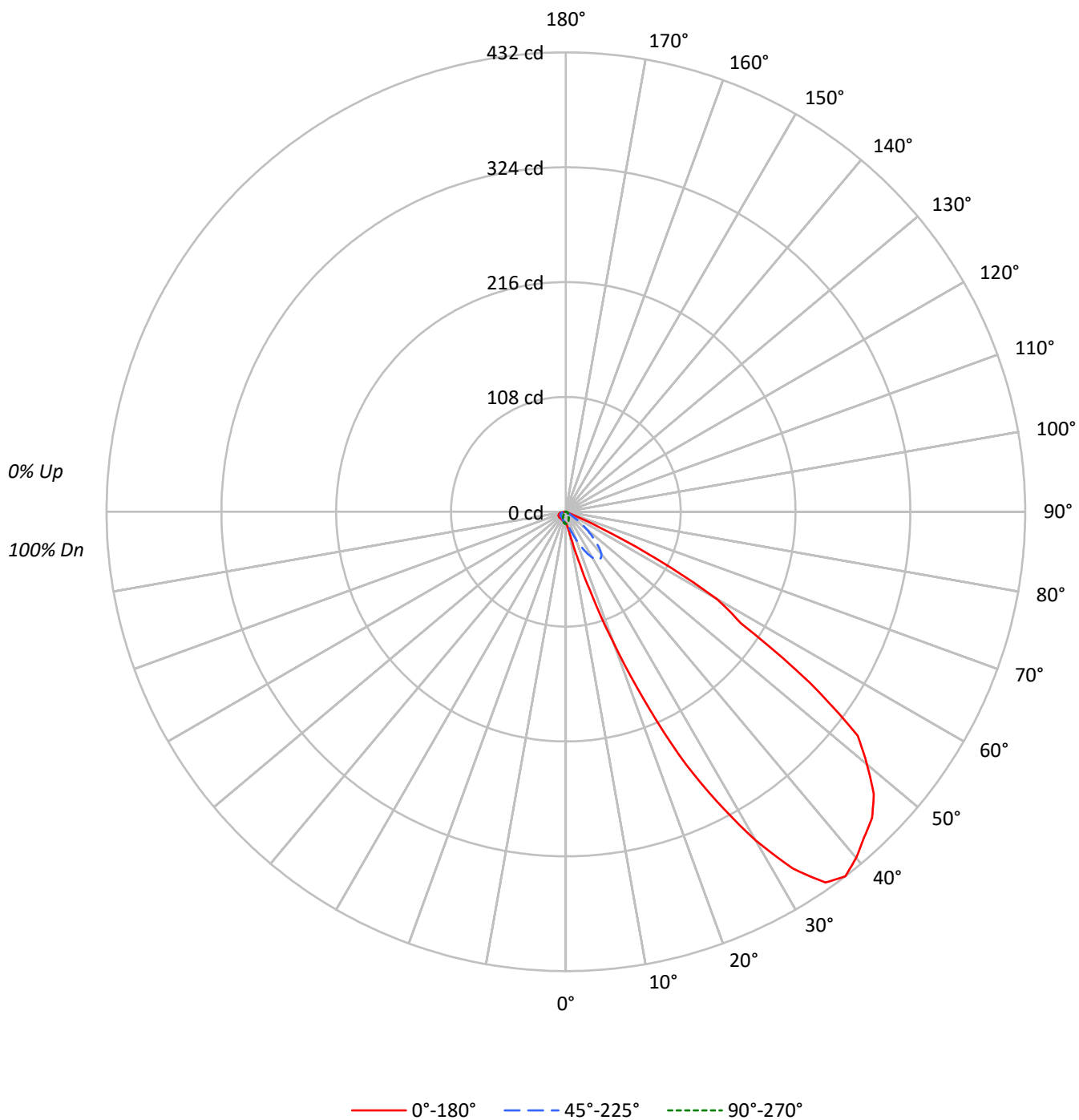
Lumens per Lamp: N/A
Luminaire Lumens: 193.0 lumens
Efficiency: N/A
Efficacy: 26.8 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			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	110	106	102	99	107	104	100	97	99	97	94		96	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81	78	75	73
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	58	53	51
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44	37	33	31
8	58	44	35	29	56	43	35	29	42	34	29		40	33	28		39	33	28	26
9	53	39	31	25	52	39	30	25	38	30	25		36	29	25		35	29	24	22
10	49	36	27	22	48	35	27	22	34	27	21		33	26	21		32	26	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2456	2456	2456	2456	2456
5°	2906	2707	2421	2245	2245
10°	4654	3162	2271	2138	2138
15°	11578	4245	2066	1998	2066
20°	30523	6324	1797	1890	2007
25°	61262	9388	1548	1766	1960
30°	90318	12559	1241	1747	2026
35°	113930	14723	1071	1713	2088
40°	121571	14885	945	1775	2233
45°	126308	12404	899	1923	2419
50°	126120	8665	887	2081	2729
55°	107198	3823	918	2332	2982
60°	72056	789	921	2588	3421
65°	19094	311	934	2802	3891
70°	513	385	898	3077	4424
75°	424	424	932	3219	4999
80°	379	631	1010	3410	5683
85°	503	755	1510	3522	5535

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 129571 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.6
10°-20°	5.4	2.8
20°-30°	22.5	11.6
30°-40°	47.3	24.5
40°-50°	58.4	30.2
50°-60°	43.8	22.7
60°-70°	11.3	5.8
70°-80°	2.3	1.2
80°-90°	0.9	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°	29.0	15.0
0°-40°	76.3	39.5
0°-60°	178.5	92.5
0°-90°	193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	193.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	13	12	11	10	10	1
15°	51	19	9	9	9	19
25°	253	39	6	7	8	118
35°	426	55	4	6	8	259
45°	407	40	3	6	8	312
55°	280	10	2	6	8	242
65°	37	1	2	5	8	53
75°	0	0	1	4	6	1
85°	0	0	1	1	2	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°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
2.5°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.6	11.5	11.2	10.8
5°	13.2	13.1	13.1	13.1	12.9	12.8	12.8	12.3	11.6	11.0	10.5
7.5°	15.6	15.6	15.5	15.1	15.0	14.7	14.4	13.1	11.6	10.7	10.0
10°	20.9	20.6	20.1	19.8	19.0	17.9	17.1	14.2	11.5	10.2	9.7
12.5°	31.3	31.9	30.3	28.7	26.5	24.4	21.8	16.1	11.5	9.7	9.2
15°	51.0	52.1	49.1	45.9	40.5	35.4	30.6	18.7	11.2	9.1	8.6
17.5°	83.4	84.8	79.7	72.2	63.8	53.6	44.8	22.2	10.8	8.5	8.1
20°	130.8	130.6	120.7	111.3	95.0	80.1	63.6	27.1	10.4	7.7	7.7
