

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: P1446316

Luminaire Tested: P3ART13R709727DE010 E3CLSWW1MMS

Issue Date: 5/8/2026

**Test Information**

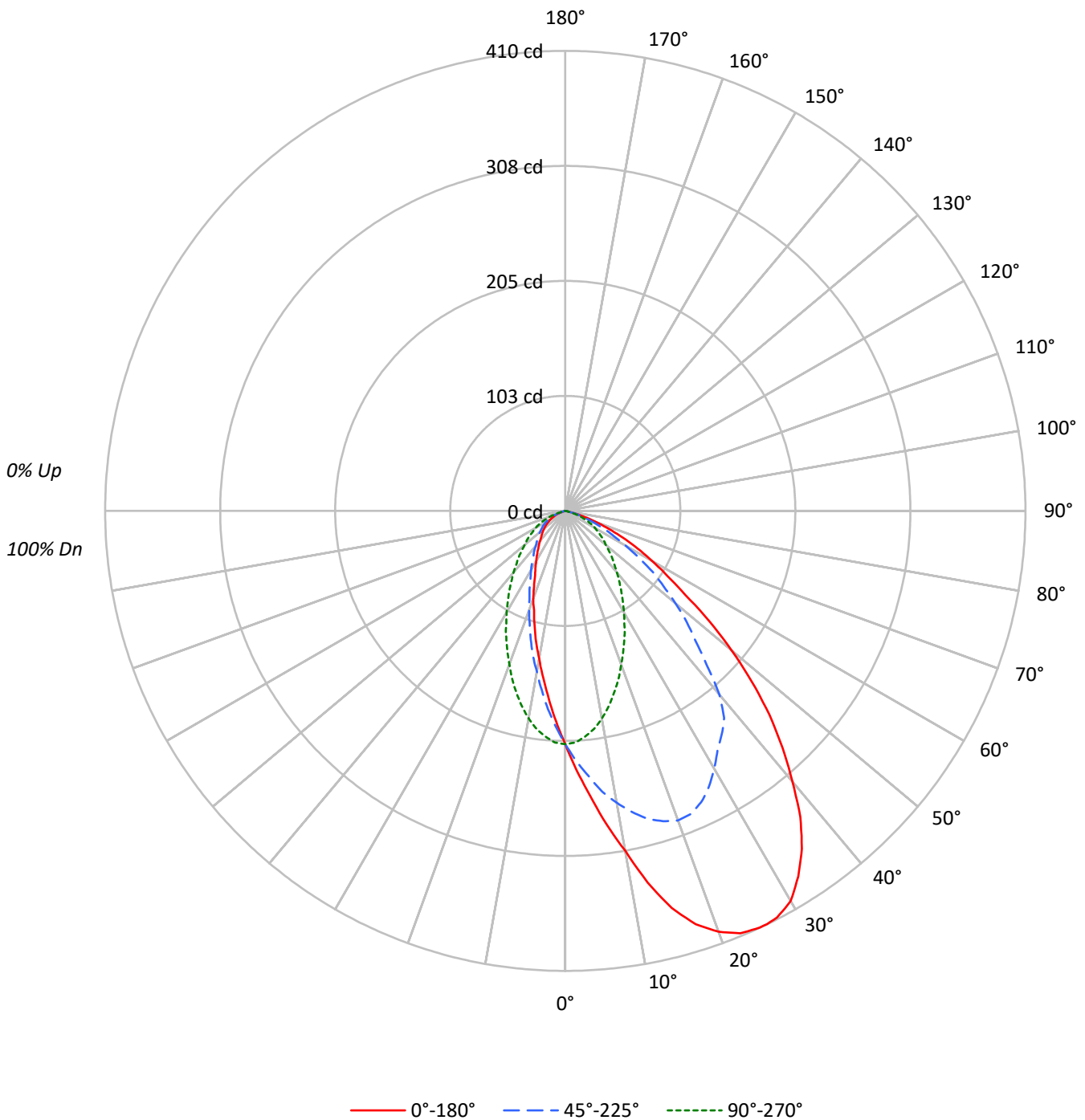
Test Method: LM-79-2019  
Report Number: P1446316  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709727DE010 E3CLSWW1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3CLSWW1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 414.0 lumens  
Efficiency: N/A  
Efficacy: 28.4 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): 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89	89	89	89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	78	78	78	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68	68	68	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60	60	60	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53	53	53	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47	47	47	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43	43	43	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39	39	39	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35	35	35	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	32	32	32

