

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: P1446290

Luminaire Tested: P3ART09R709050DE010 E3CLSWW1MMS

Issue Date: 5/8/2026

**Test Information**

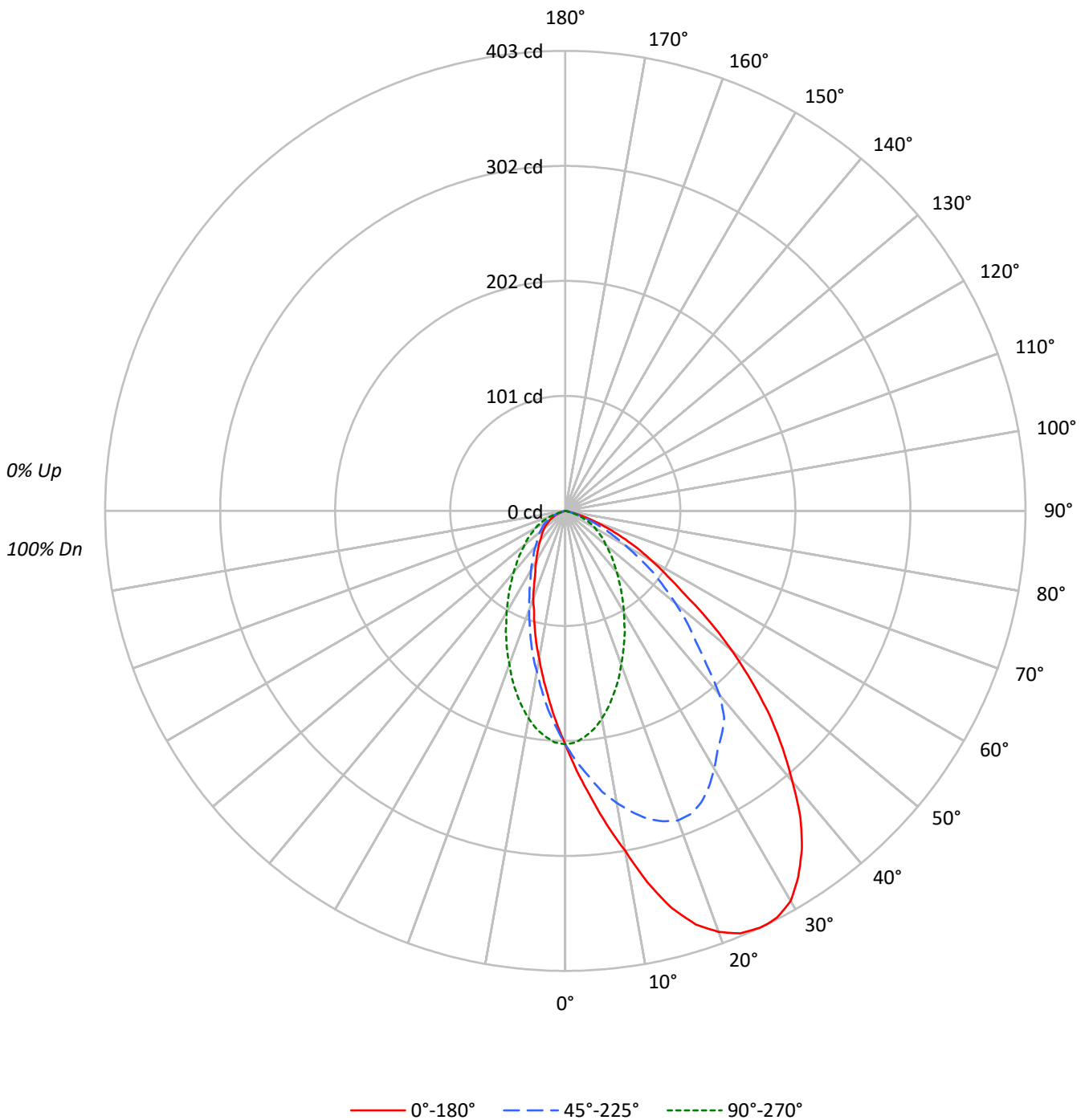
Test Method: LM-79-2019  
Report Number: P1446290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART09R709050DE010 E3CLSWW1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , E3CLSWW1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 407.0 lumens  
Efficiency: N/A  
Efficacy: 36.7 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 (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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	78			78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68			68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60			60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53			53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47			47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43			43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39			39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			32

