

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: P1446501

Luminaire Tested: P3ART02R709730DE010 E3LCWW1GPH

Issue Date: 5/8/2026

**Test Information**

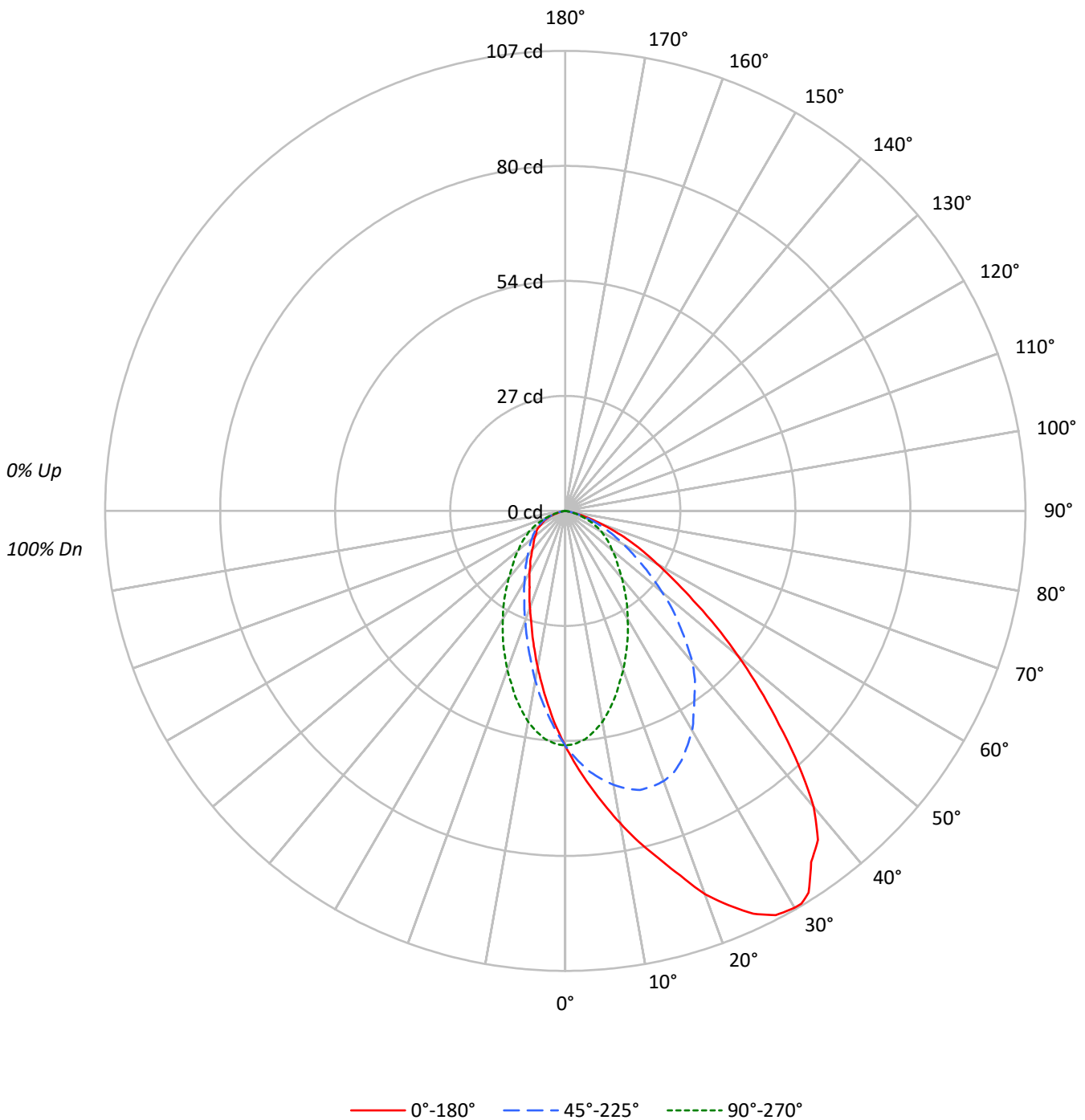
Test Method: LM-79-2019  
Report Number: P1446501  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART02R709730DE010 E3LCWW1GPH  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , E3LCWW1GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 111.0 lumens  
Efficiency: N/A  
Efficacy: 30.8 lumens/watt  
Spacing Criteria (0/90/45): 1.53 / 0.87 / 1.18  
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

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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88		88
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76		76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66		66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58		58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51		51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46		46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41		41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37		37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34		34
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31		31

