

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: P1339465

Luminaire Tested: P3A05R459735DE010 E3A451GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339465
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: P3A05R459735DE010 E3A451GPH
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , E3A451GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

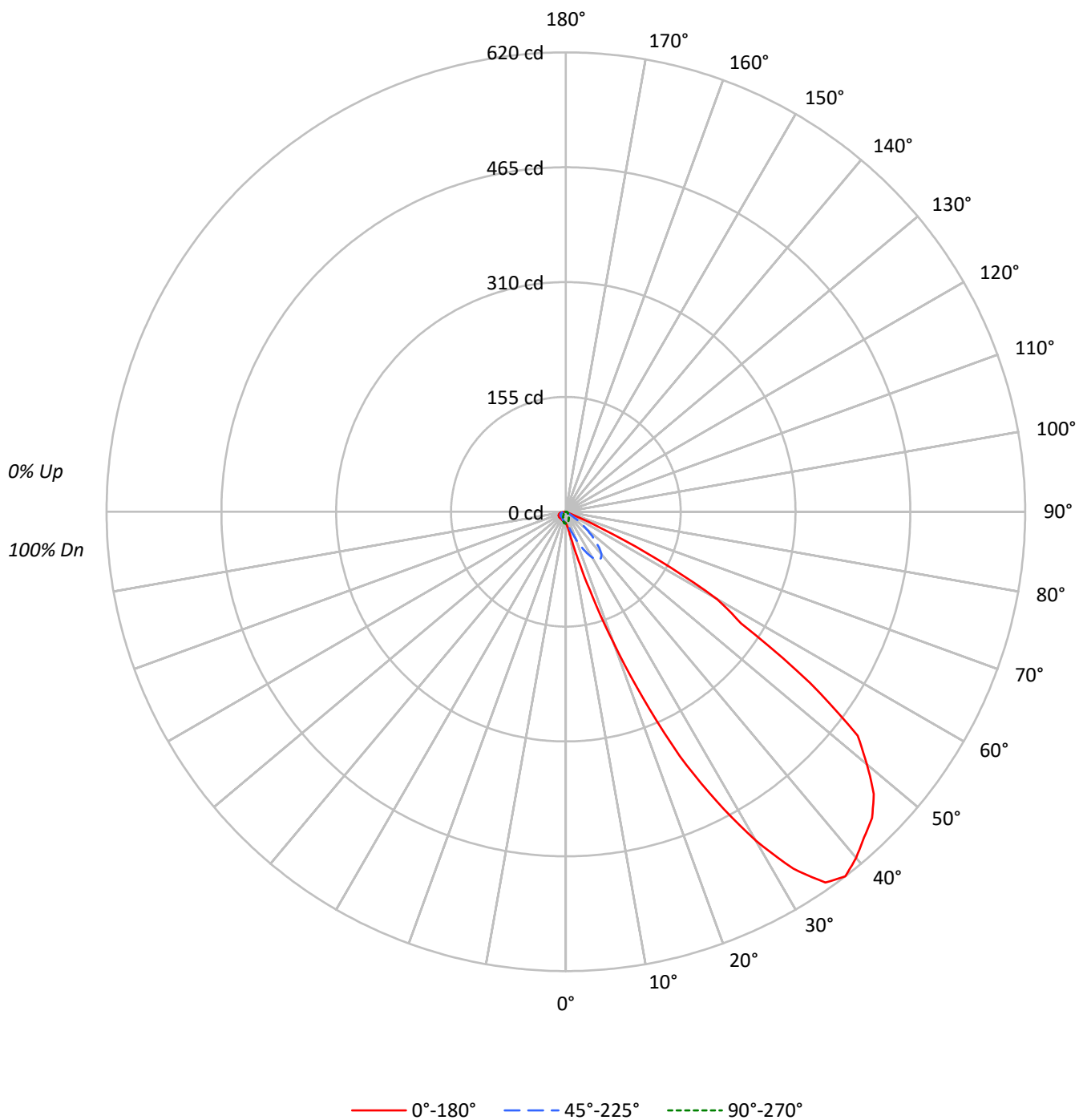
Lumens per Lamp: N/A
Luminaire Lumens: 277.0 lumens
Efficiency: N/A
Efficacy: 38.5 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.83 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3508	3508	3508	3508	3508
5°	4182	3874	3478	3214	3214
10°	6680	4542	3251	3050	3050
15°	16618	6084	2951	2860	2951
20°	43800	9077	2567	2730	2894
25°	87949	13452	2226	2540	2831
30°	129640	18028	1798	2481	2887
35°	163533	21148	1526	2463	2998
40°	174470	21354	1374	2548	3206
45°	181290	17800	1271	2760	3473
50°	180975	12418	1262	2968	3889
55°	153839	5505	1300	3326	4282
60°	103369	1096	1316	3728	4912
65°	27448	467	1297	4047	5604
70°	705	577	1346	4424	6283
75°	593	593	1356	4660	7202
80°	631	884	1389	4925	8082
85°	503	1258	2264	5284	8051

