

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: P1339433

Luminaire Tested: P3A05R459727DE010 E3A451GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339433
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: P3A05R459727DE010 E3A451GPH
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , E3A451GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

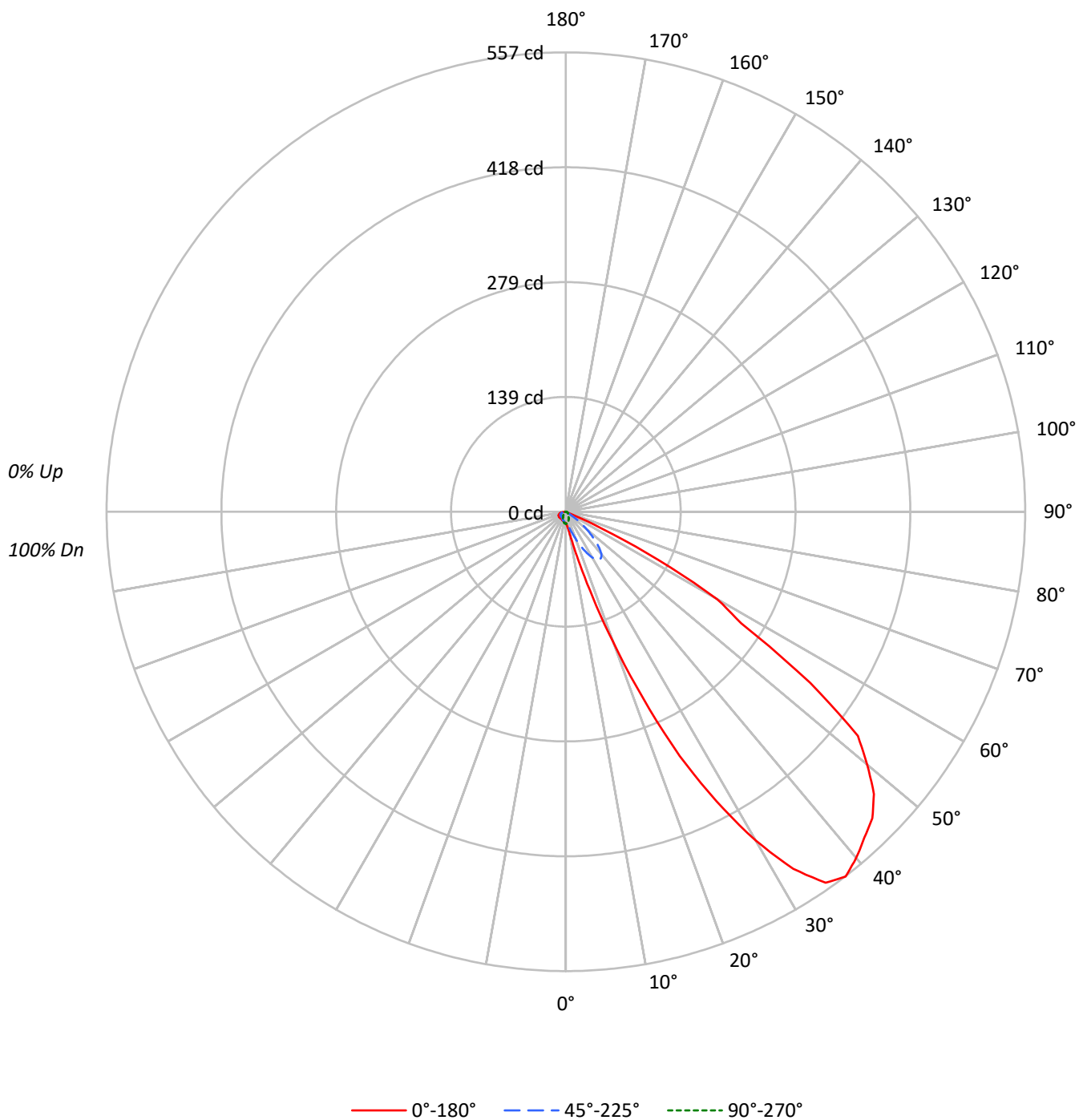
Lumens per Lamp: N/A
Luminaire Lumens: 249.0 lumens
Efficiency: N/A
Efficacy: 34.6 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.83 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			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	40	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°	3158	3158	3158	3158	3158
5°	3764	3478	3126	2906	2906
10°	6012	4075	2939	2739	2739
15°	14938	5471	2656	2565	2656
20°	39367	8167	2310	2450	2590
25°	79045	12097	1984	2299	2540
30°	116524	16205	1621	2228	2608
35°	146990	19006	1365	2195	2704
40°	156837	19207	1231	2290	2891
45°	162963	16002	1147	2481	3132
50°	162690	11155	1126	2661	3514
55°	138279	4970	1185	2982	3861
60°	92931	1009	1184	3333	4429
65°	24646	415	1193	3632	5033
70°	641	513	1218	3975	5642
75°	508	508	1186	4151	6439
80°	505	758	1263	4420	7324
85°	503	1006	2013	4780	7296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 167157 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.6
10°-20°	7.0	2.8
20°-30°	29.0	11.6
30°-40°	61.0	24.5
40°-50°	75.3	30.3
50°-60°	56.5	22.7
60°-70°	14.5	5.8
70°-80°	3.0	1.2
80°-90°	1.2	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°	37.4	15.0
0°-40°	98.5	39.5
0°-60°	230.3	92.5
0°-90°	249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	249.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	17	16	14	13	13	2
15°	66	24	12	11	12	24
25°	327	50	8	10	10	152
35°	549	71	5	8	10	335
45°	526	52	4	8	10	402
55°	362	13	3	8	10	312
65°	48	1	2	7	10	68
75°	1	1	1	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°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
2.5°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.0	14.8	14.4	14.0
5°	17.1	16.9	16.9	16.9	16.7	16.5	16.5	15.8	15.0	14.2	13.6
7.5°	20.2	20.2	20.0	19.5	19.3	18.9	18.5	16.9	15.0	13.8	13.0
10°	27.0	26.5	25.9	25.5	24.5	23.0	22.0	18.3	14.8	13.2	12.6
12.5°	40.3	41.1	39.1	37.0	34.2	31.5	28.2	20.8	14.8	12.6	11.9
15°	65.8	67.3	63.4	59.3	52.3	45.7	39.5	24.1	14.4	11.7	11.1
17.5°	107.6	109.5	102.9	93.2	82.3	69.1	57.8	28.6	14.0	10.9	10.5
20°	168.7	168.5	155.7	143.6	122.6	103.3	82.1	35.0	13.4	9.9	9.9
