

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: P1446186

Luminaire Tested: P3ART13R709050DE010 E3CLSWW1MMS

Issue Date: 5/8/2026

**Test Information**

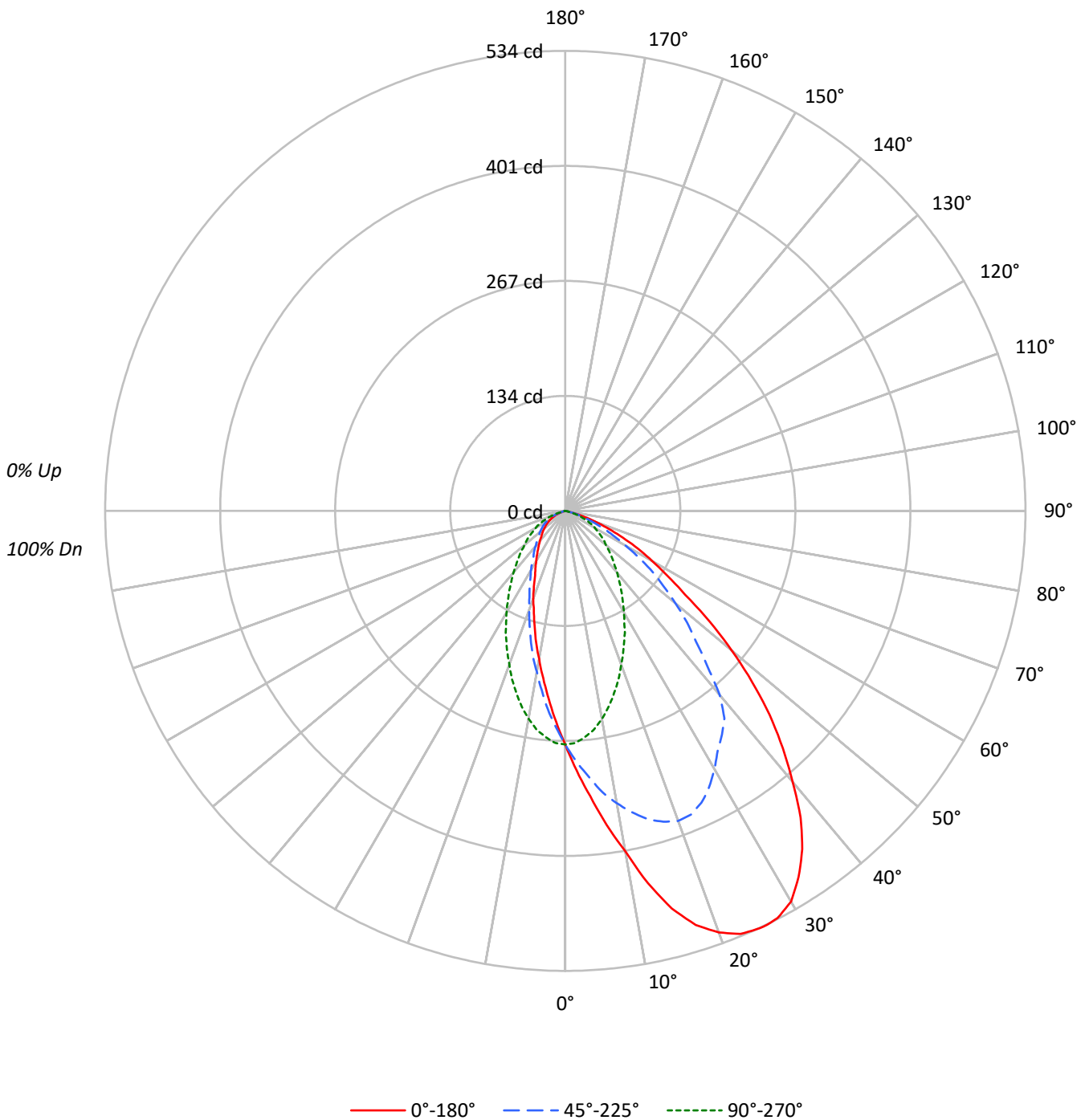
Test Method: LM-79-2019  
Report Number: P1446186  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709050DE010 E3CLSWW1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , E3CLSWW1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 540.0 lumens  
Efficiency: N/A  
Efficacy: 37.0 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 (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	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89	89	89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	78	78	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68	68	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60	60	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53	53	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47	47	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43	43	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39	39	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35	35	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	32	32