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	11973	11973	11973	11973	11973
5°	14088	13339	11732	10412	9993
10°	16433	14406	11089	8929	8216
15°	18979	15255	10170	7514	6720
20°	22145	15611	9194	6324	5600
25°	25018	15485	8250	5420	4742
30°	26991	14939	7343	4786	4228
35°	26689	14027	6585	4310	3801
40°	25734	13168	5868	3893	3435
45°	21801	11629	5272	3628	3225
50°	17876	9995	4844	3446	3104
55°	13878	8334	4588	3364	3135
60°	10789	6929	4298	3333	2895
65°	8509	5707	3788	3113	2802
70°	5834	4231	3013	2629	2436
75°	2965	2372	2118	1864	1610
80°	379	758	1137	758	379
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21801 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.1	4.6
10°-20°	14.2	12.8
20°-30°	21.0	18.9
30°-40°	23.5	21.2
40°-50°	20.7	18.6
50°-60°	14.8	13.3
60°-70°	8.8	7.9
70°-80°	2.9	2.6
80°-90°	0.1	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°	40.3	36.3
0°-40°	63.8	57.4
0°-60°	99.2	89.3
0°-90°	111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	111.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	55	55	55	55	55	
5°	64	61	53	47	45	6
15°	84	67	45	33	30	24
25°	103	64	34	22	20	48
35°	100	52	25	16	14	63
45°	70	38	17	12	10	54
55°	36	22	12	9	8	33
65°	16	11	7	6	5	16
75°	4	3	2	2	2	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
2.5°	59.3	59.3	59.3	58.7	58.7	57.7	57.1	56.1	55.5	54.6	54.2
5°	64.0	64.0	63.4	62.8	61.8	60.6	59.0	57.4	55.5	53.9	53.3
7.5°	68.8	69.1	68.1	66.9	65.0	62.8	60.6	58.0	55.2	53.0	51.7
10°	73.8	73.8	72.5	70.6	67.8	64.7	61.2	57.7	54.2	51.1	49.8
12.5°	78.8	78.5	77.0	74.1	70.6	66.2	61.5	57.1	53.0	49.2	47.3
15°	83.6	83.6	81.4	77.9	72.9	67.2	61.5	55.8	51.1	46.7	44.8
17.5°	88.9	88.9	86.1	80.7	74.4	67.2	60.6	54.2	48.9	44.2	41.9
20°	94.9	94.6	90.5	83.3	75.1	66.9	59.3	52.4	46.4	41.3	39.4
22.5°	99.3	99.0	94.3	85.5	75.4	65.9	57.1	49.8	43.8	38.8	36.6
25°	103.4	102.8	97.5	86.4	74.7	64.0	54.9	47.0	41.3	36.3	34.1
27.5°	106.0	105.7	99.7	86.1	73.2	61.5	52.0	44.5	38.5	33.4	31.5
30°	106.6	106.9	99.7	84.5	70.6	59.0	49.2	41.6	35.6	31.2	29.0
31°	106.6	106.9	99.0	83.6	69.7	57.7	47.9	40.7	34.4	30.0	28.1
32.5°	105.3	104.7	98.1	82.0	67.5	55.5	46.4	39.1	32.8	28.4	26.8
35°	99.7	100.0	94.9	78.5	64.3	52.4	43.2	36.0	30.0	26.2	24.6
37.5°	96.5	96.5	87.4	73.8	60.9	49.5	39.4	32.5	27.4	24.0	22.4
40°	89.9	88.9	80.4	68.8	56.8	46.0	37.2	30.3	25.2	21.8	20.5
42.5°	80.4	79.5	72.9	64.3	51.4	41.6	35.3	26.8	22.7	19.9	18.6
45°	70.3	69.7	64.7	56.8	46.4	37.5	30.6	24.6	20.8	18.0	17.0
47.5°	61.2	60.2	56.5	50.5	41.9	33.7	26.5	22.1	18.6	16.4	15.8