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

	0°	45°	90°	135°	180°
0°	45567	45567	45567	45567	45567
5°	56086	52212	44464	39027	36958
10°	68491	58828	41838	32420	29815
15°	83179	64518	38116	26924	23996
20°	93155	68513	33976	21912	19462
25°	99151	69319	30123	18170	15340
30°	101687	67200	26460	15471	13091
35°	98377	65076	23262	13197	11323
40°	90083	61172	20496	11765	10076
45°	79760	50982	18203	10916	9117
50°	66079	43666	16034	10030	8426
55°	49814	36357	14795	9443	7646
60°	39120	27279	13376	8771	6710
65°	29264	20080	11571	7316	5500
70°	18849	12823	8271	5257	3013
75°	7964	6947	3982	1949	1017
80°	1515	1515	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 79760 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.7	4.8
10°-20°	56.7	13.7
20°-30°	83.0	20.0
30°-40°	90.4	21.8
40°-50°	78.2	18.9
50°-60°	52.4	12.7
60°-70°	27.1	6.5
70°-80°	6.4	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°	159.4	38.5
0°-40°	249.8	60.3
0°-60°	380.5	91.9
0°-90°	414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	414.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	208	208	208	208	208	
5°	255	237	202	177	168	26
15°	366	284	168	119	106	104
25°	410	286	124	75	63	188
35°	368	243	87	49	42	228
45°	257	164	59	35	29	197
55°	130	95	39	25	20	121
65°	56	39	22	14	11	57
75°	9	8	5	2	1	12
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°	207.8	207.8	207.8	207.8	207.8	207.8	207.8	207.8	207.8	207.8	207.8
2.5°	231.3	230.1	230.1	227.8	225.4	223.1	219.6	216.1	212.5	209.0	206.7
5°	254.8	256.0	254.8	250.1	244.2	237.2	230.1	221.9	213.7	206.7	202.0
7.5°	281.8	281.8	278.3	272.4	264.2	252.5	240.7	226.6	213.7	202.0	196.1
10°	307.6	307.6	301.8	292.4	279.5	264.2	247.8	229.0	211.4	194.9	187.9
12.5°	339.3	338.2	331.1	315.9	297.1	274.8	252.5	229.0	207.8	187.9	178.5
15°	366.4	365.2	355.8	337.0	312.3	284.2	253.6	226.6	200.8	178.5	167.9
17.5°	386.3	384.0	373.4	353.4	325.3	290.0	254.8	221.9	192.6	167.9	157.3
20°	399.2	398.1	386.3	362.8	332.3	293.6	253.6	216.1	184.4	157.3	145.6
22.5°	407.5	405.1	393.4	367.5	332.3	292.4	248.9	207.8	173.8	146.8	135.0
25°	409.8	408.6	394.5	366.4	328.8	286.5	241.9	199.6	163.2	136.2	124.5
26°	409.8	408.6	394.5	365.2	326.4	283.0	238.4	196.1	159.7	131.5	120.9
27.5°	408.6	407.5	392.2	361.7	321.7	277.1	231.3	189.0	152.6	125.6	113.9
30°	401.6	399.2	384.0	353.4	311.2	265.4	219.6	178.5	142.1	115.1	104.5
32.5°	386.3	384.0	367.5	339.3	299.4	252.5	206.7	166.7	131.5	104.5	95.1
35°	367.5	365.2	348.7	321.7	283.0	243.1	192.6	153.8	119.8	96.3	86.9
37.5°	344.0	340.5	326.4	298.2	263.0	232.5	180.8	140.9	109.2	86.9	78.7
40°	314.7	313.5	300.6	274.8	239.5	213.7	173.8	140.9	99.8	78.7	71.6
42.5°	286.5	284.2	272.4	250.1	218.4	186.7	152.6	135.0	92.8	70.5	64.6
45°	257.2	254.8	244.2	225.4	196.1	164.4	164.4	116.2	79.8	64.6	58.7
