

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: P#

Luminaire Tested: P3ART20R709727D010 E3CLSWW1MB

Issue Date: 5/8/2026

**Test Information**

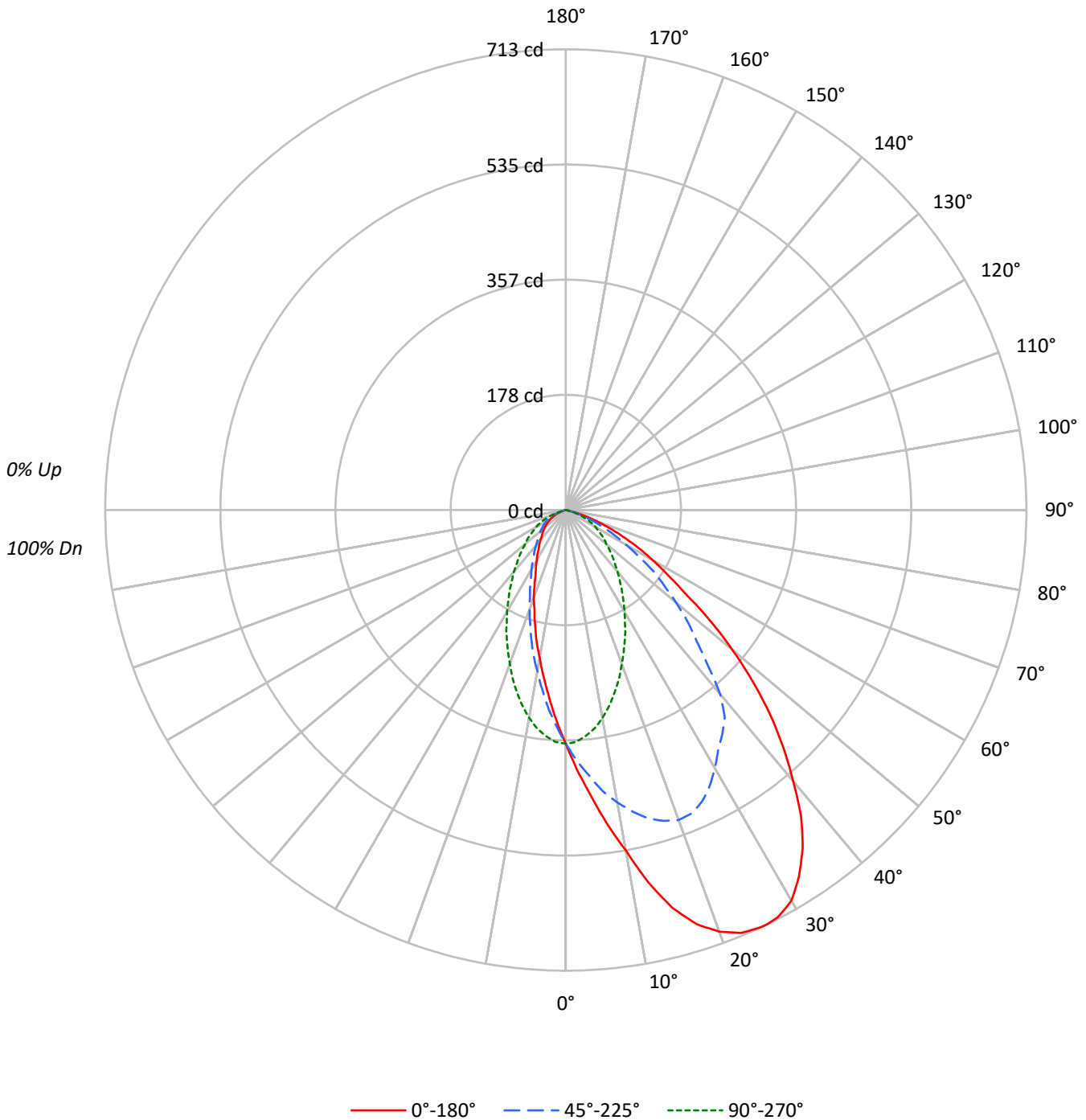
Test Method: LM-79-2019  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART20R709727D010 E3CLSWW1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3CLSWW1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 720.0 lumens  
Efficiency: N/A  
Efficacy: 25.0 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): 28.8  
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°	79270	79270	79270	79270	79270
5°	97534	90799	77306	67884	64275
10°	119125	102314	72744	56378	51836
15°	144632	112191	66289	46833	41726
20°	162017	119127	59085	38130	33836
25°	172437	120563	52382	31623	26687
30°	176837	116853	46007	26890	22763
35°	171109	113154	40448	22968	19675
40°	156665	106399	35667	20467	17547
45°	138681	88660	31662	19010	15847
50°	114930	75938	27871	17432	14635
55°	86668	63233	25767	16401	13266
60°	68065	47452	23288	15218	11622
65°	50849	34971	20132	12712	9547
70°	32762	22247	14426	9168	5257
75°	13810	12115	6947	3474	1694
80°	2526	2526	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 138681 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.3	4.8
10°-20°	98.7	13.7
20°-30°	144.3	20.0
30°-40°	157.2	21.8
40°-50°	136.1	18.9
50°-60°	91.1	12.7
60°-70°	47.1	6.5
70°-80°	11.1	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°	277.3	38.5
0°-40°	434.5	60.3
0°-60°	661.7	91.9
0°-90°	720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	720.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	362	362	362	362	362	
5°	443	412	351	308	292	45
15°	637	494	292	206	184	180
25°	713	498	216	131	110	327
35°	639	423	151	86	74	396
45°	447	286	102	61	51	342
55°	227	165	67	43	35	210
65°	98	67	39	24	18	99
75°	16	14	8	4	2	21
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P#  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5
2.5°	402.3	400.3	400.3	396.2	392.1	388.0	381.9	375.7	369.6	363.5	359.4
5°	443.1	445.2	443.1	435.0	424.8	412.5	400.3	386.0	371.7	359.4	351.2
