

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: P1446706

Luminaire Tested: P3ART13R709740DE010 E3CLSWW1MMS

Issue Date: 5/8/2026

**Test Information**

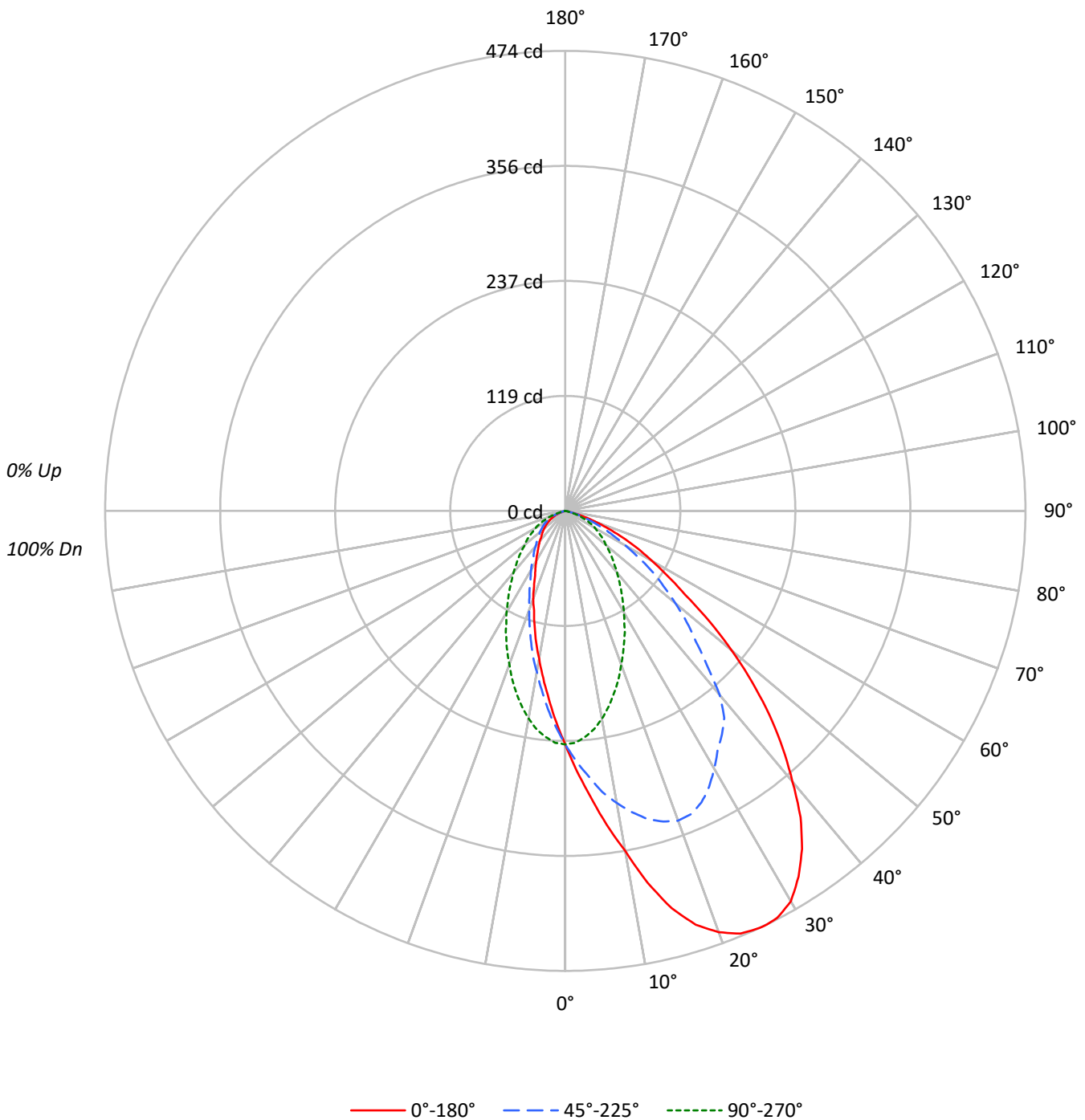
Test Method: LM-79-2019  
Report Number: P1446706  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709740DE010 E3CLSWW1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , E3CLSWW1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 479.0 lumens  
Efficiency: N/A  
Efficacy: 32.8 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