22.5°	189.0	189.6	177.5	160.6	137.5	113.4	87.2	32.9	9.7	7.0	7.2
25°	253.2	247.8	233.5	212.9	183.4	150.1	115.6	38.8	9.1	6.4	6.7
27.5°	306.8	301.6	285.1	260.7	229.0	189.5	144.5	44.7	8.3	5.7	6.2
30°	356.7	350.0	330.3	302.7	264.9	222.1	171.6	49.6	7.3	4.9	5.7
32.5°	397.9	391.8	369.3	337.3	296.1	250.2	194.6	53.4	6.4	4.5	5.4
35°	425.6	419.4	398.7	363.4	318.6	270.6	213.2	55.0	5.6	4.0	5.3
37.5°	432.0	428.7	413.8	380.8	334.1	283.7	225.2	54.5	4.6	3.7	4.9
40°	424.7	425.5	418.5	391.0	342.4	289.3	230.1	52.0	3.8	3.3	4.8
42.5°	415.3	417.3	416.9	395.2	345.9	289.6	228.0	46.9	3.0	3.0	4.6
45°	407.3	409.4	412.2	393.4	343.5	285.5	221.5	40.0	2.2	2.9	4.6
47.5°	392.8	395.0	399.2	379.4	331.4	274.8	209.7	32.5	1.6	2.7	4.5
50°	369.7	370.8	369.7	347.5	308.1	257.5	190.6	25.4	1.1	2.6	4.5
52.5°	345.9	343.7	334.4	306.3	271.1	230.3	166.5	18.0	0.8	2.4	4.3
55°	280.4	276.8	270.0	252.8	232.7	196.8	134.6	10.0	0.8	2.4	4.1
57.5°	195.4	197.3	199.7	196.1	186.9	155.0	102.2	4.5	0.8	2.2	4.1
60°	164.3	162.7	162.8	160.6	145.3	113.1	70.3	1.8	0.8	2.1	4.0
62.5°	98.1	99.2	101.3	101.7	86.6	63.2	36.8	0.8	0.8	1.9	3.8
65°	36.8	38.6	33.8	29.3	23.3	17.1	8.6	0.6	1.0	1.8	3.5
67.5°	1.1	1.3	1.6	1.4	1.4	1.3	1.0	0.6	1.0	1.6	3.3
70°	0.8	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.8	1.4	3.0
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.8	1.3	2.7
75°	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.8	1.1	2.2
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	1.0	1.9
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.6	0.8	1.6
82.5°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.6	0.6	1.3
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.6	0.8
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.3	0.5	0.5	0.5
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°	11.2	11.2	11.2
2.5°	10.5	10.5	10.5
5°	10.2	10.2	10.2
7.5°	9.9	9.9	9.9
10°	9.6	9.6	9.6
12.5°	9.2	9.2	9.4
15°	8.8	9.1	9.1
17.5°	8.5	8.8	8.9
20°	8.1	8.5	8.6
22.5°	7.7	8.1	8.5
25°	7.3	8.0	8.1
27.5°	7.0	7.8	8.1
30°	6.9	7.7	8.0
32.5°	6.5	7.5	7.8
35°	6.4	7.5	7.8
37.5°	6.4	7.3	7.8
40°	6.2	7.3	7.8
42.5°	6.2	7.3	7.8
45°	6.2	7.3	7.8
47.5°	6.1	7.3	8.0
50°	6.1	7.5	8.0
52.5°	6.1	7.5	8.0
55°	6.1	7.5	7.8
57.5°	5.9	7.3	7.8
60°	5.9	7.3	7.8
62.5°	5.6	7.2	7.7
65°	5.4	7.0	7.5
67.5°	5.1	6.9	7.2
70°	4.8	6.4	6.9
72.5°	4.3	6.1	6.5
75°	3.8	5.6	5.9
77.5°	3.3	4.9	5.3
80°	2.7	4.1	4.5
82.5°	2.1	3.2	3.3
85°	1.4	2.1	2.2
87.5°	0.6	1.0	1.1
90°	0.0	0.0	0.0

(END OF REPORT)