

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: P1446811

Luminaire Tested: P3ART09R709740DE010 E3CLSWW1MW

Issue Date: 5/8/2026

**Test Information**

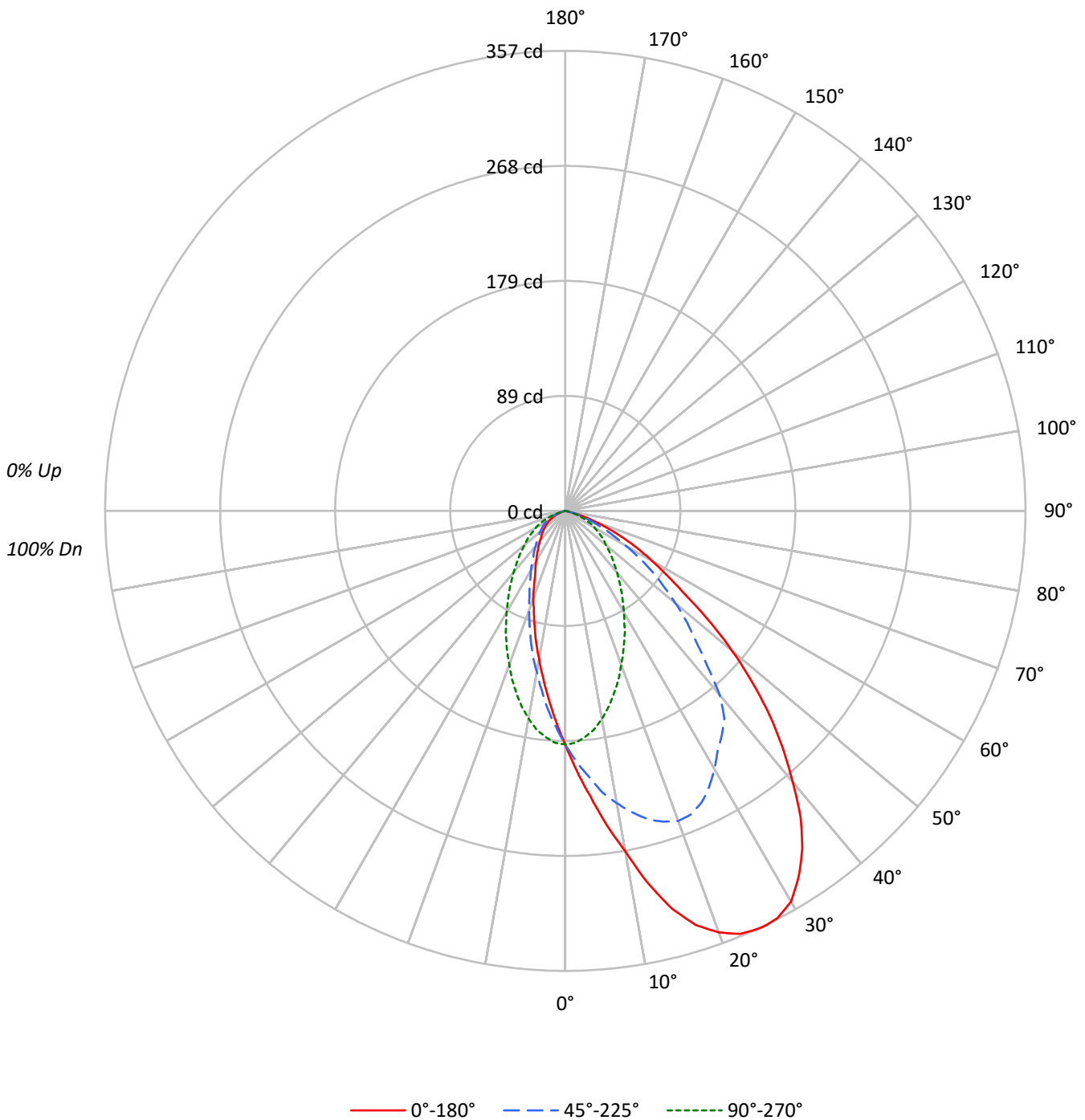
Test Method: LM-79-2019  
Report Number: P1446811  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART09R709740DE010 E3CLSWW1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , E3CLSWW1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 361.0 lumens  
Efficiency: N/A  
Efficacy: 32.5 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.85 / 1.23  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 11.1  
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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	91	91	91	89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	80	80	80	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	70	70	70	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	62	62	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	55	55	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	49	49	49	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	44	44	44	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	40	40	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	37	37	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	34	34	34	32

