

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: P1446342

Luminaire Tested: P3ART17R709727DE010 E3CLSWW1MMS

Issue Date: 5/8/2026

**Test Information**

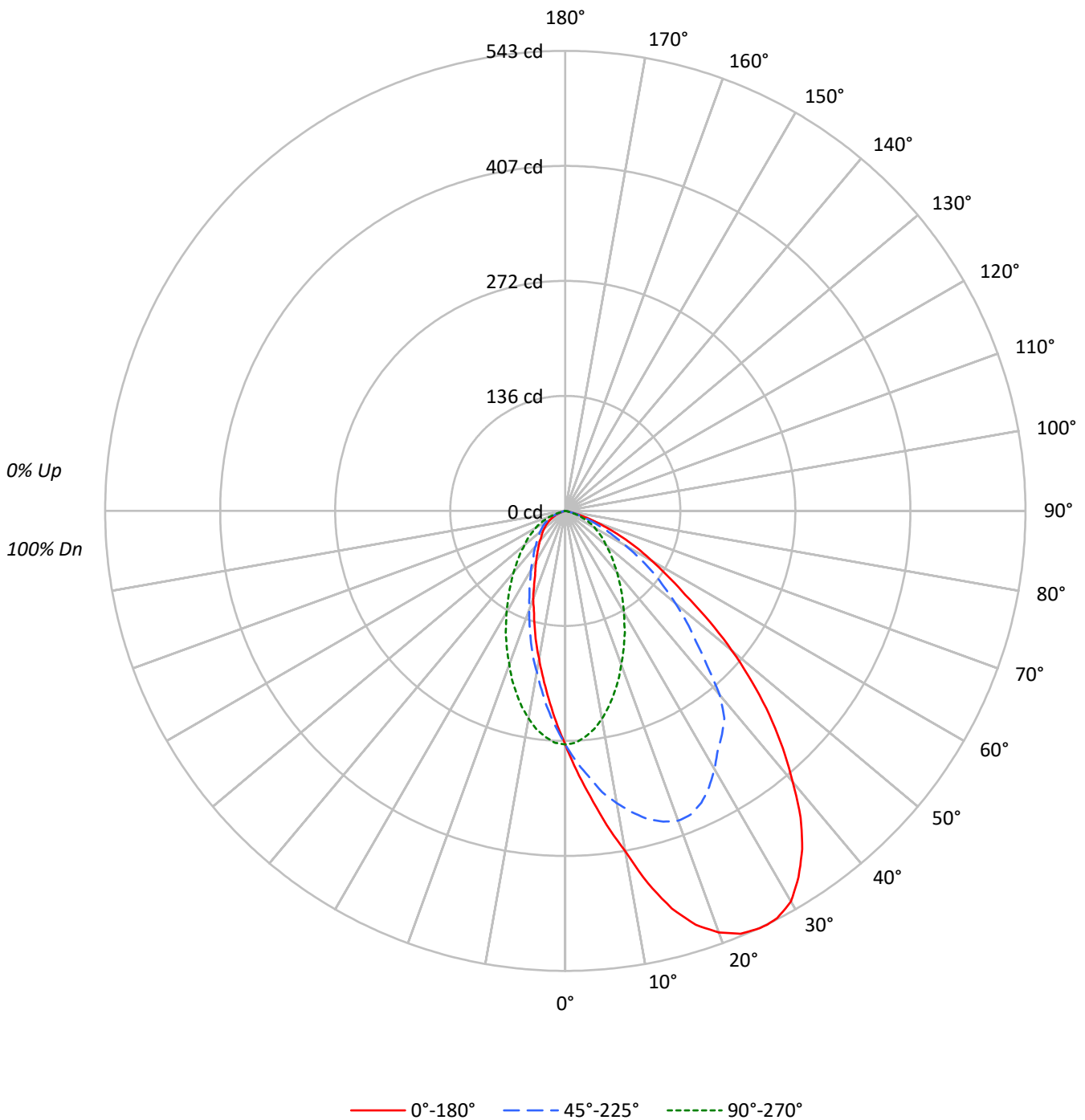
Test Method: LM-79-2019  
Report Number: P1446342  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART17R709727DE010 E3CLSWW1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3CLSWW1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 549.0 lumens  
Efficiency: N/A  
Efficacy: 25.9 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): 21.2  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

