

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: P1445943

Luminaire Tested: P3ART13R709035DE010 E3LSWW1H

Issue Date: 5/8/2026

**Test Information**

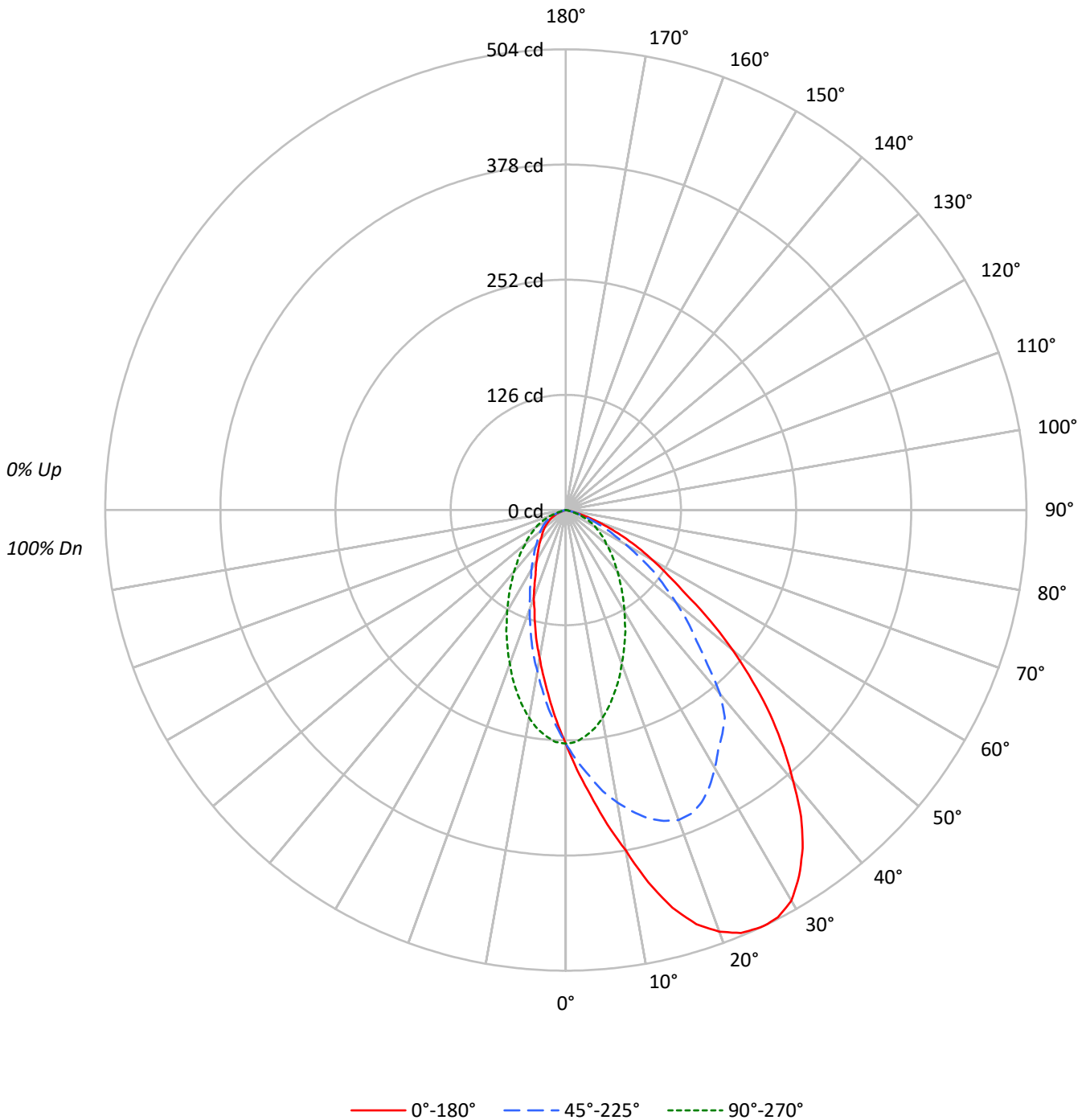
Test Method: LM-79-2019  
Report Number: P1445943  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709035DE010 E3LSWW1H  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , E3LSWW1H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 509.0 lumens  
Efficiency: N/A  
Efficacy: 34.9 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 (A<sub>in</sub>): 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	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89	89	89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	78	78	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68	68	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60	60	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53	53	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47	47	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43	43	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39	39	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35	35	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	32	32

