

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: P1446839

Luminaire Tested: P3ART13R709827DE010 E3LCWW1GPH

Issue Date: 5/8/2026

**Test Information**

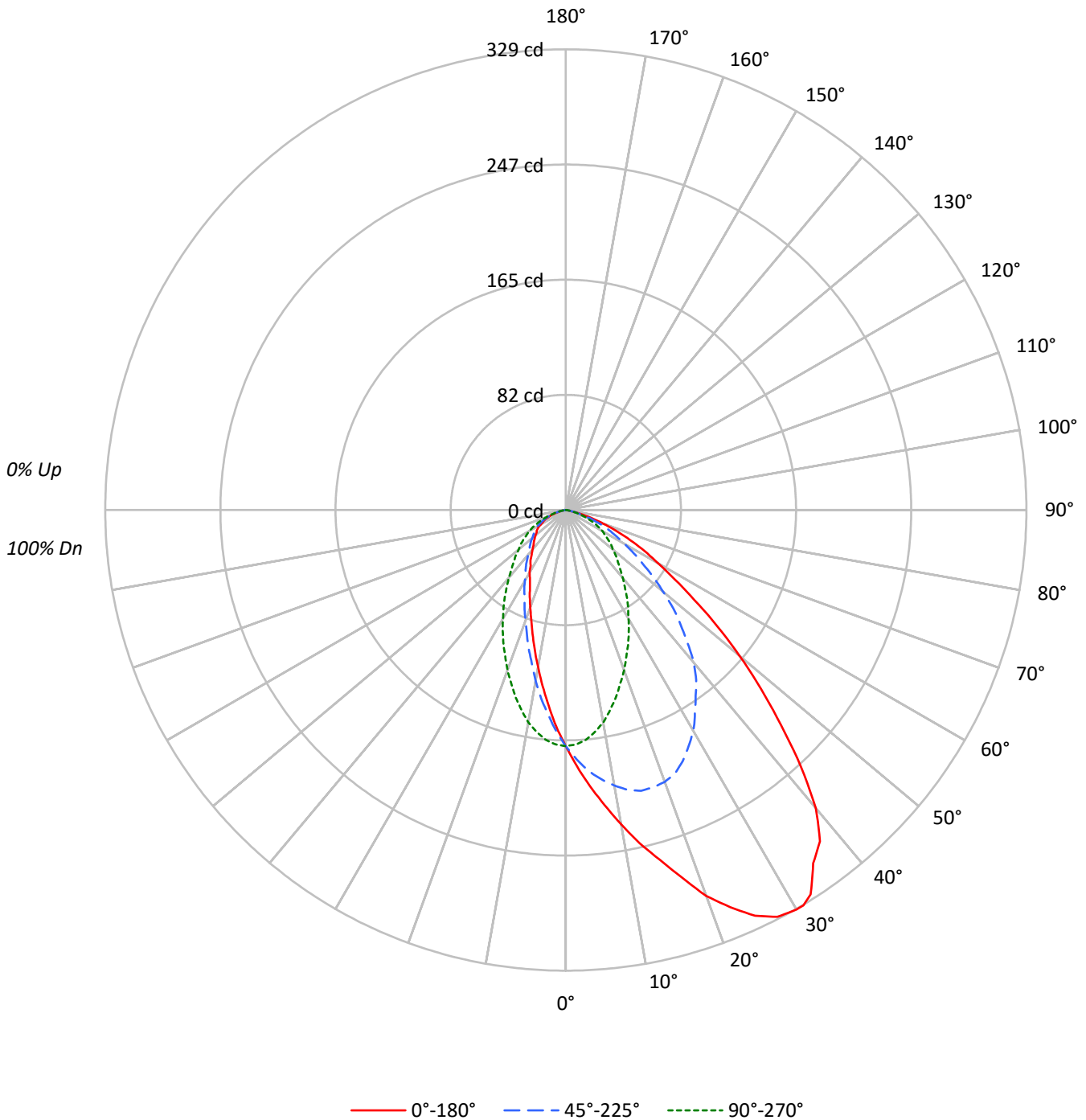
Test Method: LM-79-2019  
Report Number: P1446839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709827DE010 E3LCWW1GPH  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , E3LCWW1GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 343.0 lumens  
Efficiency: N/A  
Efficacy: 23.7 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): 14.5  
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
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88		88
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76		76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66		66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58		58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51		51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46		46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41		41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37		37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34		34
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31		31

