

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: P1446163

Luminaire Tested: P3ART09R709040DE010 E3LCWW1GPH

Issue Date: 5/8/2026

**Test Information**

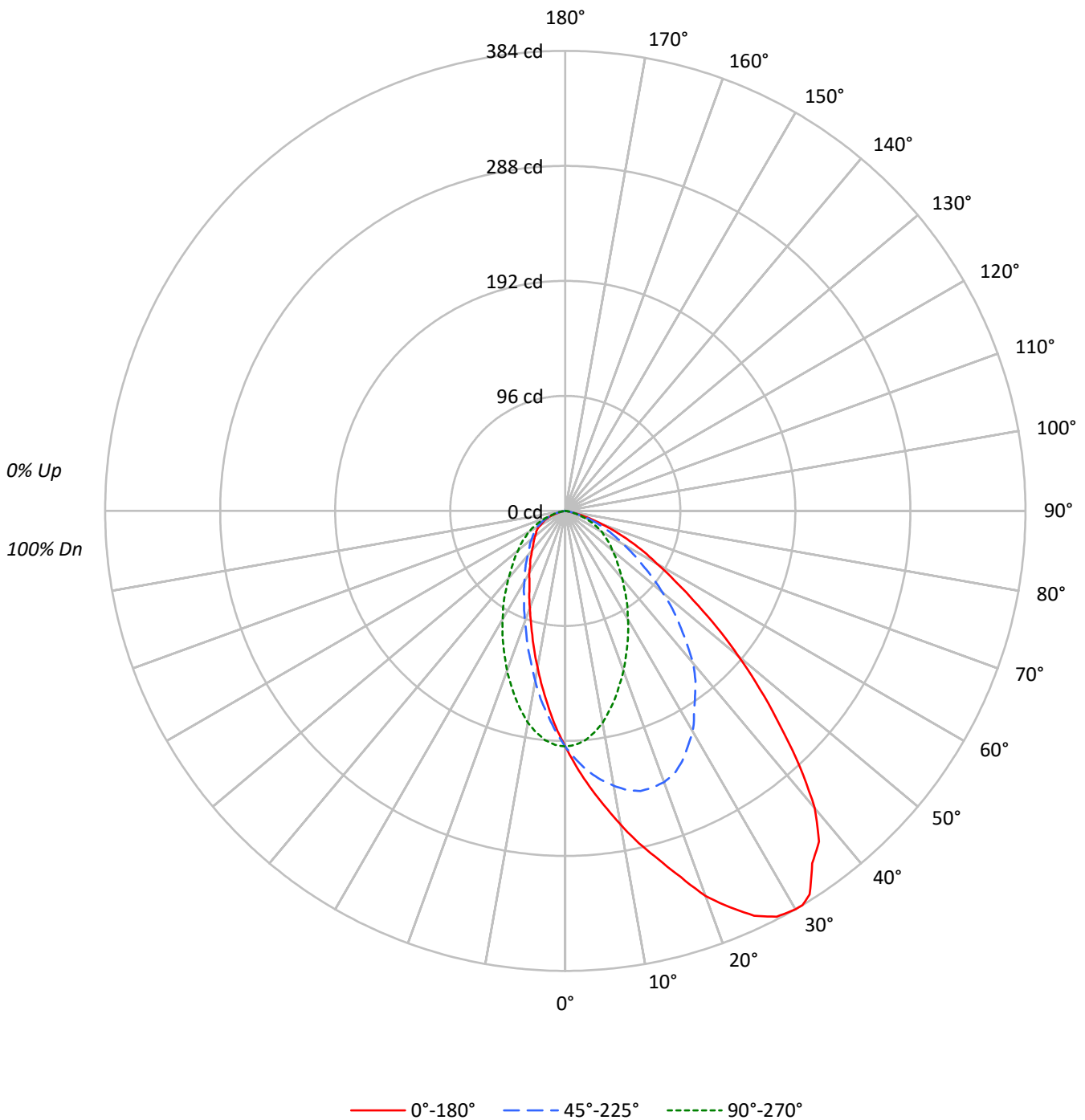
Test Method: LM-79-2019  
Report Number: P1446163  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART09R709040DE010 E3LCWW1GPH  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , E3LCWW1GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 400.0 lumens  
Efficiency: N/A  
Efficacy: 36.0 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): 11.1  
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°	43111	43111	43111	43111	43111
5°	50781	48030	42285	37530	36033
10°	59206	51881	39990	32130	29614
15°	68377	54961	36640	27083	24245
20°	79830	56215	33160	22799	20162
25°	90199	55818	29687	19525	17057
30°	97255	53806	26485	17268	15243
35°	96128	50514	23718	15526	13679
40°	92717	47489	21154	13998	12366
45°	78582	41927	19041	13056	11629
50°	64373	36059	17432	12418	11258
55°	49967	29973	16516	12157	11278
60°	38857	24910	15437	11973	10482
65°	30665	20651	13542	11207	10014
70°	21157	15323	10899	9489	8719
75°	10590	8642	7710	6778	5761
80°	1389	2904	4293	2904	1389
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 78582 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.4	4.6
10°-20°	51.2	12.8
20°-30°	75.5	18.9
30°-40°	84.6	21.2
40°-50°	74.4	18.6
50°-60°	53.2	13.3
60°-70°	31.5	7.9
70°-80°	10.6	2.6
80°-90°	0.5	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°	145.1	36.3
0°-40°	229.7	57.4
0°-60°	357.4	89.3
0°-90°	400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	400.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	197	197	197	197	197	
5°	231	218	192	170	164	23
15°	301	242	161	119	107	87
25°	373	231	123	81	70	171
35°	359	189	89	58	51	226
45°	253	135	61	42	38	196
55°	131	78	43	32	30	119
65°	59	40	26	22	19	59
75°	12	10	9	8	7	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°	196.6	196.6	196.6	196.6	196.6	196.6	196.6	196.6	196.6	196.6	196.6
2.5°	213.7	213.7	213.7	211.4	211.4	208.0	205.7	202.3	200.0	196.6	195.5