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

	0°	45°	90°	135°	180°
0°	56026	56026	56026	56026	56026
5°	68963	64186	54655	47986	45432
10°	84211	72321	51435	39857	36650
15°	102248	79319	46856	33099	29489
20°	114530	84217	41770	26952	23919
25°	121894	85239	37018	22356	18872
30°	125007	82620	32537	19016	16078
35°	120970	79986	28590	16222	13920
40°	110750	75198	25219	14456	12395
45°	98057	62673	22390	13428	11195
50°	81260	53695	19684	12315	10337
55°	61245	44691	18198	11584	9366
60°	48110	33550	16446	10745	8245
65°	35957	24698	14217	8976	6745
70°	23145	15708	10194	6475	3719
75°	9743	8557	4914	2457	1186
80°	1768	1768	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 98057 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.2	4.8
10°-20°	69.8	13.7
20°-30°	102.0	20.0
30°-40°	111.1	21.8
40°-50°	96.2	18.9
50°-60°	64.4	12.7
60°-70°	33.3	6.5
70°-80°	7.9	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°	196.0	38.5
0°-40°	307.2	60.3
0°-60°	467.8	91.9
0°-90°	509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	509.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	256	256	256	256	256	
5°	313	292	248	218	206	32
15°	450	349	206	146	130	128
25°	504	352	153	92	78	231
35°	452	299	107	61	52	280
45°	316	202	72	43	36	242
55°	160	117	48	30	24	148
65°	69	48	27	17	13	70
75°	12	10	6	3	1	15
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°	255.5	255.5	255.5	255.5	255.5	255.5	255.5	255.5	255.5	255.5	255.5
2.5°	284.4	283.0	283.0	280.1	277.2	274.3	270.0	265.6	261.3	257.0	254.1
5°	313.3	314.7	313.3	307.5	300.3	291.6	283.0	272.9	262.7	254.1	248.3
7.5°	346.5	346.5	342.1	334.9	324.8	310.4	295.9	278.6	262.7	248.3	241.1
10°	378.2	378.2	371.0	359.5	343.6	324.8	304.6	281.5	259.9	239.6	231.0
12.5°	417.2	415.8	407.1	388.3	365.2	337.8	310.4	281.5	255.5	231.0	219.4
15°	450.4	449.0	437.4	414.3	384.0	349.4	311.8	278.6	246.9	219.4	206.4
17.5°	475.0	472.1	459.1	434.5	399.9	356.6	313.3	272.9	236.8	206.4	193.5
20°	490.8	489.4	475.0	446.1	408.6	360.9	311.8	265.6	226.7	193.5	179.0
22.5°	500.9	498.1	483.6	451.9	408.6	359.5	306.1	255.5	213.7	180.5	166.0
25°	503.8	502.4	485.1	450.4	404.2	352.3	297.4	245.4	200.7	167.5	153.0
26°	503.8	502.4	485.1	449.0	401.3	347.9	293.1	241.1	196.3	161.7	148.7
27.5°	502.4	500.9	482.2	444.6	395.6	340.7	284.4	232.4	187.7	154.5	140.0
30°	493.7	490.8	472.1	434.5	382.6	326.3	270.0	219.4	174.7	141.5	128.5
32.5°	475.0	472.1	451.9	417.2	368.1	310.4	254.1	205.0	161.7	128.5	116.9
35°	451.9	449.0	428.8	395.6	347.9	298.8	236.8	189.1	147.3	118.4	106.8
37.5°	423.0	418.7	401.3	366.7	323.4	285.8	222.3	173.2	134.3	106.8	96.7
40°	386.9	385.5	369.6	337.8	294.5	262.7	213.7	173.2	122.7	96.7	88.1
42.5°	352.3	349.4	334.9	307.5	268.5	229.5	187.7	166.0	114.0	86.6	79.4
45°	316.2	313.3	300.3	277.2	241.1	202.1	202.1	142.9	98.2	79.4	72.2
47.5°	277.2	274.3	264.2	246.9	215.1	180.5	147.3	116.9	89.5	70.7	65.0
