

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: P1446593

Luminaire Tested: P3ART13R709735DE010 E3LSWW1H

Issue Date: 5/8/2026

**Test Information**

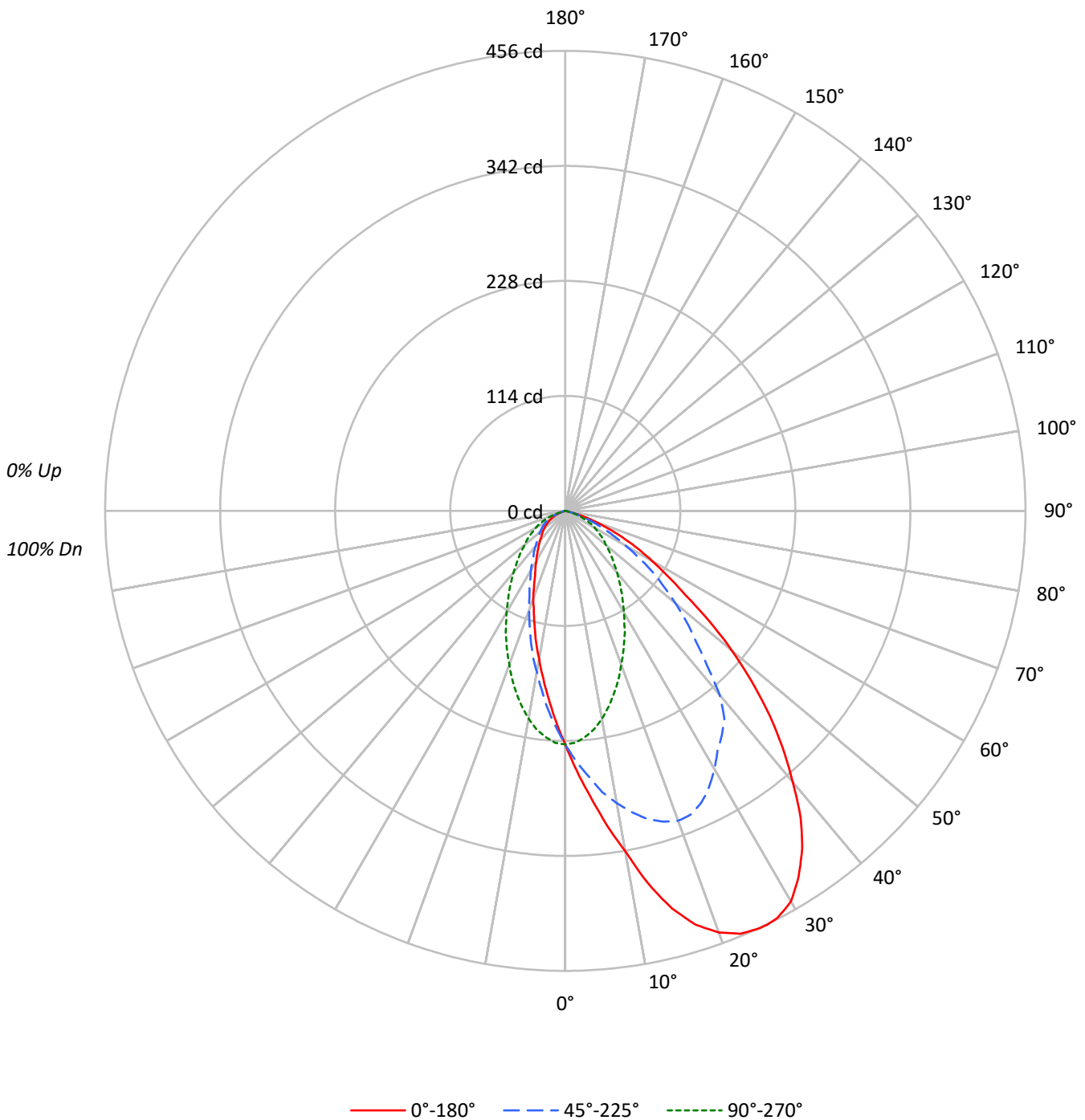
Test Method: LM-79-2019  
Report Number: P1446593  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709735DE010 E3LSWW1H  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , E3LSWW1H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 461.0 lumens  
Efficiency: N/A  
Efficacy: 31.6 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.85 / 1.23  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.6  
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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	91	91	91	89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	80	80	80	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	70	70	70	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	62	62	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	55	55	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	49	49	49	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	44	44	44	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	40	40	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	37	37	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	34	34	34	32