22.5°	243.8	244.6	229.0	207.2	177.4	146.3	112.5	42.4	12.6	9.1	9.3
25°	326.7	319.7	301.2	274.7	236.6	193.6	149.2	50.0	11.7	8.2	8.6
27.5°	395.8	389.1	367.9	336.4	295.4	244.4	186.4	57.6	10.7	7.4	8.0
30°	460.2	451.6	426.1	390.5	341.7	286.6	221.4	64.0	9.5	6.4	7.4
32.5°	513.3	505.5	476.5	435.1	382.1	322.8	251.0	68.9	8.2	5.8	7.0
35°	549.1	541.1	514.4	468.9	411.1	349.1	275.1	71.0	7.2	5.1	6.8
37.5°	557.4	553.0	533.9	491.3	431.0	366.0	290.5	70.4	6.0	4.7	6.4
40°	547.9	548.9	539.9	504.5	441.7	373.2	296.9	67.1	4.9	4.3	6.2
42.5°	535.8	538.4	537.8	509.8	446.3	373.6	294.2	60.5	3.9	3.9	6.0
45°	525.5	528.1	531.8	507.6	443.2	368.3	285.8	51.6	2.9	3.7	6.0
47.5°	506.7	509.6	515.0	489.5	427.5	354.5	270.6	42.0	2.1	3.5	5.8
50°	476.9	478.4	476.9	448.3	397.5	332.3	245.9	32.7	1.4	3.3	5.8
52.5°	446.3	443.4	431.4	395.2	349.8	297.1	214.8	23.2	1.0	3.1	5.6
55°	361.7	357.2	348.3	326.1	300.2	253.9	173.6	13.0	1.0	3.1	5.3
57.5°	252.0	254.5	257.6	253.1	241.1	200.0	131.9	5.8	1.0	2.9	5.3
60°	211.9	209.9	210.1	207.2	187.4	145.9	90.7	2.3	1.0	2.7	5.1
62.5°	126.5	128.0	130.6	131.3	111.7	81.5	47.5	1.0	1.0	2.5	4.9
65°	47.5	49.8	43.6	37.9	30.0	22.0	11.1	0.8	1.2	2.3	4.5
67.5°	1.4	1.6	2.1	1.9	1.9	1.6	1.2	0.8	1.2	2.1	4.3
70°	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8	1.0	1.9	3.9
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.6	3.5
75°	0.6	0.8	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.4	2.9
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.8	1.2	2.5
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.8	1.0	2.1
82.5°	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.8	0.8	1.6
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.8	1.0
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4	0.6	0.6	0.6
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°	14.4	14.4	14.4
2.5°	13.6	13.6	13.6
5°	13.2	13.2	13.2
7.5°	12.8	12.8	12.8
10°	12.3	12.3	12.3
12.5°	11.9	11.9	12.1
15°	11.3	11.7	11.7
17.5°	10.9	11.3	11.5
20°	10.5	10.9	11.1
22.5°	9.9	10.5	10.9
25°	9.5	10.3	10.5
27.5°	9.1	10.1	10.5
30°	8.8	9.9	10.3
32.5°	8.4	9.7	10.1
35°	8.2	9.7	10.1
37.5°	8.2	9.5	10.1
40°	8.0	9.5	10.1
42.5°	8.0	9.5	10.1
45°	8.0	9.5	10.1
47.5°	7.8	9.5	10.3
50°	7.8	9.7	10.3
52.5°	7.8	9.7	10.3
55°	7.8	9.7	10.1
57.5°	7.6	9.5	10.1
60°	7.6	9.5	10.1
62.5°	7.2	9.3	9.9
65°	7.0	9.1	9.7
67.5°	6.6	8.8	9.3
70°	6.2	8.2	8.8
72.5°	5.6	7.8	8.4
75°	4.9	7.2	7.6
77.5°	4.3	6.4	6.8
80°	3.5	5.3	5.8
82.5°	2.7	4.1	4.3
85°	1.9	2.7	2.9
87.5°	0.8	1.2	1.4
90°	0.0	0.0	0.0

(END OF REPORT)