7.5°	490.1	490.1	484.0	473.8	459.5	439.1	418.6	394.1	371.7	351.2	341.0
10°	535.0	535.0	524.8	508.5	486.0	459.5	430.9	398.2	367.6	339.0	326.7
12.5°	590.2	588.1	575.9	549.3	516.7	477.9	439.1	398.2	361.5	326.7	310.4
15°	637.1	635.1	618.8	586.1	543.2	494.2	441.1	394.1	349.2	310.4	292.0
17.5°	671.9	667.8	649.4	614.7	565.7	504.4	443.1	386.0	334.9	292.0	273.6
20°	694.3	692.3	671.9	631.0	577.9	510.5	441.1	375.7	320.6	273.6	253.2
22.5°	708.6	704.5	684.1	639.2	577.9	508.5	432.9	361.5	302.2	255.3	234.8
25°	712.7	710.7	686.1	637.1	571.8	498.3	420.7	347.2	283.9	236.9	216.5
26°	712.7	710.7	686.1	635.1	567.7	492.1	414.5	341.0	277.7	228.7	210.3
27.5°	710.7	708.6	682.1	629.0	559.5	481.9	402.3	328.8	265.5	218.5	198.1
30°	698.4	694.3	667.8	614.7	541.2	461.5	381.9	310.4	247.1	200.1	181.7
32.5°	671.9	667.8	639.2	590.2	520.7	439.1	359.4	290.0	228.7	181.7	165.4
35°	639.2	635.1	606.5	559.5	492.1	422.7	334.9	267.5	208.3	167.5	151.1
37.5°	598.3	592.2	567.7	518.7	457.4	404.3	314.5	245.1	189.9	151.1	136.8
40°	547.3	545.2	522.8	477.9	416.6	371.7	302.2	245.1	173.6	136.8	124.6
42.5°	498.3	494.2	473.8	435.0	379.8	324.7	265.5	234.8	161.3	122.5	112.3
45°	447.2	443.1	424.8	392.1	341.0	285.9	234.8	202.2	138.9	112.3	102.1
47.5°	392.1	388.0	373.7	349.2	304.3	255.3	208.3	165.4	126.6	100.1	91.9
50°	336.9	339.0	326.7	302.2	267.5	222.6	179.7	138.9	108.2	89.9	81.7
52.5°	281.8	279.8	271.6	255.3	230.8	192.0	153.2	118.4	93.9	79.6	75.6
55°	226.7	228.7	224.6	214.4	194.0	165.4	128.7	102.1	83.7	71.5	67.4
57.5°	187.9	189.9	181.7	175.6	159.3	134.8	106.2	85.8	71.5	63.3	59.2
60°	155.2	157.2	151.1	142.9	130.7	108.2	85.8	71.5	63.3	57.2	53.1
62.5°	126.6	124.6	120.5	112.3	102.1	85.8	69.4	59.2	53.1	49.0	47.0
65°	98.0	98.0	93.9	87.8	79.6	67.4	55.1	49.0	44.9	40.8	38.8
67.5°	73.5	73.5	69.4	65.3	57.2	49.0	42.9	38.8	36.8	32.7	30.6
70°	51.1	51.1	49.0	47.0	40.8	34.7	32.7	28.6	26.5	24.5	22.5
72.5°	32.7	32.7	32.7	28.6	26.5	22.5	22.5	20.4	18.4	16.3	16.3
75°	16.3	18.4	16.3	16.3	14.3	14.3	12.3	12.3	10.2	10.2	8.2
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	4.1	4.1	4.1	4.1	4.1