TEST NUMBER: P1446706  
CATALOG NUMBER: P3ART13R709740DE010 E3CLSWW1MMS

### 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°	52737	52737	52737	52737	52737
5°	64891	60400	51442	45146	42769
10°	79246	68068	48407	37519	34491
15°	96232	74643	44109	31147	27764
20°	107786	79247	39320	25366	22519
25°	114708	80206	34841	21025	17759
30°	117638	77733	30612	17876	15142
35°	113823	75275	26903	15285	13090
40°	104224	70790	23730	13597	11679
45°	92258	58983	21056	12652	10544
50°	76484	50523	18524	11599	9722
55°	57651	42053	17127	10896	8831
60°	45303	31576	15481	10131	7763
65°	33830	23245	13387	8457	6330
70°	21799	14810	9553	6091	3462
75°	9235	8049	4575	2288	1186
80°	1768	1768	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 92258 cd/sqm



TEST NUMBER: P1446706

CATALOG NUMBER: P3ART13R709740DE010 E3CLSWW1MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.8	4.8
10°-20°	65.7	13.7
20°-30°	96.0	20.0
30°-40°	104.6	21.8
40°-50°	90.5	18.9
50°-60°	60.6	12.7
60°-70°	31.3	6.5
70°-80°	7.4	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°	184.5	38.5
0°-40°	289.1	60.3
0°-60°	440.2	91.9
0°-90°	479.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	479.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	240	240	240	240	240	
5°	295	274	234	205	194	30
15°	424	329	194	137	122	120
25°	474	332	144	87	73	218
35°	425	281	100	57	49	263
45°	298	190	68	41	34	228
55°	151	110	45	28	23	140
65°	65	45	26	16	12	66
75°	11	10	5	3	1	14
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1446706

CATALOG NUMBER: P3ART13R709740DE010 E3CLSWW1MMS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	240.5	240.5	240.5	240.5	240.5	240.5	240.5	240.5	240.5	240.5	240.5
2.5°	267.6	266.3	266.3	263.6	260.8	258.1	254.1	250.0	245.9	241.8	239.1
5°	294.8	296.2	294.8	289.4	282.6	274.4	266.3	256.8	247.3	239.1	233.7
7.5°	326.1	326.1	322.0	315.2	305.7	292.1	278.5	262.2	247.3	233.7	226.9
10°	355.9	355.9	349.2	338.3	323.3	305.7	286.7	264.9	244.5	225.5	217.4
12.5°	392.6	391.3	383.1	365.5	343.7	317.9	292.1	264.9	240.5	217.4	206.5
15°	423.9	422.5	411.6	389.9	361.4	328.8	293.5	262.2	232.3	206.5	194.3
17.5°	447.0	444.3	432.0	408.9	376.3	335.6	294.8	256.8	222.8	194.3	182.0
20°	461.9	460.6	447.0	419.8	384.5	339.6	293.5	250.0	213.3	182.0	168.5
22.5°	471.4	468.7	455.1	425.2	384.5	338.3	288.0	240.5	201.1	169.8	156.2
25°	474.1	472.8	456.5	423.9	380.4	331.5	279.9	231.0	188.8	157.6	144.0
26°	474.1	472.8	456.5	422.5	377.7	327.4	275.8	226.9	184.8	152.2	139.9
27.5°	472.8	471.4	453.8	418.4	372.2	320.6	267.6	218.7	176.6	145.4	131.8
30°	464.6	461.9	444.3	408.9	360.0	307.0	254.1	206.5	164.4	133.1	120.9
32.5°	447.0	444.3	425.2	392.6	346.4	292.1	239.1	192.9	152.2	120.9	110.0
35°	425.2	422.5	403.5	372.2	327.4	281.2	222.8	178.0	138.6	111.4	100.5
37.5°	398.1	394.0	377.7	345.1	304.3	269.0	209.2	163.0	126.3	100.5	91.0
40°	364.1	362.7	347.8	317.9	277.1	247.3	201.1	163.0	115.5	91.0	82.9
42.5°	331.5	328.8	315.2	289.4	252.7	216.0	176.6	156.2	107.3	81.5	74.7
45°	297.5	294.8	282.6	260.8	226.9	190.2	156.2	134.5	92.4	74.7	67.9
47.5°	260.8	258.1	248.6	232.3	202.4	169.8	138.6	110.0	84.2	66.6	61.1
50°	224.2	225.5	217.4	201.1	178.0	148.1	119.6	92.4	72.0	59.8	54.3
52.5°	187.5	186.1	180.7	169.8	153.5	127.7	101.9	78.8	62.5	53.0	50.3
55°	150.8	152.2	149.4	142.6	129.1	110.0	85.6	67.9	55.7	47.5	44.8
57.5°	125.0	126.3	120.9	116.8	106.0	89.7	70.6	57.1	47.5	42.1	39.4
60°	103.3	104.6	100.5	95.1	86.9	72.0	57.1	47.5	42.1	38.0	35.3
62.5°	84.2	82.9	80.2	74.7	67.9	57.1	46.2	39.4	35.3	32.6	31.2
65°	65.2	65.2	62.5	58.4	53.0	44.8	36.7	32.6	29.9	27.2	25.8
67.5°	48.9	48.9	46.2	43.5	38.0	32.6	28.5	25.8	24.5	21.7	20.4
70°	34.0	34.0	32.6	31.2	27.2	23.1	21.7	19.0	17.7	16.3	14.9
72.5°	21.7	21.7	21.7	19.0	17.7	14.9	14.9	13.6	12.2	10.9	10.9
75°	10.9	12.2	10.9	10.9	9.5	9.5	8.2	8.2	6.8	6.8	5.4
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	2.7	2.7	2.7	2.7	2.7
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	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



