

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: P1446189

Luminaire Tested: P3ART13R709050DE010 E3LCWW1GPH

Issue Date: 5/8/2026

**Test Information**

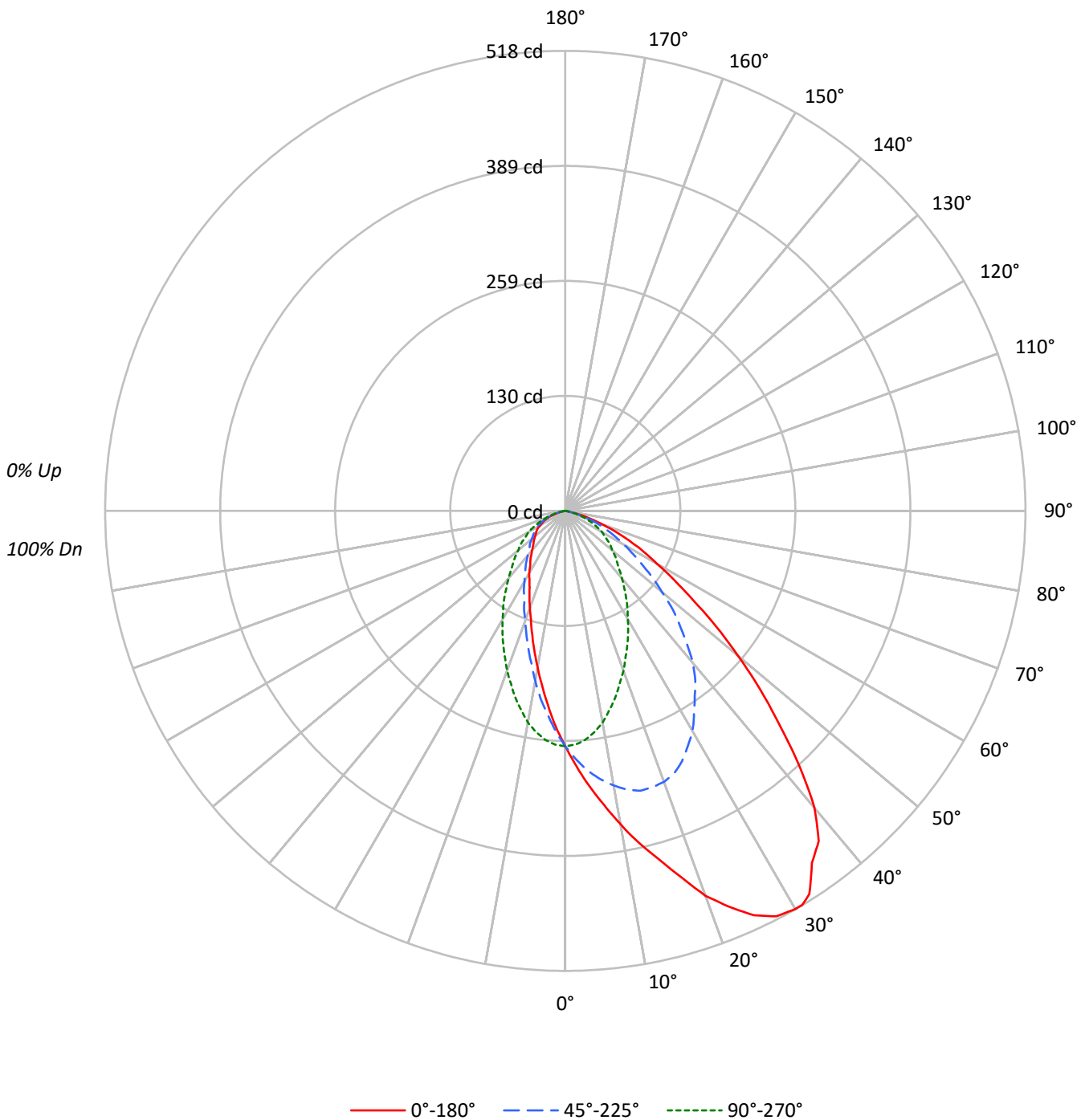
Test Method: LM-79-2019  
Report Number: P1446189  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709050DE010 E3LCWW1GPH  
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , E3LCWW1GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 539.0 lumens  
Efficiency: N/A  
Efficacy: 36.9 lumens/watt  
Spacing Criteria (0/90/45): 1.54 / 0.87 / 1.18  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31