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

	0°	45°	90°	135°	180°
0°	50742	50742	50742	50742	50742
5°	62448	58133	49505	43451	41162
10°	76284	65508	46581	36094	33199
15°	92600	71828	42452	29989	26720
20°	103749	76283	37827	24409	21655
25°	110402	77182	33534	20251	17082
30°	113233	74822	29473	17218	14559
35°	109566	72464	25913	14696	12608
40°	100302	68128	22843	13110	11221
45°	88784	56781	20281	12156	10141
50°	73584	48612	17842	11155	9381
55°	55472	40486	16477	10513	8487
60°	43593	30392	14911	9736	7456
65°	32585	22363	12868	8146	6123
70°	20965	14233	9232	5898	3334
75°	8896	7795	4406	2203	1101
80°	1642	1642	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 88784 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.0	4.8
10°-20°	63.2	13.7
20°-30°	92.4	20.0
30°-40°	100.7	21.8
40°-50°	87.1	18.9
50°-60°	58.4	12.7
60°-70°	30.1	6.5
70°-80°	7.1	1.5
80°-90°	0.1	0.0
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°	177.5	38.5
0°-40°	278.2	60.3
0°-60°	423.7	91.9
0°-90°	461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	461.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	231	231	231	231	231	
5°	284	264	225	197	187	29
15°	408	316	187	132	118	116
25°	456	319	139	84	71	210
35°	409	271	97	55	47	253
45°	286	183	65	39	33	219
55°	145	106	43	28	22	134
65°	63	43	25	16	12	63
75°	10	9	5	3	1	14
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	231.4	231.4	231.4	231.4	231.4	231.4	231.4	231.4	231.4	231.4	231.4
2.5°	257.6	256.3	256.3	253.7	251.0	248.4	244.5	240.6	236.7	232.7	230.1
5°	283.7	285.0	283.7	278.5	272.0	264.1	256.3	247.1	238.0	230.1	224.9
7.5°	313.8	313.8	309.9	303.3	294.2	281.1	268.0	252.4	238.0	224.9	218.4
10°	342.6	342.6	336.0	325.6	311.2	294.2	275.9	255.0	235.4	217.0	209.2
12.5°	377.9	376.6	368.7	351.7	330.8	306.0	281.1	255.0	231.4	209.2	198.7
15°	407.9	406.6	396.2	375.3	347.8	316.4	282.4	252.4	223.6	198.7	187.0
17.5°	430.2	427.6	415.8	393.6	362.2	323.0	283.7	247.1	214.4	187.0	175.2
20°	444.6	443.2	430.2	404.0	370.0	326.9	282.4	240.6	205.3	175.2	162.1
22.5°	453.7	451.1	438.0	409.3	370.0	325.6	277.2	231.4	193.5	163.4	150.4
25°	456.3	455.0	439.3	407.9	366.1	319.0	269.3	222.3	181.7	151.7	138.6
26°	456.3	455.0	439.3	406.6	363.5	315.1	265.4	218.4	177.8	146.4	134.7
27.5°	455.0	453.7	436.7	402.7	358.3	308.6	257.6	210.5	170.0	139.9	126.8
30°	447.2	444.6	427.6	393.6	346.5	295.5	244.5	198.7	158.2	128.1	116.4
32.5°	430.2	427.6	409.3	377.9	333.4	281.1	230.1	185.7	146.4	116.4	105.9
35°	409.3	406.6	388.3	358.3	315.1	270.7	214.4	171.3	133.4	107.2	96.8
37.5°	383.1	379.2	363.5	332.1	292.9	258.9	201.4	156.9	121.6	96.8	87.6
40°	350.4	349.1	334.7	306.0	266.7	238.0	193.5	156.9	111.1	87.6	79.8
42.5°	319.0	316.4	303.3	278.5	243.2	207.9	170.0	150.4	103.3	78.5	71.9
45°	286.3	283.7	272.0	251.0	218.4	183.1	183.1	129.4	88.9	71.9	65.4