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

	0°	45°	90°	135°	180°
0°	44799	44799	44799	44799	44799
5°	55140	51332	43693	38367	36342
10°	67333	57826	41126	31863	29303
15°	81771	63428	37480	26470	23587
20°	91591	67346	33393	21539	19135
25°	97481	68157	29615	17880	15073
30°	99965	66061	26004	15192	12863
35°	96717	63978	22861	12983	11136
40°	88566	60141	20152	11565	9904
45°	78396	50114	17893	10730	8962
50°	64987	42915	15761	9859	8256
55°	48973	35745	14566	9252	7493
60°	38462	26840	13157	8596	6578
65°	28745	19769	11363	7212	5396
70°	18529	12566	8142	5193	2949
75°	7795	6863	3897	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: 78396 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.4	4.8
10°-20°	55.8	13.7
20°-30°	81.6	20.0
30°-40°	88.9	21.8
40°-50°	76.9	18.9
50°-60°	51.5	12.7
60°-70°	26.6	6.5
70°-80°	6.3	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°	156.7	38.5
0°-40°	245.6	60.3
0°-60°	374.0	91.9
0°-90°	407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	407.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	204	204	204	204	204	
5°	250	233	198	174	165	26
15°	360	279	165	117	104	102
25°	403	282	122	74	62	185
35°	361	239	85	48	42	224
45°	253	162	58	35	29	194
55°	128	94	38	24	20	119
65°	55	38	22	14	10	56
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°	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3
2.5°	227.4	226.3	226.3	223.9	221.6	219.3	215.9	212.4	208.9	205.5	203.2
5°	250.5	251.7	250.5	245.9	240.1	233.2	226.3	218.2	210.1	203.2	198.5
7.5°	277.0	277.0	273.6	267.8	259.7	248.2	236.6	222.8	210.1	198.5	192.8
10°	302.4	302.4	296.7	287.4	274.7	259.7	243.6	225.1	207.8	191.6	184.7
12.5°	333.6	332.5	325.5	310.5	292.1	270.1	248.2	225.1	204.3	184.7	175.5
15°	360.2	359.0	349.8	331.3	307.1	279.4	249.3	222.8	197.4	175.5	165.1
17.5°	379.8	377.5	367.1	347.5	319.8	285.1	250.5	218.2	189.3	165.1	154.7
20°	392.5	391.3	379.8	356.7	326.7	288.6	249.3	212.4	181.2	154.7	143.1
22.5°	400.6	398.3	386.7	361.3	326.7	287.4	244.7	204.3	170.8	144.3	132.8
25°	402.9	401.7	387.9	360.2	323.2	281.7	237.8	196.2	160.5	133.9	122.4
26°	402.9	401.7	387.9	359.0	320.9	278.2	234.3	192.8	157.0	129.3	118.9
27.5°	401.7	400.6	385.6	355.5	316.3	272.4	227.4	185.9	150.1	123.5	112.0
30°	394.8	392.5	377.5	347.5	305.9	260.9	215.9	175.5	139.7	113.1	102.7
32.5°	379.8	377.5	361.3	333.6	294.4	248.2	203.2	163.9	129.3	102.7	93.5
35°	361.3	359.0	342.8	316.3	278.2	239.0	189.3	151.2	117.7	94.7	85.4
37.5°	338.2	334.8	320.9	293.2	258.6	228.6	177.8	138.5	107.4	85.4	77.3
40°	309.4	308.2	295.5	270.1	235.5	210.1	170.8	138.5	98.1	77.3	70.4
42.5°	281.7	279.4	267.8	245.9	214.7	183.5	150.1	132.8	91.2	69.3	63.5