5°	230.7	230.7	228.4	226.2	222.8	218.2	212.5	206.8	200.0	194.3	192.1
7.5°	247.8	248.9	245.5	240.9	234.1	226.2	218.2	209.1	198.9	190.9	186.4
10°	265.9	265.9	261.4	254.6	244.4	233.0	220.5	208.0	195.5	184.1	179.6
12.5°	284.1	283.0	277.3	267.1	254.6	238.7	221.6	205.7	190.9	177.3	170.5
15°	301.2	301.2	293.2	280.7	262.5	242.1	221.6	201.2	184.1	168.2	161.4
17.5°	320.5	320.5	310.3	290.9	268.2	242.1	218.2	195.5	176.2	159.1	151.2
20°	342.1	341.0	326.2	300.0	270.5	240.9	213.7	188.7	167.1	148.9	142.1
22.5°	358.0	356.9	339.8	308.0	271.6	237.5	205.7	179.6	158.0	139.8	131.8
25°	372.8	370.5	351.2	311.4	269.4	230.7	197.8	169.3	148.9	130.7	122.7
27.5°	381.9	380.7	359.1	310.3	263.7	221.6	187.5	160.2	138.7	120.5	113.7
30°	384.1	385.3	359.1	304.6	254.6	212.5	177.3	150.0	128.4	112.5	104.6
31°	384.1	385.3	356.9	301.2	251.2	208.0	172.7	146.6	123.9	108.0	101.1
32.5°	379.6	377.3	353.5	295.5	243.2	200.0	167.1	140.9	118.2	102.3	96.6
35°	359.1	360.3	342.1	283.0	231.8	188.7	155.7	129.6	108.0	94.3	88.6
37.5°	347.8	347.8	314.8	265.9	219.3	178.4	142.1	117.1	98.9	86.4	80.7
40°	323.9	320.5	289.8	247.8	204.6	165.9	134.1	109.1	90.9	78.4	73.9
42.5°	289.8	286.4	262.5	231.8	185.3	150.0	127.3	96.6	81.8	71.6	67.1
45°	253.4	251.2	233.0	204.6	167.1	135.2	110.2	88.6	75.0	64.8	61.4
47.5°	220.5	217.1	203.4	181.8	151.2	121.6	95.5	79.6	67.1	59.1	56.8
50°	188.7	187.5	176.2	159.1	134.1	105.7	84.1	70.5	61.4	54.6	51.1
52.5°	159.1	156.8	151.2	137.5	117.1	92.1	73.9	62.5	54.6	50.0	47.7
55°	130.7	130.7	125.0	115.9	100.0	78.4	64.8	55.7	48.9	45.5	43.2
57.5°	108.0	108.0	103.4	97.7	83.0	67.1	56.8	48.9	44.3	40.9	38.6
60°	88.6	88.6	85.2	79.6	69.3	56.8	48.9	43.2	39.8	36.4	35.2
62.5°	73.9	72.7	70.5	64.8	56.8	47.7	42.1	37.5	34.1	31.8	30.7
65°	59.1	58.0	55.7	51.1	45.5	39.8	35.2	31.8	29.5	27.3	26.1
67.5°	45.5	45.5	43.2	39.8	35.2	31.8	28.4	26.1	23.9	22.7	21.6
70°	33.0	33.0	31.8	29.5	26.1	23.9	21.6	20.5	19.3	18.2	17.0
72.5°	22.7	22.7	21.6	20.5	18.2	17.0	14.8	14.8	13.6	13.6	12.5
75°	12.5	12.5	12.5	11.4	11.4	10.2	10.2	10.2	9.1	9.1	9.1
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
80°	1.1	1.1	1.1	1.1	2.3	2.3	2.3	2.3	3.4	3.4	3.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
