

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: P1446450

Luminaire Tested: P3ART13R709730DE010 E3LCWW1H

Issue Date: 5/8/2026

**Test Information**

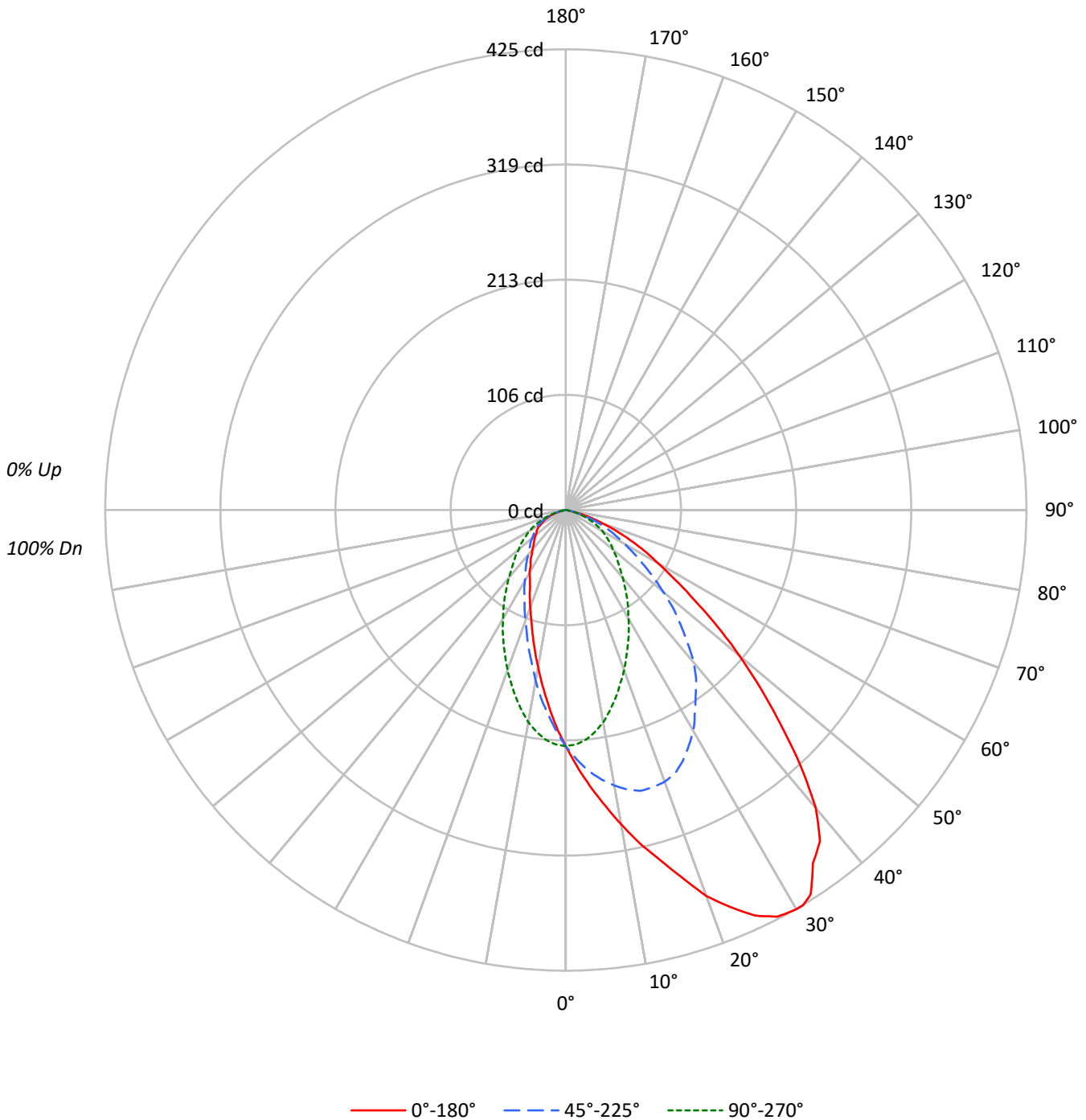
Test Method: LM-79-2019  
Report Number: P1446450  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709730DE010 E3LCWW1H  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , E3LCWW1H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 443.0 lumens  
Efficiency: N/A  
Efficacy: 30.3 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 (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		
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°	47759	47759	47759	47759	47759
5°	56240	53203	46819	41558	39907
10°	65574	57447	44288	35604	32798
15°	75733	60863	40568	30012	26856
20°	88418	62259	36707	25249	22332
25°	99877	61818	32881	21630	18872
30°	107713	59604	29321	19117	16889
35°	106461	55921	26287	17186	15151
40°	102678	52613	23415	15486	13683
45°	87048	46454	21087	14451	12870
50°	71264	39948	19309	13748	12452
55°	55319	33184	18274	13457	12501
60°	43067	27586	17104	13245	11578
65°	33985	22882	14995	12401	11104
70°	23401	16926	12117	10515	9681
75°	11692	9574	8557	7456	6439
80°	1642	3157	4799	3157	1642
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 87048 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.4	4.6
10°-20°	56.7	12.8
20°-30°	83.6	18.9
30°-40°	93.7	21.2
40°-50°	82.4	18.6
50°-60°	59.0	13.3
60°-70°	34.9	7.9
70°-80°	11.7	2.6
80°-90°	0.6	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°	160.7	36.3
0°-40°	254.4	57.4
0°-60°	395.8	89.3
0°-90°	443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	443.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	218	218	218	218	218	
5°	256	242	213	189	181	26
15°	334	268	179	132	118	96
25°	413	256	136	89	78	190
35°	398	209	98	64	57	250
45°	281	150	68	47	42	217
55°	145	87	48	35	33	132
65°	66	44	29	24	21	65
75°	14	11	10	9	8	17
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°	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8
2.5°	236.6	236.6	236.6	234.1	234.1	230.3	227.8	224.0	221.5	217.8	216.5