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

	0°	45°	90°	135°	180°
0°	59447	59447	59447	59447	59447
5°	73167	68105	57979	50913	48206
10°	89355	76730	54575	42284	38877
15°	108491	84132	49717	35119	31283
20°	121507	89351	44314	28586	25366
25°	129322	90417	39268	23711	20009
30°	132628	87634	34512	20155	17066
35°	128332	84858	30330	17213	14750
40°	117506	79778	26736	15343	13139
45°	104011	66488	23754	14234	11877
50°	86206	56936	20912	13066	10985
55°	64992	47444	19306	12310	9940
60°	51049	35611	17455	11403	8727
65°	38136	26203	15099	9547	7160
70°	24555	16669	10771	6860	3911
75°	10421	9065	5168	2626	1271
80°	1894	1894	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 104011 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.7	4.8
10°-20°	74.0	13.7
20°-30°	108.2	20.0
30°-40°	117.9	21.8
40°-50°	102.0	18.9
50°-60°	68.4	12.7
60°-70°	35.3	6.5
70°-80°	8.4	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°	208.0	38.5
0°-40°	325.9	60.3
0°-60°	496.3	91.9
0°-90°	540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	540.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	271	271	271	271	271	
5°	332	309	263	231	219	34
15°	478	371	219	155	138	135
25°	534	374	162	98	83	246
35°	479	317	113	64	55	297
45°	335	214	77	46	38	257
55°	170	124	50	32	26	157
65°	74	50	29	18	14	74
75°	12	11	6	3	2	16
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°	271.1	271.1	271.1	271.1	271.1	271.1	271.1	271.1	271.1	271.1	271.1
2.5°	301.7	300.2	300.2	297.1	294.1	291.0	286.4	281.8	277.2	272.6	269.6
5°	332.4	333.9	332.4	326.2	318.6	309.4	300.2	289.5	278.7	269.6	263.4
7.5°	367.6	367.6	363.0	355.3	344.6	329.3	314.0	295.6	278.7	263.4	255.8
10°	401.3	401.3	393.6	381.4	364.5	344.6	323.2	298.7	275.7	254.2	245.1
12.5°	442.6	441.1	431.9	412.0	387.5	358.4	329.3	298.7	271.1	245.1	232.8
15°	477.9	476.3	464.1	439.6	407.4	370.6	330.8	295.6	261.9	232.8	219.0
17.5°	503.9	500.8	487.0	461.0	424.2	378.3	332.4	289.5	251.2	219.0	205.2
20°	520.7	519.2	503.9	473.3	433.4	382.9	330.8	281.8	240.5	205.2	189.9
22.5°	531.5	528.4	513.1	479.4	433.4	381.4	324.7	271.1	226.7	191.4	176.1
25°	534.5	533.0	514.6	477.9	428.8	373.7	315.5	260.4	212.9	177.7	162.3
26°	534.5	533.0	514.6	476.3	425.8	369.1	310.9	255.8	208.3	171.5	157.8
27.5°	533.0	531.5	511.5	471.7	419.7	361.5	301.7	246.6	199.1	163.9	148.6
30°	523.8	520.7	500.8	461.0	405.9	346.1	286.4	232.8	185.3	150.1	136.3
32.5°	503.9	500.8	479.4	442.6	390.6	329.3	269.6	217.5	171.5	136.3	124.1
35°	479.4	476.3	454.9	419.7	369.1	317.0	251.2	200.6	156.2	125.6	113.3
37.5°	448.8	444.2	425.8	389.0	343.1	303.3	235.9	183.8	142.4	113.3	102.6
40°	410.5	408.9	392.1	358.4	312.4	278.7	226.7	183.8	130.2	102.6	93.4
42.5°	373.7	370.6	355.3	326.2	284.9	243.5	199.1	176.1	121.0	91.9	84.2
45°	335.4	332.4	318.6	294.1	255.8	214.4	176.1	151.6	104.1	84.2	76.6