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

	0°	45°	90°	135°	180°
0°	58087	58087	58087	58087	58087
5°	68435	64715	56967	50561	48536
10°	79803	69894	53885	43308	39901
15°	92123	74053	49376	36504	32690
20°	107576	75770	44664	30733	27162
25°	121531	75222	40018	26300	22961
30°	131058	72517	35676	23269	20560
35°	129536	68047	31989	20907	18444
40°	124948	64006	28482	18864	16660
45°	105902	56502	25646	17583	15661
50°	86718	48578	23505	16716	15147
55°	67324	40410	22250	16401	15216
60°	52408	33594	20832	16139	14122
65°	41301	27811	18264	15099	13490
70°	28466	20645	14746	12759	11797
75°	14234	11692	10421	9065	7795
80°	1894	3915	5809	3915	1894
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 105902 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.8	4.6
10°-20°	69.0	12.8
20°-30°	101.7	18.9
30°-40°	114.0	21.2
40°-50°	100.3	18.6
50°-60°	71.7	13.3
60°-70°	42.5	7.9
70°-80°	14.3	2.6
80°-90°	0.7	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°	195.5	36.3
0°-40°	309.6	57.4
0°-60°	481.6	89.3
0°-90°	539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	539.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	265	265	265	265	265	
5°	311	294	259	230	220	31
15°	406	326	218	161	144	117
25°	502	311	165	109	95	231
35°	484	254	120	78	69	304
45°	342	182	83	57	50	264
55°	176	106	58	43	40	161
65°	80	54	35	29	26	80
75°	17	14	12	11	9	20
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°	264.9	264.9	264.9	264.9	264.9	264.9	264.9	264.9	264.9	264.9	264.9
2.5°	287.9	287.9	287.9	284.8	284.8	280.3	277.2	272.6	269.5	264.9	263.4
5°	310.9	310.9	307.8	304.8	300.2	294.0	286.4	278.7	269.5	261.9	258.8
7.5°	333.9	335.4	330.8	324.7	315.5	304.8	294.0	281.8	268.0	257.3	251.2
10°	358.4	358.4	352.2	343.0	329.3	313.9	297.1	280.3	263.4	248.1	242.0
12.5°	382.9	381.3	373.7	359.9	343.0	321.6	298.6	277.2	257.3	238.9	229.7
15°	405.8	405.8	395.1	378.3	353.8	326.2	298.6	271.1	248.1	226.7	217.5
17.5°	431.9	431.9	418.1	392.1	361.4	326.2	294.0	263.4	237.4	214.4	203.7
20°	461.0	459.4	439.5	404.3	364.5	324.7	287.9	254.2	225.1	200.6	191.4
22.5°	482.4	480.9	457.9	415.0	366.0	320.1	277.2	242.0	212.9	188.4	177.6
25°	502.3	499.3	473.2	419.6	363.0	310.9	266.5	228.2	200.6	176.1	165.4
27.5°	514.6	513.0	483.9	418.1	355.3	298.6	252.7	215.9	186.8	162.3	153.1
30°	517.6	519.2	483.9	410.4	343.0	286.4	238.9	202.2	173.1	151.6	140.9
31°	517.6	519.2	480.9	405.8	338.5	280.3	232.8	197.6	166.9	145.5	136.3
32.5°	511.5	508.4	476.3	398.2	327.7	269.5	225.1	189.9	159.3	137.8	130.2
35°	483.9	485.5	461.0	381.3	312.4	254.2	209.8	174.6	145.5	127.1	119.5
37.5°	468.6	468.6	424.2	358.4	295.6	240.4	191.4	157.7	133.2	116.4	108.7
40°	436.5	431.9	390.5	333.9	275.7	223.6	180.7	147.0	122.5	105.7	99.5
42.5°	390.5	385.9	353.8	312.4	249.6	202.2	171.5	130.2	110.3	96.5	90.4
45°	341.5	338.5	313.9	275.7	225.1	182.2	148.6	119.5	101.1	87.3	82.7
47.5°	297.1	292.5	274.1	245.0	203.7	163.9	128.6	107.2	90.4	79.6	76.6
50°	254.2	252.7	237.4	214.4	180.7	142.4	113.3	94.9	82.7	73.5	68.9