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

	0°	45°	90°	135°	180°
0°	60434	60434	60434	60434	60434
5°	74378	69227	58948	51750	49020
10°	90847	77999	55465	42996	39523
15°	110284	85540	50556	35710	31805
20°	123537	90845	45061	29076	25809
25°	131475	91917	39946	24122	20348
30°	134831	89102	35094	20509	17344
35°	130473	86277	30838	17507	15018
40°	119452	81123	27194	15601	13368
45°	105747	67604	24158	14482	12063
50°	87639	57891	21253	13270	11155
55°	66062	48209	19650	12501	10131
60°	51882	36181	17762	11622	8859
65°	38759	26670	15358	9703	7264
70°	24940	16990	10963	6988	3975
75°	10590	9235	5253	2626	1356
80°	2020	2020	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 105747 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.2	4.8
10°-20°	75.2	13.7
20°-30°	110.0	20.0
30°-40°	119.9	21.8
40°-50°	103.7	18.9
50°-60°	69.5	12.7
60°-70°	35.9	6.5
70°-80°	8.5	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°	211.4	38.5
0°-40°	331.3	60.3
0°-60°	504.5	91.9
0°-90°	549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	549.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	276	276	276	276	276	
5°	338	314	268	235	223	34
15°	486	377	223	157	140	138
25°	543	380	165	100	84	250
35°	487	322	115	65	56	302
45°	341	218	78	47	39	261
55°	173	126	51	33	26	160
65°	75	51	30	19	14	75
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°	275.6	275.6	275.6	275.6	275.6	275.6	275.6	275.6	275.6	275.6	275.6
2.5°	306.8	305.2	305.2	302.1	299.0	295.9	291.2	286.5	281.8	277.2	274.1
5°	337.9	339.4	337.9	331.7	323.9	314.5	305.2	294.3	283.4	274.1	267.8
7.5°	373.7	373.7	369.0	361.2	350.3	334.8	319.2	300.5	283.4	267.8	260.0
10°	408.0	408.0	400.2	387.7	370.6	350.3	328.5	303.6	280.3	258.5	249.1
12.5°	450.0	448.4	439.1	418.9	393.9	364.4	334.8	303.6	275.6	249.1	236.7
15°	485.8	484.3	471.8	446.9	414.2	376.8	336.3	300.5	266.3	236.7	222.7
17.5°	512.3	509.2	495.2	468.7	431.3	384.6	337.9	294.3	255.4	222.7	208.7
20°	529.4	527.9	512.3	481.1	440.7	389.3	336.3	286.5	244.5	208.7	193.1
22.5°	540.3	537.2	521.6	487.4	440.7	387.7	330.1	275.6	230.5	194.6	179.1
25°	543.4	541.9	523.2	485.8	436.0	379.9	320.8	264.7	216.4	180.6	165.1
26°	543.4	541.9	523.2	484.3	432.9	375.3	316.1	260.0	211.8	174.4	160.4
27.5°	541.9	540.3	520.1	479.6	426.6	367.5	306.8	250.7	202.4	166.6	151.0
30°	532.5	529.4	509.2	468.7	412.6	351.9	291.2	236.7	188.4	152.6	138.6
32.5°	512.3	509.2	487.4	450.0	397.1	334.8	274.1	221.1	174.4	138.6	126.1
35°	487.4	484.3	462.5	426.6	375.3	322.3	255.4	204.0	158.8	127.7	115.2
37.5°	456.2	451.6	432.9	395.5	348.8	308.3	239.8	186.9	144.8	115.2	104.3
40°	417.3	415.7	398.6	364.4	317.6	283.4	230.5	186.9	132.4	104.3	95.0
42.5°	379.9	376.8	361.2	331.7	289.6	247.6	202.4	179.1	123.0	93.4	85.6
45°	341.0	337.9	323.9	299.0	260.0	218.0	218.0	154.2	105.9	85.6	77.9
47.5°	299.0	295.9	285.0	266.3	232.0	194.6	158.8	126.1	96.5	76.3	70.1
