

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: P1446059

Luminaire Tested: P3ART13R709040DE010 E3LCWW1GPH

Issue Date: 5/8/2026

**Test Information**

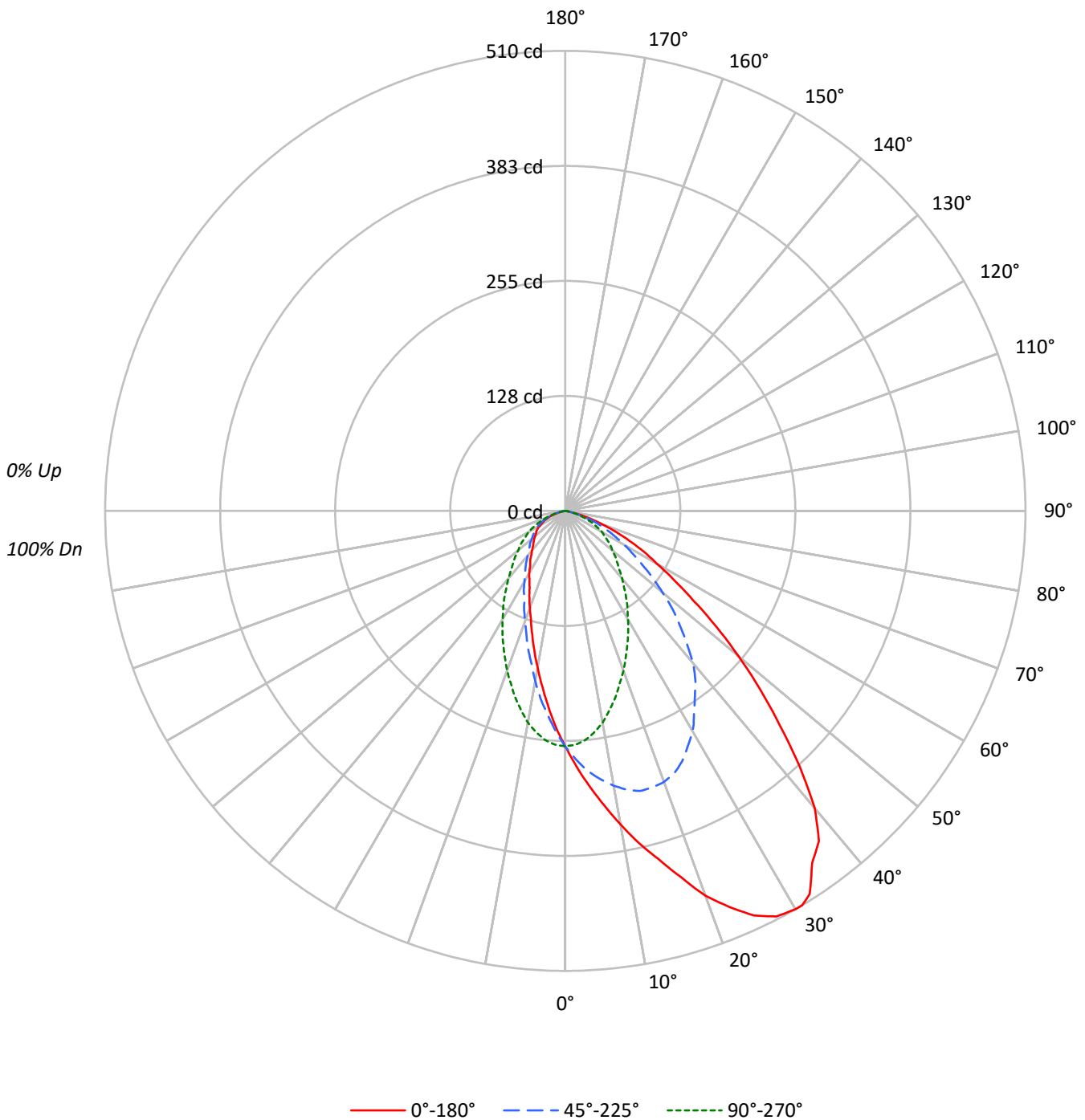
Test Method: LM-79-2019  
Report Number: P1446059  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709040DE010 E3LCWW1GPH  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , E3LCWW1GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 531.0 lumens  
Efficiency: N/A  
Efficacy: 36.4 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

TEST NUMBER: P1446059  
CATALOG NUMBER: P3ART13R709040DE010 E3LCWW1GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P1446059