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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°	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5
2.5°	355.3	349.2	345.1	339.0	334.9	330.8	328.8	326.7	326.7	326.7
5°	345.1	334.9	324.7	314.5	308.4	302.2	296.1	294.1	292.0	292.0
7.5°	332.9	316.5	302.2	290.0	279.8	273.6	267.5	263.4	261.4	261.4
10°	316.5	296.1	279.8	263.4	253.2	245.1	241.0	234.8	234.8	232.8
12.5°	298.1	273.6	255.3	241.0	230.8	220.5	214.4	210.3	208.3	208.3
15°	277.7	253.2	232.8	216.5	206.3	196.0	189.9	185.8	183.8	183.8
17.5°	257.3	230.8	210.3	194.0	183.8	173.6	167.5	163.4	163.4	161.3
20°	236.9	210.3	189.9	173.6	163.4	155.2	149.1	145.0	142.9	145.0
22.5°	218.5	192.0	171.5	157.2	145.0	136.8	130.7	128.7	126.6	126.6
25°	198.1	173.6	155.2	140.9	130.7	122.5	116.4	114.4	112.3	110.3
26°	192.0	167.5	149.1	134.8	124.6	116.4	112.3	108.2	106.2	106.2
27.5°	183.8	157.2	140.9	126.6	116.4	110.3	104.1	102.1	100.1	100.1
30°	165.4	142.9	126.6	114.4	106.2	98.0	93.9	91.9	89.9	89.9
32.5°	151.1	128.7	114.4	104.1	96.0	89.9	85.8	81.7	81.7	81.7
35°	136.8	116.4	104.1	93.9	85.8	79.6	77.6	75.6	73.5	73.5
37.5°	124.6	106.2	93.9	85.8	79.6	73.5	69.4	67.4	67.4	67.4
40°	112.3	98.0	85.8	77.6	71.5	67.4	63.3	61.3	61.3	61.3
42.5°	102.1	87.8	79.6	71.5	65.3	61.3	59.2	57.2	55.1	55.1
45°	93.9	81.7	71.5	65.3	61.3	57.2	53.1	51.1	51.1	51.1
47.5°	83.7	75.6	65.3	59.2	55.1	51.1	49.0	47.0	47.0	47.0
50°	77.6	69.4	61.3	55.1	51.1	47.0	44.9	42.9	42.9	42.9
52.5°	69.4	63.3	57.2	51.1	47.0	42.9	40.8	38.8	38.8	38.8
55°	63.3	57.2	51.1	47.0	42.9	38.8	36.8	34.7	34.7	34.7
57.5°	57.2	51.1	47.0	42.9	38.8	36.8	32.7	32.7	30.6	30.6
60°	51.1	44.9	40.8	38.8	34.7	32.7	28.6	26.5	26.5	26.5
62.5°	42.9	40.8	36.8	32.7	28.6	26.5	24.5	22.5	22.5	22.5
65°	36.8	34.7	30.6	26.5	24.5	22.5	20.4	18.4	18.4	18.4
67.5°	30.6	26.5	24.5	22.5	20.4	18.4	16.3	14.3	12.3	14.3
70°	22.5	20.4	18.4	16.3	14.3	12.3	10.2	10.2	8.2	8.2
72.5°	14.3	12.3	12.3	10.2	8.2	8.2	6.1	6.1	4.1	4.1
75°	8.2	8.2	6.1	6.1	4.1	4.1	2.0	2.0	2.0	2.0
77.5°	4.1	2.0	2.0	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)