50°	256.9	258.5	249.1	230.5	204.0	169.7	137.0	105.9	82.5	68.5	62.3
52.5°	214.9	213.3	207.1	194.6	176.0	146.4	116.8	90.3	71.6	60.7	57.6
55°	172.8	174.4	171.3	163.5	147.9	126.1	98.1	77.9	63.8	54.5	51.4
57.5°	143.3	144.8	138.6	133.9	121.5	102.8	81.0	65.4	54.5	48.3	45.2
60°	118.3	119.9	115.2	109.0	99.7	82.5	65.4	54.5	48.3	43.6	40.5
62.5°	96.5	95.0	91.9	85.6	77.9	65.4	52.9	45.2	40.5	37.4	35.8
65°	74.7	74.7	71.6	67.0	60.7	51.4	42.0	37.4	34.3	31.1	29.6
67.5°	56.1	56.1	52.9	49.8	43.6	37.4	32.7	29.6	28.0	24.9	23.4
70°	38.9	38.9	37.4	35.8	31.1	26.5	24.9	21.8	20.2	18.7	17.1
72.5°	24.9	24.9	24.9	21.8	20.2	17.1	17.1	15.6	14.0	12.5	12.5
75°	12.5	14.0	12.5	12.5	10.9	10.9	9.3	9.3	7.8	7.8	6.2
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	3.1	3.1	3.1	3.1	3.1
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	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°	275.6	275.6	275.6	275.6	275.6	275.6	275.6	275.6	275.6	275.6
2.5°	270.9	266.3	263.2	258.5	255.4	252.3	250.7	249.1	249.1	249.1
5°	263.2	255.4	247.6	239.8	235.1	230.5	225.8	224.2	222.7	222.7
7.5°	253.8	241.4	230.5	221.1	213.3	208.7	204.0	200.9	199.3	199.3
10°	241.4	225.8	213.3	200.9	193.1	186.9	183.7	179.1	179.1	177.5
12.5°	227.3	208.7	194.6	183.7	176.0	168.2	163.5	160.4	158.8	158.8
15°	211.8	193.1	177.5	165.1	157.3	149.5	144.8	141.7	140.1	140.1
17.5°	196.2	176.0	160.4	147.9	140.1	132.4	127.7	124.6	124.6	123.0
20°	180.6	160.4	144.8	132.4	124.6	118.3	113.7	110.6	109.0	110.6
22.5°	166.6	146.4	130.8	119.9	110.6	104.3	99.7	98.1	96.5	96.5
25°	151.0	132.4	118.3	107.4	99.7	93.4	88.8	87.2	85.6	84.1
26°	146.4	127.7	113.7	102.8	95.0	88.8	85.6	82.5	81.0	81.0
27.5°	140.1	119.9	107.4	96.5	88.8	84.1	79.4	77.9	76.3	76.3
30°	126.1	109.0	96.5	87.2	81.0	74.7	71.6	70.1	68.5	68.5
32.5°	115.2	98.1	87.2	79.4	73.2	68.5	65.4	62.3	62.3	62.3
35°	104.3	88.8	79.4	71.6	65.4	60.7	59.2	57.6	56.1	56.1
37.5°	95.0	81.0	71.6	65.4	60.7	56.1	52.9	51.4	51.4	51.4
40°	85.6	74.7	65.4	59.2	54.5	51.4	48.3	46.7	46.7	46.7
42.5°	77.9	67.0	60.7	54.5	49.8	46.7	45.2	43.6	42.0	42.0
45°	71.6	62.3	54.5	49.8	46.7	43.6	40.5	38.9	38.9	38.9
47.5°	63.8	57.6	49.8	45.2	42.0	38.9	37.4	35.8	35.8	35.8
50°	59.2	52.9	46.7	42.0	38.9	35.8	34.3	32.7	32.7	32.7
52.5°	52.9	48.3	43.6	38.9	35.8	32.7	31.1	29.6	29.6	29.6
55°	48.3	43.6	38.9	35.8	32.7	29.6	28.0	26.5	26.5	26.5
57.5°	43.6	38.9	35.8	32.7	29.6	28.0	24.9	24.9	23.4	23.4
60°	38.9	34.3	31.1	29.6	26.5	24.9	21.8	20.2	20.2	20.2
62.5°	32.7	31.1	28.0	24.9	21.8	20.2	18.7	17.1	17.1	17.1
65°	28.0	26.5	23.4	20.2	18.7	17.1	15.6	14.0	14.0	14.0
67.5°	23.4	20.2	18.7	17.1	15.6	14.0	12.5	10.9	9.3	10.9
70°	17.1	15.6	14.0	12.5	10.9	9.3	7.8	7.8	6.2	6.2
72.5°	10.9	9.3	9.3	7.8	6.2	6.2	4.7	4.7	3.1	3.1
75°	6.2	6.2	4.7	4.7	3.1	3.1	1.6	1.6	1.6	1.6
77.5°	3.1	1.6	1.6	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)