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 185950 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.6
10°-20°	7.8	2.8
20°-30°	32.2	11.6
30°-40°	67.9	24.5
40°-50°	83.8	30.2
50°-60°	62.8	22.7
60°-70°	16.2	5.8
70°-80°	3.3	1.2
80°-90°	1.4	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°	41.6	15.0
0°-40°	109.5	39.5
0°-60°	256.1	92.5
0°-90°	277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	277.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	19	18	16	15	15	2
15°	73	27	13	13	13	27
25°	364	56	9	10	12	169
35°	611	79	6	9	11	372
45°	585	57	4	9	11	447
55°	402	14	3	9	11	347
65°	53	1	2	8	11	76
75°	1	1	2	6	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°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
2.5°	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.7	16.5	16.0	15.6
5°	19.0	18.8	18.8	18.8	18.5	18.3	18.3	17.6	16.7	15.8	15.1
7.5°	22.4	22.4	22.2	21.7	21.5	21.1	20.6	18.8	16.7	15.3	14.4
10°	30.0	29.5	28.8	28.4	27.2	25.6	24.5	20.4	16.5	14.6	14.0
12.5°	44.9	45.8	43.5	41.2	38.0	35.0	31.4	23.1	16.5	14.0	13.3
15°	73.2	74.8	70.5	65.9	58.1	50.8	43.9	26.8	16.0	13.0	12.4
17.5°	119.7	121.8	114.4	103.7	91.6	76.9	64.3	31.8	15.6	12.1	11.7
20°	187.7	187.5	173.3	159.8	136.4	114.9	91.3	38.9	14.9	11.0	11.0
22.5°	271.2	272.1	254.7	230.5	197.3	162.7	125.2	47.1	14.0	10.1	10.3
25°	363.5	355.7	335.1	305.6	263.2	215.4	165.9	55.6	13.0	9.2	9.6
27.5°	440.4	432.8	409.2	374.2	328.7	271.9	207.4	64.1	11.9	8.2	8.9
30°	512.0	502.4	474.0	434.4	380.2	318.8	246.3	71.2	10.5	7.1	8.2
32.5°	571.1	562.4	530.1	484.1	425.0	359.1	279.2	76.7	9.2	6.4	7.8
35°	610.9	602.0	572.2	521.6	457.3	388.4	306.0	79.0	8.0	5.7	7.6
37.5°	620.0	615.2	593.9	546.6	479.5	407.2	323.2	78.3	6.6	5.3	7.1
40°	609.5	610.6	600.6	561.2	491.4	415.2	330.3	74.6	5.5	4.8	6.9
42.5°	596.0	599.0	598.3	567.2	496.4	415.6	327.3	67.3	4.3	4.3	6.6
45°	584.6	587.5	591.7	564.6	493.0	409.7	317.9	57.4	3.2	4.1	6.6
47.5°	563.7	566.9	572.9	544.5	475.6	394.4	301.0	46.7	2.3	3.9	6.4
50°	530.5	532.1	530.5	498.7	442.2	369.6	273.5	36.4	1.6	3.7	6.4
52.5°	496.4	493.2	480.0	439.7	389.1	330.5	238.9	25.9	1.1	3.4	6.2
55°	402.4	397.3	387.5	362.8	333.9	282.4	193.2	14.4	1.1	3.4	6.0
57.5°	280.4	283.1	286.6	281.5	268.2	222.5	146.7	6.4	1.1	3.2	6.0
60°	235.7	233.5	233.7	230.5	208.5	162.3	100.9	2.5	1.1	3.0	5.7
62.5°	140.8	142.4	145.3	146.0	124.3	90.6	52.9	1.1	1.1	2.7	5.5
65°	52.9	55.4	48.5	42.1	33.4	24.5	12.4	0.9	1.4	2.5	5.0
67.5°	1.6	1.8	2.3	2.1	2.1	1.8	1.4	0.9	1.4	2.3	4.8
70°	1.1	1.1	1.1	1.1	1.1	0.9	0.9	0.9	1.1	2.1	4.3
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.8	3.9
75°	0.7	0.9	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.6	3.2
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.4	2.7
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.9	1.1	2.3
82.5°	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.9	0.9	1.8
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.7	0.9	1.1
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.5	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°	16.0	16.0	16.0
2.5°	15.1	15.1	15.1
5°	14.6	14.6	14.6
7.5°	14.2	14.2	14.2
10°	13.7	13.7	13.7
12.5°	13.3	13.3	13.5
15°	12.6	13.0	13.0
17.5°	12.1	12.6	12.8
20°	11.7	12.1	12.4
22.5°	11.0	11.7	12.1
25°	10.5	11.4	11.7
27.5°	10.1	11.2	11.7
30°	9.8	11.0	11.4
32.5°	9.4	10.8	11.2
35°	9.2	10.8	11.2
37.5°	9.2	10.5	11.2
40°	8.9	10.5	11.2
42.5°	8.9	10.5	11.2
45°	8.9	10.5	11.2
47.5°	8.7	10.5	11.4
50°	8.7	10.8	11.4
52.5°	8.7	10.8	11.4
55°	8.7	10.8	11.2
57.5°	8.5	10.5	11.2
60°	8.5	10.5	11.2
62.5°	8.0	10.3	11.0
65°	7.8	10.1	10.8
67.5°	7.3	9.8	10.3
70°	6.9	9.2	9.8
72.5°	6.2	8.7	9.4
75°	5.5	8.0	8.5
77.5°	4.8	7.1	7.6
80°	3.9	6.0	6.4
82.5°	3.0	4.6	4.8
85°	2.1	3.0	3.2
87.5°	0.9	1.4	1.6
90°	0.0	0.0	0.0

(END OF REPORT)