50°	238.2	239.6	231.0	213.7	189.1	157.4	127.0	98.2	76.5	63.5	57.7
52.5°	199.2	197.8	192.0	180.5	163.1	135.7	108.3	83.7	66.4	56.3	53.4
55°	160.2	161.7	158.8	151.6	137.1	116.9	91.0	72.2	59.2	50.5	47.6
57.5°	132.8	134.3	128.5	124.2	112.6	95.3	75.1	60.6	50.5	44.8	41.9
60°	109.7	111.2	106.8	101.1	92.4	76.5	60.6	50.5	44.8	40.4	37.5
62.5°	89.5	88.1	85.2	79.4	72.2	60.6	49.1	41.9	37.5	34.6	33.2
65°	69.3	69.3	66.4	62.1	56.3	47.6	39.0	34.6	31.8	28.9	27.4
67.5°	52.0	52.0	49.1	46.2	40.4	34.6	30.3	27.4	26.0	23.1	21.7
70°	36.1	36.1	34.6	33.2	28.9	24.5	23.1	20.2	18.8	17.3	15.9
72.5°	23.1	23.1	23.1	20.2	18.8	15.9	15.9	14.4	13.0	11.5	11.5
75°	11.5	13.0	11.5	11.5	10.1	10.1	8.7	8.7	7.2	7.2	5.8
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	2.9	2.9	2.9	2.9	2.9
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	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°	255.5	255.5	255.5	255.5	255.5	255.5	255.5	255.5	255.5	255.5
2.5°	251.2	246.9	244.0	239.6	236.8	233.9	232.4	231.0	231.0	231.0
5°	244.0	236.8	229.5	222.3	218.0	213.7	209.3	207.9	206.4	206.4
7.5°	235.3	223.8	213.7	205.0	197.8	193.5	189.1	186.2	184.8	184.8
10°	223.8	209.3	197.8	186.2	179.0	173.2	170.4	166.0	166.0	164.6
12.5°	210.8	193.5	180.5	170.4	163.1	155.9	151.6	148.7	147.3	147.3
15°	196.3	179.0	164.6	153.0	145.8	138.6	134.3	131.4	129.9	129.9
17.5°	181.9	163.1	148.7	137.1	129.9	122.7	118.4	115.5	115.5	114.0
20°	167.5	148.7	134.3	122.7	115.5	109.7	105.4	102.5	101.1	102.5
22.5°	154.5	135.7	121.3	111.2	102.5	96.7	92.4	91.0	89.5	89.5
25°	140.0	122.7	109.7	99.6	92.4	86.6	82.3	80.8	79.4	78.0
26°	135.7	118.4	105.4	95.3	88.1	82.3	79.4	76.5	75.1	75.1
27.5°	129.9	111.2	99.6	89.5	82.3	78.0	73.6	72.2	70.7	70.7
30°	116.9	101.1	89.5	80.8	75.1	69.3	66.4	65.0	63.5	63.5
32.5°	106.8	91.0	80.8	73.6	67.9	63.5	60.6	57.7	57.7	57.7
35°	96.7	82.3	73.6	66.4	60.6	56.3	54.9	53.4	52.0	52.0
37.5°	88.1	75.1	66.4	60.6	56.3	52.0	49.1	47.6	47.6	47.6
40°	79.4	69.3	60.6	54.9	50.5	47.6	44.8	43.3	43.3	43.3
42.5°	72.2	62.1	56.3	50.5	46.2	43.3	41.9	40.4	39.0	39.0
45°	66.4	57.7	50.5	46.2	43.3	40.4	37.5	36.1	36.1	36.1
47.5°	59.2	53.4	46.2	41.9	39.0	36.1	34.6	33.2	33.2	33.2
50°	54.9	49.1	43.3	39.0	36.1	33.2	31.8	30.3	30.3	30.3
52.5°	49.1	44.8	40.4	36.1	33.2	30.3	28.9	27.4	27.4	27.4
55°	44.8	40.4	36.1	33.2	30.3	27.4	26.0	24.5	24.5	24.5
57.5°	40.4	36.1	33.2	30.3	27.4	26.0	23.1	23.1	21.7	21.7
60°	36.1	31.8	28.9	27.4	24.5	23.1	20.2	18.8	18.8	18.8
62.5°	30.3	28.9	26.0	23.1	20.2	18.8	17.3	15.9	15.9	15.9
65°	26.0	24.5	21.7	18.8	17.3	15.9	14.4	13.0	13.0	13.0
67.5°	21.7	18.8	17.3	15.9	14.4	13.0	11.5	10.1	8.7	10.1
70°	15.9	14.4	13.0	11.5	10.1	8.7	7.2	7.2	5.8	5.8
72.5°	10.1	8.7	8.7	7.2	5.8	5.8	4.3	4.3	2.9	2.9
75°	5.8	5.8	4.3	4.3	2.9	2.9	1.4	1.4	1.4	1.4
77.5°	2.9	1.4	1.4	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)