47.5°	251.0	248.4	239.3	223.6	194.8	163.4	133.4	105.9	81.1	64.1	58.8
50°	215.7	217.0	209.2	193.5	171.3	142.5	115.1	88.9	69.3	57.5	52.3
52.5°	180.4	179.1	173.9	163.4	147.7	122.9	98.1	75.8	60.1	51.0	48.4
55°	145.1	146.4	143.8	137.3	124.2	105.9	82.4	65.4	53.6	45.8	43.1
57.5°	120.3	121.6	116.4	112.4	102.0	86.3	68.0	54.9	45.8	40.5	37.9
60°	99.4	100.7	96.8	91.5	83.7	69.3	54.9	45.8	40.5	36.6	34.0
62.5°	81.1	79.8	77.1	71.9	65.4	54.9	44.5	37.9	34.0	31.4	30.1
65°	62.8	62.8	60.1	56.2	51.0	43.1	35.3	31.4	28.8	26.2	24.8
67.5°	47.1	47.1	44.5	41.8	36.6	31.4	27.5	24.8	23.5	20.9	19.6
70°	32.7	32.7	31.4	30.1	26.2	22.2	20.9	18.3	17.0	15.7	14.4
72.5°	20.9	20.9	20.9	18.3	17.0	14.4	14.4	13.1	11.8	10.5	10.5
75°	10.5	11.8	10.5	10.5	9.2	9.2	7.8	7.8	6.5	6.5	5.2
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	2.6	2.6	2.6	2.6	2.6
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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°	231.4	231.4	231.4	231.4	231.4	231.4	231.4	231.4	231.4	231.4
2.5°	227.5	223.6	221.0	217.0	214.4	211.8	210.5	209.2	209.2	209.2
5°	221.0	214.4	207.9	201.4	197.4	193.5	189.6	188.3	187.0	187.0
7.5°	213.1	202.7	193.5	185.7	179.1	175.2	171.3	168.7	167.4	167.4
10°	202.7	189.6	179.1	168.7	162.1	156.9	154.3	150.4	150.4	149.1
12.5°	190.9	175.2	163.4	154.3	147.7	141.2	137.3	134.7	133.4	133.4
15°	177.8	162.1	149.1	138.6	132.1	125.5	121.6	119.0	117.7	117.7
17.5°	164.7	147.7	134.7	124.2	117.7	111.1	107.2	104.6	104.6	103.3
20°	151.7	134.7	121.6	111.1	104.6	99.4	95.4	92.8	91.5	92.8
22.5°	139.9	122.9	109.8	100.7	92.8	87.6	83.7	82.4	81.1	81.1
25°	126.8	111.1	99.4	90.2	83.7	78.5	74.5	73.2	71.9	70.6
26°	122.9	107.2	95.4	86.3	79.8	74.5	71.9	69.3	68.0	68.0
27.5°	117.7	100.7	90.2	81.1	74.5	70.6	66.7	65.4	64.1	64.1
30°	105.9	91.5	81.1	73.2	68.0	62.8	60.1	58.8	57.5	57.5
32.5°	96.8	82.4	73.2	66.7	61.5	57.5	54.9	52.3	52.3	52.3
35°	87.6	74.5	66.7	60.1	54.9	51.0	49.7	48.4	47.1	47.1
37.5°	79.8	68.0	60.1	54.9	51.0	47.1	44.5	43.1	43.1	43.1
40°	71.9	62.8	54.9	49.7	45.8	43.1	40.5	39.2	39.2	39.2
42.5°	65.4	56.2	51.0	45.8	41.8	39.2	37.9	36.6	35.3	35.3
45°	60.1	52.3	45.8	41.8	39.2	36.6	34.0	32.7	32.7	32.7
47.5°	53.6	48.4	41.8	37.9	35.3	32.7	31.4	30.1	30.1	30.1
50°	49.7	44.5	39.2	35.3	32.7	30.1	28.8	27.5	27.5	27.5
52.5°	44.5	40.5	36.6	32.7	30.1	27.5	26.2	24.8	24.8	24.8
55°	40.5	36.6	32.7	30.1	27.5	24.8	23.5	22.2	22.2	22.2
57.5°	36.6	32.7	30.1	27.5	24.8	23.5	20.9	20.9	19.6	19.6
60°	32.7	28.8	26.2	24.8	22.2	20.9	18.3	17.0	17.0	17.0
62.5°	27.5	26.2	23.5	20.9	18.3	17.0	15.7	14.4	14.4	14.4
65°	23.5	22.2	19.6	17.0	15.7	14.4	13.1	11.8	11.8	11.8
67.5°	19.6	17.0	15.7	14.4	13.1	11.8	10.5	9.2	7.8	9.2
70°	14.4	13.1	11.8	10.5	9.2	7.8	6.5	6.5	5.2	5.2
72.5°	9.2	7.8	7.8	6.5	5.2	5.2	3.9	3.9	2.6	2.6
75°	5.2	5.2	3.9	3.9	2.6	2.6	1.3	1.3	1.3	1.3
77.5°	2.6	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)