50°	52.4	52.0	48.9	44.2	37.2	29.3	23.3	19.6	17.0	15.1	14.2
52.5°	44.2	43.5	41.9	38.2	32.5	25.5	20.5	17.3	15.1	13.9	13.2
55°	36.3	36.3	34.7	32.2	27.8	21.8	18.0	15.5	13.6	12.6	12.0
57.5°	30.0	30.0	28.7	27.1	23.0	18.6	15.8	13.6	12.3	11.4	10.7
60°	24.6	24.6	23.7	22.1	19.2	15.8	13.6	12.0	11.0	10.1	9.8
62.5°	20.5	20.2	19.6	18.0	15.8	13.2	11.7	10.4	9.5	8.8	8.5
65°	16.4	16.1	15.5	14.2	12.6	11.0	9.8	8.8	8.2	7.6	7.3
67.5°	12.6	12.6	12.0	11.0	9.8	8.8	7.9	7.3	6.6	6.3	6.0
70°	9.1	9.1	8.8	8.2	7.3	6.6	6.0	5.7	5.4	5.0	4.7
72.5°	6.3	6.3	6.0	5.7	5.0	4.7	4.1	4.1	3.8	3.8	3.5
75°	3.5	3.5	3.5	3.2	3.2	2.8	2.8	2.8	2.5	2.5	2.5
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.9	0.9	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
2.5°	53.9	53.0	52.4	52.0	51.1	50.8	50.5	50.1	50.1	50.1
5°	52.7	51.1	49.5	48.6	47.3	46.7	46.0	45.7	45.4	45.4
7.5°	50.5	48.6	46.7	45.1	43.8	42.6	41.9	41.3	41.3	41.0
10°	48.3	45.7	43.5	41.3	40.1	38.5	37.8	37.2	36.9	36.9
12.5°	45.7	42.6	40.1	38.2	36.3	35.0	34.1	33.4	33.1	33.1
15°	42.9	39.7	36.9	35.0	33.1	31.5	30.6	30.0	29.6	29.6
17.5°	40.1	36.9	33.7	31.9	30.0	28.4	27.8	27.1	26.8	26.5
20°	37.5	33.7	31.2	28.7	27.1	25.9	24.9	24.3	24.0	24.0
22.5°	34.7	31.2	28.4	26.5	24.9	23.7	22.4	22.1	21.8	21.8
25°	31.9	28.7	26.2	24.3	22.4	21.4	20.5	19.9	19.9	19.6
27.5°	29.6	26.5	24.0	22.1	20.8	19.6	18.9	18.3	18.0	18.0
30°	27.1	24.3	22.1	20.5	18.9	18.0	17.3	16.7	16.7	16.7
31°	26.5	23.7	21.4	19.6	18.3	17.3	16.7	16.4	16.1	16.1
32.5°	24.9	22.4	20.2	18.6	17.3	16.4	15.8	15.5	15.5	15.1
35°	23.0	20.5	18.6	17.0	16.1	15.1	14.5	14.2	14.2	14.2
37.5°	21.1	18.9	17.0	15.8	14.8	13.9	13.6	12.9	12.9	12.9
40°	19.2	17.3	15.8	14.5	13.6	12.9	12.6	12.3	12.0	12.0
42.5°	17.7	15.8	14.5	13.6	12.6	12.0	11.7	11.4	11.4	11.0
45°	16.1	14.5	13.6	12.6	11.7	11.4	11.0	10.7	10.4	10.4
47.5°	14.8	13.6	12.3	11.7	11.0	10.4	10.1	10.1	9.8	9.8
50°	13.6	12.3	11.4	10.7	10.1	9.8	9.5	9.5	9.1	9.1
52.5°	12.6	11.4	10.7	10.1	9.5	9.1	8.8	8.8	8.5	8.5
55°	11.4	10.4	9.8	9.5	8.8	8.5	8.2	7.9	7.9	8.2
57.5°	10.4	9.8	9.1	8.8	8.2	7.9	7.6	7.6	7.3	7.6
60°	9.5	8.8	8.2	7.9	7.6	7.3	6.9	6.6	6.6	6.6
62.5°	8.5	7.9	7.6	6.9	6.6	6.6	6.3	6.3	6.3	6.0
65°	7.3	6.9	6.6	6.3	6.0	5.7	5.7	5.4	5.4	5.4
67.5°	6.0	5.7	5.4	5.4	5.0	4.7	4.7	4.7	4.7	4.4
70°	4.7	4.4	4.4	4.1	4.1	4.1	3.8	3.8	3.8	3.8
72.5°	3.5	3.5	3.2	3.2	3.2	3.2	2.8	2.8	2.8	2.8
75°	2.5	2.5	2.5	2.2	2.2	2.2	1.9	1.9	1.9	1.9
77.5°	1.6	1.6	1.6	1.6	1.6	1.3	1.3	1.3	1.3	1.3
80°	0.9	0.9	0.9	0.9	0.6	0.6	0.6	0.6	0.6	0.3
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)