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

	0°	45°	90°	135°	180°
0°	36971	36971	36971	36971	36971
5°	43539	41184	36253	32181	30883
10°	50767	44488	34290	27566	25384
15°	58638	47129	31419	23224	20795
20°	68443	48211	28422	19555	17292
25°	77351	47858	25477	16743	14614
30°	83405	46134	22712	14812	13091
35°	82449	43313	20345	13304	11752
40°	79492	40733	18120	11994	10591
45°	67387	35973	16312	11195	9986
50°	55196	30907	14976	10644	9654
55°	42856	25691	14145	10437	9672
60°	33331	21358	13245	10262	8991
65°	26306	17693	11623	9599	8613
70°	18144	13143	9361	8142	7501
75°	9065	7456	6608	5761	4914
80°	1263	2399	3662	2399	1263
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 67387 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.8	4.6
10°-20°	43.9	12.8
20°-30°	64.7	18.9
30°-40°	72.6	21.2
40°-50°	63.8	18.6
50°-60°	45.7	13.3
60°-70°	27.0	7.9
70°-80°	9.1	2.6
80°-90°	0.4	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°	124.4	36.3
0°-40°	197.0	57.4
0°-60°	306.5	89.3
0°-90°	343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	343.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	169	169	169	169	169	
5°	198	187	165	146	140	20
15°	258	208	138	102	92	74
25°	320	198	105	69	60	147
35°	308	162	76	50	44	193
45°	217	116	53	36	32	168
55°	112	67	37	27	25	102
65°	51	34	22	18	17	51
75°	11	9	8	7	6	13
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°	168.6	168.6	168.6	168.6	168.6	168.6	168.6	168.6	168.6	168.6	168.6
2.5°	183.2	183.2	183.2	181.3	181.3	178.3	176.4	173.5	171.5	168.6	167.6
5°	197.8	197.8	195.9	193.9	191.0	187.1	182.2	177.4	171.5	166.6	164.7
7.5°	212.5	213.4	210.5	206.6	200.8	193.9	187.1	179.3	170.5	163.7	159.8
10°	228.0	228.0	224.1	218.3	209.5	199.8	189.1	178.3	167.6	157.9	154.0
12.5°	243.6	242.7	237.8	229.0	218.3	204.7	190.0	176.4	163.7	152.0	146.2
15°	258.3	258.3	251.4	240.7	225.1	207.6	190.0	172.5	157.9	144.2	138.4
17.5°	274.8	274.8	266.1	249.5	230.0	207.6	187.1	167.6	151.1	136.4	129.6
20°	293.3	292.4	279.7	257.3	231.9	206.6	183.2	161.8	143.3	127.7	121.8
22.5°	307.0	306.0	291.4	264.1	232.9	203.7	176.4	154.0	135.5	119.9	113.0
25°	319.7	317.7	301.1	267.0	231.0	197.8	169.6	145.2	127.7	112.1	105.3
27.5°	327.5	326.5	308.0	266.1	226.1	190.0	160.8	137.4	118.9	103.3	97.5
30°	329.4	330.4	308.0	261.2	218.3	182.2	152.0	128.6	110.1	96.5	89.7
31°	329.4	330.4	306.0	258.3	215.4	178.3	148.1	125.7	106.2	92.6	86.7
32.5°	325.5	323.6	303.1	253.4	208.6	171.5	143.3	120.8	101.4	87.7	82.8
35°	308.0	308.9	293.3	242.7	198.8	161.8	133.5	111.1	92.6	80.9	76.0
37.5°	298.2	298.2	270.0	228.0	188.1	153.0	121.8	100.4	84.8	74.1	69.2
40°	277.7	274.8	248.5	212.5	175.4	142.3	115.0	93.6	78.0	67.2	63.3
42.5°	248.5	245.6	225.1	198.8	158.9	128.6	109.2	82.8	70.2	61.4	57.5
45°	217.3	215.4	199.8	175.4	143.3	116.0	94.5	76.0	64.3	55.5	52.6
47.5°	189.1	186.1	174.4	155.9	129.6	104.3	81.9	68.2	57.5	50.7	48.7