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

	0°	45°	90°	135°	180°
0°	39734	39734	39734	39734	39734
5°	48910	45520	38763	34030	32225
10°	59741	51302	36472	28278	25985
15°	72532	56255	33235	23473	20931
20°	81230	59739	29636	19112	16965
25°	86449	60439	26252	15848	13380
30°	88672	58591	23067	13470	11419
35°	85795	56724	20291	11511	9878
40°	78547	53328	17891	10248	8788
45°	69527	44439	15878	9520	7939
50°	57619	38071	13987	8733	7335
55°	43468	31693	12922	8220	6652
60°	34120	23814	11666	7631	5833
65°	25476	17538	10118	6382	4774
70°	16413	11156	7245	4616	2629
75°	6947	6100	3474	1694	847
80°	1263	1263	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 69527 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.2	4.8
10°-20°	49.5	13.7
20°-30°	72.3	20.0
30°-40°	78.8	21.8
40°-50°	68.2	18.9
50°-60°	45.7	12.7
60°-70°	23.6	6.5
70°-80°	5.6	1.5
80°-90°	0.1	0.0
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°	139.0	38.5
0°-40°	217.8	60.3
0°-60°	331.8	91.9
0°-90°	361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	361.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	181	181	181	181	181	
5°	222	207	176	155	146	23
15°	320	248	146	103	92	90
25°	357	250	108	66	55	164
35°	320	212	76	43	37	198
45°	224	143	51	31	26	172
55°	114	83	34	22	17	105
65°	49	34	20	12	9	50
75°	8	7	4	2	1	11
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°	181.2	181.2	181.2	181.2	181.2	181.2	181.2	181.2	181.2	181.2	181.2
2.5°	201.7	200.7	200.7	198.6	196.6	194.5	191.5	188.4	185.3	182.3	180.2
5°	222.2	223.2	222.2	218.1	213.0	206.8	200.7	193.5	186.3	180.2	176.1
7.5°	245.7	245.7	242.7	237.5	230.4	220.1	209.9	197.6	186.3	176.1	171.0
10°	268.3	268.3	263.1	254.9	243.7	230.4	216.0	199.7	184.3	170.0	163.8
12.5°	295.9	294.9	288.7	275.4	259.0	239.6	220.1	199.7	181.2	163.8	155.6
15°	319.5	318.4	310.2	293.9	272.4	247.8	221.2	197.6	175.1	155.6	146.4
17.5°	336.9	334.8	325.6	308.2	283.6	252.9	222.2	193.5	167.9	146.4	137.2
20°	348.1	347.1	336.9	316.4	289.8	256.0	221.2	188.4	160.8	137.2	127.0
22.5°	355.3	353.2	343.0	320.5	289.8	254.9	217.1	181.2	151.5	128.0	117.7
25°	357.3	356.3	344.0	319.5	286.7	249.8	210.9	174.1	142.3	118.8	108.5
26°	357.3	356.3	344.0	318.4	284.6	246.8	207.8	171.0	139.2	114.7	105.5
27.5°	356.3	355.3	342.0	315.4	280.5	241.6	201.7	164.8	133.1	109.6	99.3
30°	350.2	348.1	334.8	308.2	271.3	231.4	191.5	155.6	123.9	100.3	91.1
32.5°	336.9	334.8	320.5	295.9	261.1	220.1	180.2	145.4	114.7	91.1	82.9
35°	320.5	318.4	304.1	280.5	246.8	211.9	167.9	134.1	104.4	84.0	75.8
37.5°	300.0	296.9	284.6	260.1	229.4	202.7	157.7	122.9	95.2	75.8	68.6
40°	274.4	273.4	262.1	239.6	208.9	186.3	151.5	122.9	87.0	68.6	62.5
42.5°	249.8	247.8	237.5	218.1	190.4	162.8	133.1	117.7	80.9	61.4	56.3
45°	224.2	222.2	213.0	196.6	171.0	143.3	143.3	101.4	69.6	56.3	51.2