47.5°	294.1	291.0	280.3	261.9	228.2	191.4	156.2	124.1	95.0	75.0	68.9
50°	252.7	254.2	245.1	226.7	200.6	166.9	134.8	104.1	81.2	67.4	61.3
52.5°	211.4	209.8	203.7	191.4	173.1	144.0	114.9	88.8	70.5	59.7	56.7
55°	170.0	171.5	168.5	160.8	145.5	124.1	96.5	76.6	62.8	53.6	50.5
57.5°	140.9	142.4	136.3	131.7	119.5	101.1	79.6	64.3	53.6	47.5	44.4
60°	116.4	117.9	113.3	107.2	98.0	81.2	64.3	53.6	47.5	42.9	39.8
62.5°	95.0	93.4	90.4	84.2	76.6	64.3	52.1	44.4	39.8	36.8	35.2
65°	73.5	73.5	70.5	65.9	59.7	50.5	41.4	36.8	33.7	30.6	29.1
67.5°	55.1	55.1	52.1	49.0	42.9	36.8	32.2	29.1	27.6	24.5	23.0
70°	38.3	38.3	36.8	35.2	30.6	26.0	24.5	21.4	19.9	18.4	16.8
72.5°	24.5	24.5	24.5	21.4	19.9	16.8	16.8	15.3	13.8	12.3	12.3
75°	12.3	13.8	12.3	12.3	10.7	10.7	9.2	9.2	7.7	7.7	6.1
77.5°	4.6	4.6	4.6	4.6	4.6	4.6	3.1	3.1	3.1	3.1	3.1
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	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°	271.1	271.1	271.1	271.1	271.1	271.1	271.1	271.1	271.1	271.1
2.5°	266.5	261.9	258.8	254.2	251.2	248.1	246.6	245.1	245.1	245.1
5°	258.8	251.2	243.5	235.9	231.3	226.7	222.1	220.5	219.0	219.0
7.5°	249.6	237.4	226.7	217.5	209.8	205.2	200.6	197.6	196.0	196.0
10°	237.4	222.1	209.8	197.6	189.9	183.8	180.7	176.1	176.1	174.6
12.5°	223.6	205.2	191.4	180.7	173.1	165.4	160.8	157.8	156.2	156.2
15°	208.3	189.9	174.6	162.3	154.7	147.0	142.4	139.4	137.8	137.8
17.5°	193.0	173.1	157.8	145.5	137.8	130.2	125.6	122.5	122.5	121.0
20°	177.7	157.8	142.4	130.2	122.5	116.4	111.8	108.7	107.2	108.7
22.5°	163.9	144.0	128.7	117.9	108.7	102.6	98.0	96.5	95.0	95.0
25°	148.6	130.2	116.4	105.7	98.0	91.9	87.3	85.8	84.2	82.7
26°	144.0	125.6	111.8	101.1	93.4	87.3	84.2	81.2	79.6	79.6
27.5°	137.8	117.9	105.7	95.0	87.3	82.7	78.1	76.6	75.0	75.0
30°	124.1	107.2	95.0	85.8	79.6	73.5	70.5	68.9	67.4	67.4
32.5°	113.3	96.5	85.8	78.1	72.0	67.4	64.3	61.3	61.3	61.3
35°	102.6	87.3	78.1	70.5	64.3	59.7	58.2	56.7	55.1	55.1
37.5°	93.4	79.6	70.5	64.3	59.7	55.1	52.1	50.5	50.5	50.5
40°	84.2	73.5	64.3	58.2	53.6	50.5	47.5	45.9	45.9	45.9
42.5°	76.6	65.9	59.7	53.6	49.0	45.9	44.4	42.9	41.4	41.4
45°	70.5	61.3	53.6	49.0	45.9	42.9	39.8	38.3	38.3	38.3
47.5°	62.8	56.7	49.0	44.4	41.4	38.3	36.8	35.2	35.2	35.2
50°	58.2	52.1	45.9	41.4	38.3	35.2	33.7	32.2	32.2	32.2
52.5°	52.1	47.5	42.9	38.3	35.2	32.2	30.6	29.1	29.1	29.1
55°	47.5	42.9	38.3	35.2	32.2	29.1	27.6	26.0	26.0	26.0
57.5°	42.9	38.3	35.2	32.2	29.1	27.6	24.5	24.5	23.0	23.0
60°	38.3	33.7	30.6	29.1	26.0	24.5	21.4	19.9	19.9	19.9
62.5°	32.2	30.6	27.6	24.5	21.4	19.9	18.4	16.8	16.8	16.8
65°	27.6	26.0	23.0	19.9	18.4	16.8	15.3	13.8	13.8	13.8
67.5°	23.0	19.9	18.4	16.8	15.3	13.8	12.3	10.7	9.2	10.7
70°	16.8	15.3	13.8	12.3	10.7	9.2	7.7	7.7	6.1	6.1
72.5°	10.7	9.2	9.2	7.7	6.1	6.1	4.6	4.6	3.1	3.1
75°	6.1	6.1	4.6	4.6	3.1	3.1	1.5	1.5	1.5	1.5
77.5°	3.1	1.5	1.5	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)