TEST NUMBER: P1446706  
 CATALOG NUMBER: P3ART13R709740DE010 E3CLSWW1MMS

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	240.5	240.5	240.5	240.5	240.5	240.5	240.5	240.5	240.5	240.5
2.5°	236.4	232.3	229.6	225.5	222.8	220.1	218.7	217.4	217.4	217.4
5°	229.6	222.8	216.0	209.2	205.1	201.1	197.0	195.6	194.3	194.3
7.5°	221.4	210.6	201.1	192.9	186.1	182.0	178.0	175.3	173.9	173.9
10°	210.6	197.0	186.1	175.3	168.5	163.0	160.3	156.2	156.2	154.9
12.5°	198.4	182.0	169.8	160.3	153.5	146.7	142.6	139.9	138.6	138.6
15°	184.8	168.5	154.9	144.0	137.2	130.4	126.3	123.6	122.3	122.3
17.5°	171.2	153.5	139.9	129.1	122.3	115.5	111.4	108.7	108.7	107.3
20°	157.6	139.9	126.3	115.5	108.7	103.3	99.2	96.5	95.1	96.5
22.5°	145.4	127.7	114.1	104.6	96.5	91.0	86.9	85.6	84.2	84.2
25°	131.8	115.5	103.3	93.7	86.9	81.5	77.4	76.1	74.7	73.4
26°	127.7	111.4	99.2	89.7	82.9	77.4	74.7	72.0	70.6	70.6
27.5°	122.3	104.6	93.7	84.2	77.4	73.4	69.3	67.9	66.6	66.6
30°	110.0	95.1	84.2	76.1	70.6	65.2	62.5	61.1	59.8	59.8
32.5°	100.5	85.6	76.1	69.3	63.9	59.8	57.1	54.3	54.3	54.3
35°	91.0	77.4	69.3	62.5	57.1	53.0	51.6	50.3	48.9	48.9
37.5°	82.9	70.6	62.5	57.1	53.0	48.9	46.2	44.8	44.8	44.8
40°	74.7	65.2	57.1	51.6	47.5	44.8	42.1	40.8	40.8	40.8
42.5°	67.9	58.4	53.0	47.5	43.5	40.8	39.4	38.0	36.7	36.7
45°	62.5	54.3	47.5	43.5	40.8	38.0	35.3	34.0	34.0	34.0
47.5°	55.7	50.3	43.5	39.4	36.7	34.0	32.6	31.2	31.2	31.2
50°	51.6	46.2	40.8	36.7	34.0	31.2	29.9	28.5	28.5	28.5
52.5°	46.2	42.1	38.0	34.0	31.2	28.5	27.2	25.8	25.8	25.8
55°	42.1	38.0	34.0	31.2	28.5	25.8	24.5	23.1	23.1	23.1
57.5°	38.0	34.0	31.2	28.5	25.8	24.5	21.7	21.7	20.4	20.4
60°	34.0	29.9	27.2	25.8	23.1	21.7	19.0	17.7	17.7	17.7
62.5°	28.5	27.2	24.5	21.7	19.0	17.7	16.3	14.9	14.9	14.9
65°	24.5	23.1	20.4	17.7	16.3	14.9	13.6	12.2	12.2	12.2
67.5°	20.4	17.7	16.3	14.9	13.6	12.2	10.9	9.5	8.2	9.5
70°	14.9	13.6	12.2	10.9	9.5	8.2	6.8	6.8	5.4	5.4
72.5°	9.5	8.2	8.2	6.8	5.4	5.4	4.1	4.1	2.7	2.7
75°	5.4	5.4	4.1	4.1	2.7	2.7	1.4	1.4	1.4	1.4
77.5°	2.7	1.4	1.4	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)