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°	196.6	196.6	196.6	196.6	196.6	196.6	196.6	196.6	196.6	196.6
2.5°	194.3	190.9	188.7	187.5	184.1	183.0	181.8	180.7	180.7	180.7
5°	189.8	184.1	178.4	175.0	170.5	168.2	165.9	164.8	163.7	163.7
7.5°	181.8	175.0	168.2	162.5	158.0	153.4	151.2	148.9	148.9	147.7
10°	173.9	164.8	156.8	148.9	144.3	138.7	136.4	134.1	133.0	133.0
12.5°	164.8	153.4	144.3	137.5	130.7	126.2	122.7	120.5	119.3	119.3
15°	154.6	143.2	133.0	126.2	119.3	113.7	110.2	108.0	106.8	106.8
17.5°	144.3	133.0	121.6	114.8	108.0	102.3	100.0	97.7	96.6	95.5
20°	135.2	121.6	112.5	103.4	97.7	93.2	89.8	87.5	86.4	86.4
22.5°	125.0	112.5	102.3	95.5	89.8	85.2	80.7	79.6	78.4	78.4
25°	114.8	103.4	94.3	87.5	80.7	77.3	73.9	71.6	71.6	70.5
27.5°	106.8	95.5	86.4	79.6	75.0	70.5	68.2	65.9	64.8	64.8
30°	97.7	87.5	79.6	73.9	68.2	64.8	62.5	60.2	60.2	60.2
31°	95.5	85.2	77.3	70.5	65.9	62.5	60.2	59.1	58.0	58.0
32.5°	89.8	80.7	72.7	67.1	62.5	59.1	56.8	55.7	55.7	54.6
35°	83.0	73.9	67.1	61.4	58.0	54.6	52.3	51.1	51.1	51.1
37.5°	76.1	68.2	61.4	56.8	53.4	50.0	48.9	46.6	46.6	46.6
40°	69.3	62.5	56.8	52.3	48.9	46.6	45.5	44.3	43.2	43.2
42.5°	63.6	56.8	52.3	48.9	45.5	43.2	42.1	40.9	40.9	39.8
45°	58.0	52.3	48.9	45.5	42.1	40.9	39.8	38.6	37.5	37.5
47.5°	53.4	48.9	44.3	42.1	39.8	37.5	36.4	36.4	35.2	35.2
50°	48.9	44.3	40.9	38.6	36.4	35.2	34.1	34.1	33.0	33.0
52.5°	45.5	40.9	38.6	36.4	34.1	33.0	31.8	31.8	30.7	30.7
55°	40.9	37.5	35.2	34.1	31.8	30.7	29.5	28.4	28.4	29.5
57.5°	37.5	35.2	33.0	31.8	29.5	28.4	27.3	27.3	26.1	27.3
60°	34.1	31.8	29.5	28.4	27.3	26.1	25.0	23.9	23.9	23.9
62.5°	30.7	28.4	27.3	25.0	23.9	23.9	22.7	22.7	22.7	21.6
65°	26.1	25.0	23.9	22.7	21.6	20.5	20.5	19.3	19.3	19.3
67.5°	21.6	20.5	19.3	19.3	18.2	17.0	17.0	17.0	17.0	15.9
70°	17.0	15.9	15.9	14.8	14.8	14.8	13.6	13.6	13.6	13.6
72.5°	12.5	12.5	11.4	11.4	11.4	11.4	10.2	10.2	10.2	10.2
75°	9.1	9.1	9.1	8.0	8.0	8.0	6.8	6.8	6.8	6.8
77.5°	5.7	5.7	5.7	5.7	5.7	4.5	4.5	4.5	4.5	4.5
80°	3.4	3.4	3.4	3.4	2.3	2.3	2.3	2.3	2.3	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	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)