45°	252.8	250.5	240.1	221.6	192.8	161.6	161.6	114.3	78.5	63.5	57.7
47.5°	221.6	219.3	211.2	197.4	172.0	144.3	117.7	93.5	71.6	56.6	51.9
50°	190.5	191.6	184.7	170.8	151.2	125.8	101.6	78.5	61.2	50.8	46.2
52.5°	159.3	158.1	153.5	144.3	130.4	108.5	86.6	67.0	53.1	45.0	42.7
55°	128.1	129.3	127.0	121.2	109.7	93.5	72.7	57.7	47.3	40.4	38.1
57.5°	106.2	107.4	102.7	99.3	90.0	76.2	60.0	48.5	40.4	35.8	33.5
60°	87.7	88.9	85.4	80.8	73.9	61.2	48.5	40.4	35.8	32.3	30.0
62.5°	71.6	70.4	68.1	63.5	57.7	48.5	39.2	33.5	30.0	27.7	26.6
65°	55.4	55.4	53.1	49.6	45.0	38.1	31.2	27.7	25.4	23.1	21.9
67.5°	41.6	41.6	39.2	36.9	32.3	27.7	24.2	21.9	20.8	18.5	17.3
70°	28.9	28.9	27.7	26.6	23.1	19.6	18.5	16.2	15.0	13.9	12.7
72.5°	18.5	18.5	18.5	16.2	15.0	12.7	12.7	11.5	10.4	9.2	9.2
75°	9.2	10.4	9.2	9.2	8.1	8.1	6.9	6.9	5.8	5.8	4.6
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°	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3	204.3
2.5°	200.9	197.4	195.1	191.6	189.3	187.0	185.9	184.7	184.7	184.7
5°	195.1	189.3	183.5	177.8	174.3	170.8	167.4	166.2	165.1	165.1
7.5°	188.2	178.9	170.8	163.9	158.1	154.7	151.2	148.9	147.8	147.8
10°	178.9	167.4	158.1	148.9	143.1	138.5	136.2	132.8	132.8	131.6
12.5°	168.5	154.7	144.3	136.2	130.4	124.7	121.2	118.9	117.7	117.7
15°	157.0	143.1	131.6	122.4	116.6	110.8	107.4	105.0	103.9	103.9
17.5°	145.4	130.4	118.9	109.7	103.9	98.1	94.7	92.3	92.3	91.2
20°	133.9	118.9	107.4	98.1	92.3	87.7	84.3	82.0	80.8	82.0
22.5°	123.5	108.5	97.0	88.9	82.0	77.3	73.9	72.7	71.6	71.6
25°	112.0	98.1	87.7	79.7	73.9	69.3	65.8	64.6	63.5	62.3
26°	108.5	94.7	84.3	76.2	70.4	65.8	63.5	61.2	60.0	60.0
27.5°	103.9	88.9	79.7	71.6	65.8	62.3	58.9	57.7	56.6	56.6
30°	93.5	80.8	71.6	64.6	60.0	55.4	53.1	51.9	50.8	50.8
32.5°	85.4	72.7	64.6	58.9	54.3	50.8	48.5	46.2	46.2	46.2
35°	77.3	65.8	58.9	53.1	48.5	45.0	43.9	42.7	41.6	41.6
37.5°	70.4	60.0	53.1	48.5	45.0	41.6	39.2	38.1	38.1	38.1
40°	63.5	55.4	48.5	43.9	40.4	38.1	35.8	34.6	34.6	34.6
42.5°	57.7	49.6	45.0	40.4	36.9	34.6	33.5	32.3	31.2	31.2
45°	53.1	46.2	40.4	36.9	34.6	32.3	30.0	28.9	28.9	28.9
47.5°	47.3	42.7	36.9	33.5	31.2	28.9	27.7	26.6	26.6	26.6
50°	43.9	39.2	34.6	31.2	28.9	26.6	25.4	24.2	24.2	24.2
52.5°	39.2	35.8	32.3	28.9	26.6	24.2	23.1	21.9	21.9	21.9
55°	35.8	32.3	28.9	26.6	24.2	21.9	20.8	19.6	19.6	19.6
57.5°	32.3	28.9	26.6	24.2	21.9	20.8	18.5	18.5	17.3	17.3
60°	28.9	25.4	23.1	21.9	19.6	18.5	16.2	15.0	15.0	15.0
62.5°	24.2	23.1	20.8	18.5	16.2	15.0	13.9	12.7	12.7	12.7
65°	20.8	19.6	17.3	15.0	13.9	12.7	11.5	10.4	10.4	10.4
67.5°	17.3	15.0	13.9	12.7	11.5	10.4	9.2	8.1	6.9	8.1
70°	12.7	11.5	10.4	9.2	8.1	6.9	5.8	5.8	4.6	4.6
72.5°	8.1	6.9	6.9	5.8	4.6	4.6	3.5	3.5	2.3	2.3
75°	4.6	4.6	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)