5°	255.5	255.5	253.0	250.5	246.7	241.7	235.4	229.1	221.5	215.2	212.7
7.5°	274.4	275.7	271.9	266.8	259.3	250.5	241.7	231.6	220.3	211.5	206.4
10°	294.5	294.5	289.5	281.9	270.6	258.0	244.2	230.3	216.5	203.9	198.9
12.5°	314.7	313.4	307.1	295.8	281.9	264.3	245.4	227.8	211.5	196.4	188.8
15°	333.6	333.6	324.7	310.9	290.8	268.1	245.4	222.8	203.9	186.3	178.7
17.5°	355.0	355.0	343.6	322.2	297.1	268.1	241.7	216.5	195.1	176.2	167.4
20°	378.9	377.6	361.2	332.3	299.6	266.8	236.6	208.9	185.0	164.9	157.3
22.5°	396.5	395.2	376.3	341.1	300.8	263.1	227.8	198.9	175.0	154.8	146.0
25°	412.8	410.3	388.9	344.9	298.3	255.5	219.0	187.5	164.9	144.7	135.9
27.5°	422.9	421.7	397.7	343.6	292.0	245.4	207.7	177.5	153.6	133.4	125.9
30°	425.4	426.7	397.7	337.3	281.9	235.4	196.4	166.1	142.2	124.6	115.8
31°	425.4	426.7	395.2	333.6	278.2	230.3	191.3	162.4	137.2	119.6	112.0
32.5°	420.4	417.9	391.5	327.3	269.4	221.5	185.0	156.1	130.9	113.3	107.0
35°	397.7	399.0	378.9	313.4	256.8	208.9	172.4	143.5	119.6	104.5	98.2
37.5°	385.2	385.2	348.7	294.5	242.9	197.6	157.3	129.6	109.5	95.7	89.4
40°	358.7	355.0	321.0	274.4	226.6	183.8	148.5	120.8	100.7	86.8	81.8
42.5°	321.0	317.2	290.8	256.8	205.2	166.1	141.0	107.0	90.6	79.3	74.3
45°	280.7	278.2	258.0	226.6	185.0	149.8	122.1	98.2	83.1	71.7	68.0
47.5°	244.2	240.4	225.3	201.4	167.4	134.7	105.7	88.1	74.3	65.5	62.9
50°	208.9	207.7	195.1	176.2	148.5	117.1	93.1	78.0	68.0	60.4	56.6
52.5°	176.2	173.7	167.4	152.3	129.6	102.0	81.8	69.2	60.4	55.4	52.9
55°	144.7	144.7	138.5	128.4	110.8	86.8	71.7	61.7	54.1	50.3	47.8
57.5°	119.6	119.6	114.5	108.2	91.9	74.3	62.9	54.1	49.1	45.3	42.8
60°	98.2	98.2	94.4	88.1	76.8	62.9	54.1	47.8	44.1	40.3	39.0
62.5°	81.8	80.6	78.0	71.7	62.9	52.9	46.6	41.5	37.8	35.2	34.0
65°	65.5	64.2	61.7	56.6	50.3	44.1	39.0	35.2	32.7	30.2	28.9
67.5°	50.3	50.3	47.8	44.1	39.0	35.2	31.5	28.9	26.4	25.2	23.9
70°	36.5	36.5	35.2	32.7	28.9	26.4	23.9	22.7	21.4	20.1	18.9
72.5°	25.2	25.2	23.9	22.7	20.1	18.9	16.4	16.4	15.1	15.1	13.8
75°	13.8	13.8	13.8	12.6	12.6	11.3	11.3	11.3	10.1	10.1	10.1
77.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
80°	1.3	1.3	1.3	1.3	2.5	2.5	2.5	2.5	3.8	3.8	3.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3