CATALOG NUMBER: P3ART13R709040DE010 E3LCWW1GPH

**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°	57232	57232	57232	57232	57232
5°	67422	63768	56130	49813	47832
10°	78600	68870	53083	42662	39300
15°	90761	72963	48627	35959	32191
20°	105966	74626	44010	30289	26766
25°	119741	74109	39414	25913	22622
30°	129108	71429	35145	22915	20256
35°	127636	67030	31507	20586	18176
40°	123088	63061	28081	18578	16402
45°	104321	55665	25274	17304	15443
50°	85421	47862	23163	16477	14942
55°	66330	39798	21906	16133	14986
60°	51619	33068	20525	15876	13902
65°	40731	27396	18005	14891	13283
70°	28082	20324	14490	12566	11605
75°	14064	11522	10252	8981	7710
80°	1894	3788	5683	3788	1894
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 104321 cd/sqm



TEST NUMBER: P1446059

CATALOG NUMBER: P3ART13R709040DE010 E3LCWW1GPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.4	4.6
10°-20°	68.0	12.8
20°-30°	100.2	18.9
30°-40°	112.3	21.2
40°-50°	98.8	18.6
50°-60°	70.7	13.3
60°-70°	41.9	7.9
70°-80°	14.0	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°	192.6	36.3
0°-40°	305.0	57.4
0°-60°	474.4	89.3
0°-90°	531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	531.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	261	261	261	261	261	
5°	306	290	255	226	217	31
15°	400	321	214	158	142	115
25°	495	306	163	107	94	227
35°	477	250	118	77	68	300
45°	336	180	82	56	50	260
55°	174	104	57	42	39	159
65°	78	53	35	29	26	78
75°	17	14	12	11	9	20
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1446059

CATALOG NUMBER: P3ART13R709040DE010 E3LCWW1GPH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0
2.5°	283.6	283.6	283.6	280.6	280.6	276.1	273.1	268.6	265.5	261.0	259.5
5°	306.3	306.3	303.3	300.2	295.7	289.7	282.1	274.6	265.5	258.0	255.0
7.5°	328.9	330.4	325.9	319.8	310.8	300.2	289.7	277.6	264.0	253.5	247.4
10°	353.0	353.0	347.0	338.0	324.4	309.3	292.7	276.1	259.5	244.4	238.4
12.5°	377.2	375.7	368.1	354.5	338.0	316.8	294.2	273.1	253.5	235.4	226.3
15°	399.8	399.8	389.3	372.7	348.5	321.4	294.2	267.0	244.4	223.3	214.2
17.5°	425.5	425.5	411.9	386.2	356.1	321.4	289.7	259.5	233.9	211.2	200.7
20°	454.1	452.6	433.0	398.3	359.1	319.8	283.6	250.4	221.8	197.6	188.6
22.5°	475.2	473.7	451.1	408.9	360.6	315.3	273.1	238.4	209.7	185.6	175.0
25°	494.9	491.8	466.2	413.4	357.6	306.3	262.5	224.8	197.6	173.5	162.9
27.5°	506.9	505.4	476.8	411.9	350.0	294.2	248.9	212.7	184.1	159.9	150.9
30°	509.9	511.5	476.8	404.3	338.0	282.1	235.4	199.2	170.5	149.4	138.8
31°	509.9	511.5	473.7	399.8	333.4	276.1	229.3	194.6	164.5	143.3	134.3
32.5°	503.9	500.9	469.2	392.3	322.9	265.5	221.8	187.1	156.9	135.8	128.2
35°	476.8	478.3	454.1	375.7	307.8	250.4	206.7	172.0	143.3	125.2	117.7
37.5°	461.7	461.7	417.9	353.0	291.2	236.9	188.6	155.4	131.3	114.7	107.1
40°	430.0	425.5	384.7	328.9	271.6	220.3	178.0	144.8	120.7	104.1	98.1
42.5°	384.7	380.2	348.5	307.8	245.9	199.2	169.0	128.2	108.6	95.0	89.0
45°	336.4	333.4	309.3	271.6	221.8	179.5	146.3	117.7	99.6	86.0	81.5
47.5°	292.7	288.2	270.1	241.4	200.7	161.4	126.7	105.6	89.0	78.5	75.4
50°	250.4	248.9	233.9	211.2	178.0	140.3	111.6	93.5	81.5	72.4	67.9
52.5°	211.2	208.2	200.7	182.6	155.4	122.2	98.1	83.0	72.4	66.4	63.4
55°	173.5	173.5	166.0	153.9	132.8	104.1	86.0	73.9	64.9	60.3	57.3
57.5°	143.3	143.3	137.3	129.8	110.1	89.0	75.4	64.9	58.8	54.3	51.3
60°	117.7	117.7	113.2	105.6	92.0	75.4	64.9	57.3	52.8	48.3	46.8
62.5°	98.1	96.6	93.5	86.0	75.4	63.4	55.8	49.8	45.3	42.2	40.7
65°	78.5	76.9	73.9	67.9	60.3	52.8	46.8	42.2	39.2	36.2	34.7
67.5°	60.3	60.3	57.3	52.8	46.8	42.2	37.7	34.7	31.7	30.2	28.7
70°	43.8	43.8	42.2	39.2	34.7	31.7	28.7	27.2	25.6	24.1	22.6
72.5°	30.2	30.2	28.7	27.2	24.1	22.6	19.6	19.6	18.1	18.1	16.6
75°	16.6	16.6	16.6	15.1	15.1	13.6	13.6	13.6	12.1	12.1	12.1
77.5°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
80°	1.5	1.5	1.5	1.5	3.0	3.0	3.0	3.0	4.5	4.5	4.5
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