47.5°	196.6	194.5	187.4	175.1	152.6	128.0	104.4	82.9	63.5	50.2	46.1
50°	168.9	170.0	163.8	151.5	134.1	111.6	90.1	69.6	54.3	45.1	41.0
52.5°	141.3	140.3	136.2	128.0	115.7	96.2	76.8	59.4	47.1	39.9	37.9
55°	113.7	114.7	112.6	107.5	97.3	82.9	64.5	51.2	42.0	35.8	33.8
57.5°	94.2	95.2	91.1	88.1	79.9	67.6	53.2	43.0	35.8	31.7	29.7
60°	77.8	78.8	75.8	71.7	65.5	54.3	43.0	35.8	31.7	28.7	26.6
62.5°	63.5	62.5	60.4	56.3	51.2	43.0	34.8	29.7	26.6	24.6	23.5
65°	49.1	49.1	47.1	44.0	39.9	33.8	27.6	24.6	22.5	20.5	19.5
67.5°	36.9	36.9	34.8	32.8	28.7	24.6	21.5	19.5	18.4	16.4	15.4
70°	25.6	25.6	24.6	23.5	20.5	17.4	16.4	14.3	13.3	12.3	11.3
72.5°	16.4	16.4	16.4	14.3	13.3	11.3	11.3	10.2	9.2	8.2	8.2
75°	8.2	9.2	8.2	8.2	7.2	7.2	6.1	6.1	5.1	5.1	4.1
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	2.0	2.0	2.0	2.0	2.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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°	181.2	181.2	181.2	181.2	181.2	181.2	181.2	181.2	181.2	181.2
2.5°	178.2	175.1	173.0	170.0	167.9	165.9	164.8	163.8	163.8	163.8
5°	173.0	167.9	162.8	157.7	154.6	151.5	148.5	147.4	146.4	146.4
7.5°	166.9	158.7	151.5	145.4	140.3	137.2	134.1	132.1	131.1	131.1
10°	158.7	148.5	140.3	132.1	127.0	122.9	120.8	117.7	117.7	116.7
12.5°	149.5	137.2	128.0	120.8	115.7	110.6	107.5	105.5	104.4	104.4
15°	139.2	127.0	116.7	108.5	103.4	98.3	95.2	93.2	92.2	92.2
17.5°	129.0	115.7	105.5	97.3	92.2	87.0	84.0	81.9	81.9	80.9
20°	118.8	105.5	95.2	87.0	81.9	77.8	74.7	72.7	71.7	72.7
22.5°	109.6	96.2	86.0	78.8	72.7	68.6	65.5	64.5	63.5	63.5
25°	99.3	87.0	77.8	70.6	65.5	61.4	58.4	57.3	56.3	55.3
26°	96.2	84.0	74.7	67.6	62.5	58.4	56.3	54.3	53.2	53.2
27.5°	92.2	78.8	70.6	63.5	58.4	55.3	52.2	51.2	50.2	50.2
30°	82.9	71.7	63.5	57.3	53.2	49.1	47.1	46.1	45.1	45.1
32.5°	75.8	64.5	57.3	52.2	48.1	45.1	43.0	41.0	41.0	41.0
35°	68.6	58.4	52.2	47.1	43.0	39.9	38.9	37.9	36.9	36.9
37.5°	62.5	53.2	47.1	43.0	39.9	36.9	34.8	33.8	33.8	33.8
40°	56.3	49.1	43.0	38.9	35.8	33.8	31.7	30.7	30.7	30.7
42.5°	51.2	44.0	39.9	35.8	32.8	30.7	29.7	28.7	27.6	27.6
45°	47.1	41.0	35.8	32.8	30.7	28.7	26.6	25.6	25.6	25.6
47.5°	42.0	37.9	32.8	29.7	27.6	25.6	24.6	23.5	23.5	23.5
50°	38.9	34.8	30.7	27.6	25.6	23.5	22.5	21.5	21.5	21.5
52.5°	34.8	31.7	28.7	25.6	23.5	21.5	20.5	19.5	19.5	19.5
55°	31.7	28.7	25.6	23.5	21.5	19.5	18.4	17.4	17.4	17.4
57.5°	28.7	25.6	23.5	21.5	19.5	18.4	16.4	16.4	15.4	15.4
60°	25.6	22.5	20.5	19.5	17.4	16.4	14.3	13.3	13.3	13.3
62.5°	21.5	20.5	18.4	16.4	14.3	13.3	12.3	11.3	11.3	11.3
65°	18.4	17.4	15.4	13.3	12.3	11.3	10.2	9.2	9.2	9.2
67.5°	15.4	13.3	12.3	11.3	10.2	9.2	8.2	7.2	6.1	7.2
70°	11.3	10.2	9.2	8.2	7.2	6.1	5.1	5.1	4.1	4.1
72.5°	7.2	6.1	6.1	5.1	4.1	4.1	3.1	3.1	2.0	2.0
75°	4.1	4.1	3.1	3.1	2.0	2.0	1.0	1.0	1.0	1.0
77.5°	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)