52.5°	214.4	211.3	203.7	185.3	157.7	124.0	99.5	84.2	73.5	67.4	64.3
55°	176.1	176.1	168.5	156.2	134.8	105.7	87.3	75.0	65.9	61.3	58.2
57.5°	145.5	145.5	139.4	131.7	111.8	90.4	76.6	65.9	59.7	55.1	52.1
60°	119.5	119.5	114.9	107.2	93.4	76.6	65.9	58.2	53.6	49.0	47.5
62.5°	99.5	98.0	94.9	87.3	76.6	64.3	56.7	50.5	45.9	42.9	41.3
65°	79.6	78.1	75.0	68.9	61.3	53.6	47.5	42.9	39.8	36.8	35.2
67.5°	61.3	61.3	58.2	53.6	47.5	42.9	38.3	35.2	32.2	30.6	29.1
70°	44.4	44.4	42.9	39.8	35.2	32.2	29.1	27.6	26.0	24.5	23.0
72.5°	30.6	30.6	29.1	27.6	24.5	23.0	19.9	19.9	18.4	18.4	16.8
75°	16.8	16.8	16.8	15.3	15.3	13.8	13.8	13.8	12.3	12.3	12.3
77.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
80°	1.5	1.5	1.5	1.5	3.1	3.1	3.1	3.1	4.6	4.6	4.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
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°	264.9	264.9	264.9	264.9	264.9	264.9	264.9	264.9	264.9	264.9
2.5°	261.9	257.3	254.2	252.7	248.1	246.6	245.0	243.5	243.5	243.5
5°	255.8	248.1	240.4	235.8	229.7	226.7	223.6	222.1	220.5	220.5
7.5°	245.0	235.8	226.7	219.0	212.9	206.7	203.7	200.6	200.6	199.1
10°	234.3	222.1	211.3	200.6	194.5	186.8	183.8	180.7	179.2	179.2
12.5°	222.1	206.7	194.5	185.3	176.1	170.0	165.4	162.3	160.8	160.8
15°	208.3	193.0	179.2	170.0	160.8	153.1	148.6	145.5	144.0	144.0
17.5°	194.5	179.2	163.9	154.7	145.5	137.8	134.8	131.7	130.2	128.6
20°	182.2	163.9	151.6	139.4	131.7	125.6	121.0	117.9	116.4	116.4
22.5°	168.5	151.6	137.8	128.6	121.0	114.9	108.7	107.2	105.7	105.7
25°	154.7	139.4	127.1	117.9	108.7	104.1	99.5	96.5	96.5	94.9
27.5°	144.0	128.6	116.4	107.2	101.1	94.9	91.9	88.8	87.3	87.3
30°	131.7	117.9	107.2	99.5	91.9	87.3	84.2	81.2	81.2	81.2
31°	128.6	114.9	104.1	94.9	88.8	84.2	81.2	79.6	78.1	78.1
32.5°	121.0	108.7	98.0	90.4	84.2	79.6	76.6	75.0	75.0	73.5
35°	111.8	99.5	90.4	82.7	78.1	73.5	70.4	68.9	68.9	68.9
37.5°	102.6	91.9	82.7	76.6	72.0	67.4	65.9	62.8	62.8	62.8
40°	93.4	84.2	76.6	70.4	65.9	62.8	61.3	59.7	58.2	58.2
42.5°	85.8	76.6	70.4	65.9	61.3	58.2	56.7	55.1	55.1	53.6
45°	78.1	70.4	65.9	61.3	56.7	55.1	53.6	52.1	50.5	50.5
47.5°	72.0	65.9	59.7	56.7	53.6	50.5	49.0	49.0	47.5	47.5
50°	65.9	59.7	55.1	52.1	49.0	47.5	45.9	45.9	44.4	44.4
52.5°	61.3	55.1	52.1	49.0	45.9	44.4	42.9	42.9	41.3	41.3
55°	55.1	50.5	47.5	45.9	42.9	41.3	39.8	38.3	38.3	39.8
57.5°	50.5	47.5	44.4	42.9	39.8	38.3	36.8	36.8	35.2	36.8
60°	45.9	42.9	39.8	38.3	36.8	35.2	33.7	32.2	32.2	32.2
62.5°	41.3	38.3	36.8	33.7	32.2	32.2	30.6	30.6	30.6	29.1
65°	35.2	33.7	32.2	30.6	29.1	27.6	27.6	26.0	26.0	26.0
67.5°	29.1	27.6	26.0	26.0	24.5	23.0	23.0	23.0	23.0	21.4
70°	23.0	21.4	21.4	19.9	19.9	19.9	18.4	18.4	18.4	18.4
72.5°	16.8	16.8	15.3	15.3	15.3	15.3	13.8	13.8	13.8	13.8
75°	12.3	12.3	12.3	10.7	10.7	10.7	9.2	9.2	9.2	9.2
77.5°	7.7	7.7	7.7	7.7	7.7	6.1	6.1	6.1	6.1	6.1
80°	4.6	4.6	4.6	4.6	3.1	3.1	3.1	3.1	3.1	1.5
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	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)