47.5°	225.4	223.1	214.9	200.8	175.0	146.8	119.8	95.1	72.8	57.5	52.8
50°	193.7	194.9	187.9	173.8	153.8	128.0	103.3	79.8	62.2	51.7	47.0
52.5°	162.0	160.9	156.2	146.8	132.7	110.4	88.1	68.1	54.0	45.8	43.4
55°	130.3	131.5	129.2	123.3	111.6	95.1	74.0	58.7	48.1	41.1	38.7
57.5°	108.0	109.2	104.5	101.0	91.6	77.5	61.1	49.3	41.1	36.4	34.1
60°	89.2	90.4	86.9	82.2	75.1	62.2	49.3	41.1	36.4	32.9	30.5
62.5°	72.8	71.6	69.3	64.6	58.7	49.3	39.9	34.1	30.5	28.2	27.0
65°	56.4	56.4	54.0	50.5	45.8	38.7	31.7	28.2	25.8	23.5	22.3
67.5°	42.3	42.3	39.9	37.6	32.9	28.2	24.7	22.3	21.1	18.8	17.6
70°	29.4	29.4	28.2	27.0	23.5	20.0	18.8	16.4	15.3	14.1	12.9
72.5°	18.8	18.8	18.8	16.4	15.3	12.9	12.9	11.7	10.6	9.4	9.4
75°	9.4	10.6	9.4	9.4	8.2	8.2	7.0	7.0	5.9	5.9	4.7
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	2.3	2.3	2.3	2.3	2.3
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	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°	207.8	207.8	207.8	207.8	207.8	207.8	207.8	207.8	207.8	207.8
2.5°	204.3	200.8	198.4	194.9	192.6	190.2	189.0	187.9	187.9	187.9
5°	198.4	192.6	186.7	180.8	177.3	173.8	170.3	169.1	167.9	167.9
7.5°	191.4	182.0	173.8	166.7	160.9	157.3	153.8	151.5	150.3	150.3
10°	182.0	170.3	160.9	151.5	145.6	140.9	138.6	135.0	135.0	133.9
12.5°	171.4	157.3	146.8	138.6	132.7	126.8	123.3	120.9	119.8	119.8
15°	159.7	145.6	133.9	124.5	118.6	112.7	109.2	106.9	105.7	105.7
17.5°	148.0	132.7	120.9	111.6	105.7	99.8	96.3	93.9	93.9	92.8
20°	136.2	120.9	109.2	99.8	93.9	89.2	85.7	83.4	82.2	83.4
22.5°	125.6	110.4	98.6	90.4	83.4	78.7	75.1	74.0	72.8	72.8
25°	113.9	99.8	89.2	81.0	75.1	70.5	66.9	65.8	64.6	63.4
26°	110.4	96.3	85.7	77.5	71.6	66.9	64.6	62.2	61.1	61.1
27.5°	105.7	90.4	81.0	72.8	66.9	63.4	59.9	58.7	57.5	57.5
30°	95.1	82.2	72.8	65.8	61.1	56.4	54.0	52.8	51.7	51.7
32.5°	86.9	74.0	65.8	59.9	55.2	51.7	49.3	47.0	47.0	47.0
35°	78.7	66.9	59.9	54.0	49.3	45.8	44.6	43.4	42.3	42.3
37.5°	71.6	61.1	54.0	49.3	45.8	42.3	39.9	38.7	38.7	38.7
40°	64.6	56.4	49.3	44.6	41.1	38.7	36.4	35.2	35.2	35.2
42.5°	58.7	50.5	45.8	41.1	37.6	35.2	34.1	32.9	31.7	31.7
45°	54.0	47.0	41.1	37.6	35.2	32.9	30.5	29.4	29.4	29.4
47.5°	48.1	43.4	37.6	34.1	31.7	29.4	28.2	27.0	27.0	27.0
50°	44.6	39.9	35.2	31.7	29.4	27.0	25.8	24.7	24.7	24.7
52.5°	39.9	36.4	32.9	29.4	27.0	24.7	23.5	22.3	22.3	22.3
55°	36.4	32.9	29.4	27.0	24.7	22.3	21.1	20.0	20.0	20.0
57.5°	32.9	29.4	27.0	24.7	22.3	21.1	18.8	18.8	17.6	17.6
60°	29.4	25.8	23.5	22.3	20.0	18.8	16.4	15.3	15.3	15.3
62.5°	24.7	23.5	21.1	18.8	16.4	15.3	14.1	12.9	12.9	12.9
65°	21.1	20.0	17.6	15.3	14.1	12.9	11.7	10.6	10.6	10.6
67.5°	17.6	15.3	14.1	12.9	11.7	10.6	9.4	8.2	7.0	8.2
70°	12.9	11.7	10.6	9.4	8.2	7.0	5.9	5.9	4.7	4.7
72.5°	8.2	7.0	7.0	5.9	4.7	4.7	3.5	3.5	2.3	2.3
75°	4.7	4.7	3.5	3.5	2.3	2.3	1.2	1.2	1.2	1.2
77.5°	2.3	1.2	1.2	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)