TEST NUMBER: P1446059

CATALOG NUMBER: P3ART13R709040DE010 E3LCWW1GPH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0
2.5°	258.0	253.5	250.4	248.9	244.4	242.9	241.4	239.9	239.9	239.9
5°	252.0	244.4	236.9	232.3	226.3	223.3	220.3	218.8	217.3	217.3
7.5°	241.4	232.3	223.3	215.7	209.7	203.7	200.7	197.6	197.6	196.1
10°	230.8	218.8	208.2	197.6	191.6	184.1	181.0	178.0	176.5	176.5
12.5°	218.8	203.7	191.6	182.6	173.5	167.5	162.9	159.9	158.4	158.4
15°	205.2	190.1	176.5	167.5	158.4	150.9	146.3	143.3	141.8	141.8
17.5°	191.6	176.5	161.4	152.4	143.3	135.8	132.8	129.8	128.2	126.7
20°	179.5	161.4	149.4	137.3	129.8	123.7	119.2	116.2	114.7	114.7
22.5°	166.0	149.4	135.8	126.7	119.2	113.2	107.1	105.6	104.1	104.1
25°	152.4	137.3	125.2	116.2	107.1	102.6	98.1	95.0	95.0	93.5
27.5°	141.8	126.7	114.7	105.6	99.6	93.5	90.5	87.5	86.0	86.0
30°	129.8	116.2	105.6	98.1	90.5	86.0	83.0	80.0	80.0	80.0
31°	126.7	113.2	102.6	93.5	87.5	83.0	80.0	78.5	76.9	76.9
32.5°	119.2	107.1	96.6	89.0	83.0	78.5	75.4	73.9	73.9	72.4
35°	110.1	98.1	89.0	81.5	76.9	72.4	69.4	67.9	67.9	67.9
37.5°	101.1	90.5	81.5	75.4	70.9	66.4	64.9	61.9	61.9	61.9
40°	92.0	83.0	75.4	69.4	64.9	61.9	60.3	58.8	57.3	57.3
42.5°	84.5	75.4	69.4	64.9	60.3	57.3	55.8	54.3	54.3	52.8
45°	76.9	69.4	64.9	60.3	55.8	54.3	52.8	51.3	49.8	49.8
47.5°	70.9	64.9	58.8	55.8	52.8	49.8	48.3	48.3	46.8	46.8
50°	64.9	58.8	54.3	51.3	48.3	46.8	45.3	45.3	43.8	43.8
52.5°	60.3	54.3	51.3	48.3	45.3	43.8	42.2	42.2	40.7	40.7
55°	54.3	49.8	46.8	45.3	42.2	40.7	39.2	37.7	37.7	39.2
57.5°	49.8	46.8	43.8	42.2	39.2	37.7	36.2	36.2	34.7	36.2
60°	45.3	42.2	39.2	37.7	36.2	34.7	33.2	31.7	31.7	31.7
62.5°	40.7	37.7	36.2	33.2	31.7	31.7	30.2	30.2	30.2	28.7
65°	34.7	33.2	31.7	30.2	28.7	27.2	27.2	25.6	25.6	25.6
67.5°	28.7	27.2	25.6	25.6	24.1	22.6	22.6	22.6	22.6	21.1
70°	22.6	21.1	21.1	19.6	19.6	19.6	18.1	18.1	18.1	18.1
72.5°	16.6	16.6	15.1	15.1	15.1	15.1	13.6	13.6	13.6	13.6
75°	12.1	12.1	12.1	10.6	10.6	10.6	9.1	9.1	9.1	9.1
77.5°	7.5	7.5	7.5	7.5	7.5	6.0	6.0	6.0	6.0	6.0
80°	4.5	4.5	4.5	4.5	3.0	3.0	3.0	3.0	3.0	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)