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°	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8
2.5°	215.2	211.5	208.9	207.7	203.9	202.6	201.4	200.1	200.1	200.1
5°	210.2	203.9	197.6	193.8	188.8	186.3	183.8	182.5	181.3	181.3
7.5°	201.4	193.8	186.3	180.0	175.0	169.9	167.4	164.9	164.9	163.6
10°	192.6	182.5	173.7	164.9	159.9	153.6	151.0	148.5	147.3	147.3
12.5°	182.5	169.9	159.9	152.3	144.7	139.7	135.9	133.4	132.2	132.2
15°	171.2	158.6	147.3	139.7	132.2	125.9	122.1	119.6	118.3	118.3
17.5°	159.9	147.3	134.7	127.1	119.6	113.3	110.8	108.2	107.0	105.7
20°	149.8	134.7	124.6	114.5	108.2	103.2	99.4	96.9	95.7	95.7
22.5°	138.5	124.6	113.3	105.7	99.4	94.4	89.4	88.1	86.8	86.8
25°	127.1	114.5	104.5	96.9	89.4	85.6	81.8	79.3	79.3	78.0
27.5°	118.3	105.7	95.7	88.1	83.1	78.0	75.5	73.0	71.7	71.7
30°	108.2	96.9	88.1	81.8	75.5	71.7	69.2	66.7	66.7	66.7
31°	105.7	94.4	85.6	78.0	73.0	69.2	66.7	65.5	64.2	64.2
32.5°	99.4	89.4	80.6	74.3	69.2	65.5	62.9	61.7	61.7	60.4
35°	91.9	81.8	74.3	68.0	64.2	60.4	57.9	56.6	56.6	56.6
37.5°	84.3	75.5	68.0	62.9	59.2	55.4	54.1	51.6	51.6	51.6
40°	76.8	69.2	62.9	57.9	54.1	51.6	50.3	49.1	47.8	47.8
42.5°	70.5	62.9	57.9	54.1	50.3	47.8	46.6	45.3	45.3	44.1
45°	64.2	57.9	54.1	50.3	46.6	45.3	44.1	42.8	41.5	41.5
47.5°	59.2	54.1	49.1	46.6	44.1	41.5	40.3	40.3	39.0	39.0
50°	54.1	49.1	45.3	42.8	40.3	39.0	37.8	37.8	36.5	36.5
52.5°	50.3	45.3	42.8	40.3	37.8	36.5	35.2	35.2	34.0	34.0
55°	45.3	41.5	39.0	37.8	35.2	34.0	32.7	31.5	31.5	32.7
57.5°	41.5	39.0	36.5	35.2	32.7	31.5	30.2	30.2	28.9	30.2
60°	37.8	35.2	32.7	31.5	30.2	28.9	27.7	26.4	26.4	26.4
62.5°	34.0	31.5	30.2	27.7	26.4	26.4	25.2	25.2	25.2	23.9
65°	28.9	27.7	26.4	25.2	23.9	22.7	22.7	21.4	21.4	21.4
67.5°	23.9	22.7	21.4	21.4	20.1	18.9	18.9	18.9	18.9	17.6
70°	18.9	17.6	17.6	16.4	16.4	16.4	15.1	15.1	15.1	15.1
72.5°	13.8	13.8	12.6	12.6	12.6	12.6	11.3	11.3	11.3	11.3
75°	10.1	10.1	10.1	8.8	8.8	8.8	7.6	7.6	7.6	7.6
77.5°	6.3	6.3	6.3	6.3	6.3	5.0	5.0	5.0	5.0	5.0
80°	3.8	3.8	3.8	3.8	2.5	2.5	2.5	2.5	2.5	1.3
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	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)