50°	161.8	160.8	151.1	136.4	115.0	90.6	72.1	60.4	52.6	46.8	43.9
52.5°	136.4	134.5	129.6	117.9	100.4	78.9	63.3	53.6	46.8	42.9	40.9
55°	112.1	112.1	107.2	99.4	85.8	67.2	55.5	47.8	41.9	39.0	37.0
57.5°	92.6	92.6	88.7	83.8	71.1	57.5	48.7	41.9	38.0	35.1	33.1
60°	76.0	76.0	73.1	68.2	59.4	48.7	41.9	37.0	34.1	31.2	30.2
62.5°	63.3	62.4	60.4	55.5	48.7	40.9	36.1	32.2	29.2	27.3	26.3
65°	50.7	49.7	47.8	43.9	39.0	34.1	30.2	27.3	25.3	23.4	22.4
67.5°	39.0	39.0	37.0	34.1	30.2	27.3	24.4	22.4	20.5	19.5	18.5
70°	28.3	28.3	27.3	25.3	22.4	20.5	18.5	17.5	16.6	15.6	14.6
72.5°	19.5	19.5	18.5	17.5	15.6	14.6	12.7	12.7	11.7	11.7	10.7
75°	10.7	10.7	10.7	9.7	9.7	8.8	8.8	8.8	7.8	7.8	7.8
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
80°	1.0	1.0	1.0	1.0	1.9	1.9	1.9	1.9	2.9	2.9	2.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
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°	168.6	168.6	168.6	168.6	168.6	168.6	168.6	168.6	168.6	168.6
2.5°	166.6	163.7	161.8	160.8	157.9	156.9	155.9	155.0	155.0	155.0
5°	162.8	157.9	153.0	150.1	146.2	144.2	142.3	141.3	140.3	140.3
7.5°	155.9	150.1	144.2	139.4	135.5	131.6	129.6	127.7	127.7	126.7
10°	149.1	141.3	134.5	127.7	123.8	118.9	116.9	115.0	114.0	114.0
12.5°	141.3	131.6	123.8	117.9	112.1	108.2	105.3	103.3	102.3	102.3
15°	132.5	122.8	114.0	108.2	102.3	97.5	94.5	92.6	91.6	91.6
17.5°	123.8	114.0	104.3	98.4	92.6	87.7	85.8	83.8	82.8	81.9
20°	116.0	104.3	96.5	88.7	83.8	79.9	77.0	75.0	74.1	74.1
22.5°	107.2	96.5	87.7	81.9	77.0	73.1	69.2	68.2	67.2	67.2
25°	98.4	88.7	80.9	75.0	69.2	66.3	63.3	61.4	61.4	60.4
27.5°	91.6	81.9	74.1	68.2	64.3	60.4	58.5	56.5	55.5	55.5
30°	83.8	75.0	68.2	63.3	58.5	55.5	53.6	51.7	51.7	51.7
31°	81.9	73.1	66.3	60.4	56.5	53.6	51.7	50.7	49.7	49.7
32.5°	77.0	69.2	62.4	57.5	53.6	50.7	48.7	47.8	47.8	46.8
35°	71.1	63.3	57.5	52.6	49.7	46.8	44.8	43.9	43.9	43.9
37.5°	65.3	58.5	52.6	48.7	45.8	42.9	41.9	40.0	40.0	40.0
40°	59.4	53.6	48.7	44.8	41.9	40.0	39.0	38.0	37.0	37.0
42.5°	54.6	48.7	44.8	41.9	39.0	37.0	36.1	35.1	35.1	34.1
45°	49.7	44.8	41.9	39.0	36.1	35.1	34.1	33.1	32.2	32.2
47.5°	45.8	41.9	38.0	36.1	34.1	32.2	31.2	31.2	30.2	30.2
50°	41.9	38.0	35.1	33.1	31.2	30.2	29.2	29.2	28.3	28.3
52.5°	39.0	35.1	33.1	31.2	29.2	28.3	27.3	27.3	26.3	26.3
55°	35.1	32.2	30.2	29.2	27.3	26.3	25.3	24.4	24.4	25.3
57.5°	32.2	30.2	28.3	27.3	25.3	24.4	23.4	23.4	22.4	23.4
60°	29.2	27.3	25.3	24.4	23.4	22.4	21.4	20.5	20.5	20.5
62.5°	26.3	24.4	23.4	21.4	20.5	20.5	19.5	19.5	19.5	18.5
65°	22.4	21.4	20.5	19.5	18.5	17.5	17.5	16.6	16.6	16.6
67.5°	18.5	17.5	16.6	16.6	15.6	14.6	14.6	14.6	14.6	13.6
70°	14.6	13.6	13.6	12.7	12.7	12.7	11.7	11.7	11.7	11.7
72.5°	10.7	10.7	9.7	9.7	9.7	9.7	8.8	8.8	8.8	8.8
75°	7.8	7.8	7.8	6.8	6.8	6.8	5.8	5.8	5.8	5.8
77.5°	4.9	4.9	4.9	4.9	4.9	3.9	3.9	3.9	3.9	3.9
80°	2.9	2.9	2.9	2.9	1.9	1.9	1.9	1.9	1.9	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	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)