

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: P1445693

Luminaire Tested: P3ART17R709027DE010 E3CLSWW1MW

Issue Date: 5/8/2026

**Test Information**

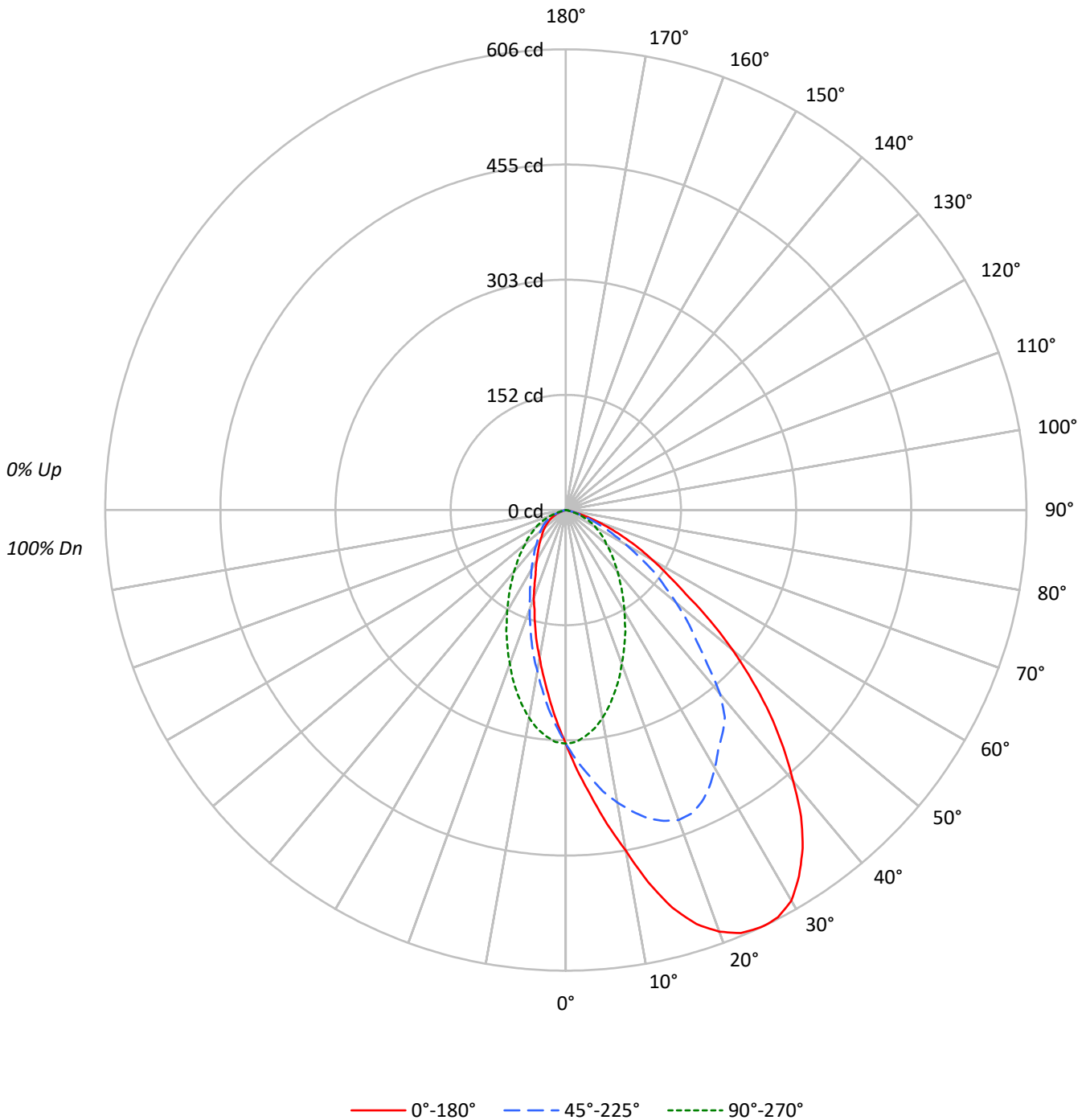
Test Method: LM-79-2019  
Report Number: P1445693  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART17R709027DE010 E3CLSWW1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , E3CLSWW1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 612.0 lumens  
Efficiency: N/A  
Efficacy: 28.9 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 (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

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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°	67363	67363	67363	67363	67363
5°	82919	77173	65727	57693	54633
10°	101267	86972	61834	47917	44065
15°	122952	95369	56345	39796	35460
20°	137725	101252	50218	32413	28749
25°	146573	102466	44519	26881	22671
30°	150302	99332	39120	22864	19345
35°	145437	96182	34372	19515	16731
40°	133164	90427	30314	17404	14914
45°	117873	75357	26918	16157	13459
50°	97703	64544	23675	14805	12452
55°	73670	53752	21906	13954	11278
60°	57846	40348	19779	12938	9911
65°	43221	29731	17122	10792	8094
70°	27825	18913	12246	7822	4424
75°	11777	10336	5846	2965	1440
80°	2147	2147	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 117873 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.2	4.8
10°-20°	83.9	13.7
20°-30°	122.6	20.0
30°-40°	133.6	21.8
40°-50°	115.6	18.9
50°-60°	77.5	12.7
60°-70°	40.0	6.5
70°-80°	9.5	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°	235.7	38.5
0°-40°	369.3	60.3
0°-60°	562.4	91.9
0°-90°	612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	612.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	307	307	307	307	307	
5°	377	351	299	262	248	38
15°	542	420	248	175	156	153
25°	606	424	184	111	94	278
35°	543	359	128	73	62	336
45°	380	243	87	52	43	291
55°	193	141	57	36	30	178
65°	83	57	33	21	16	84
75°	14	12	7	4	2	18
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°	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2
2.5°	342.0	340.2	340.2	336.7	333.3	329.8	324.6	319.4	314.2	309.0	305.5
5°	376.7	378.4	376.7	369.7	361.0	350.6	340.2	328.1	315.9	305.5	298.6
7.5°	416.6	416.6	411.4	402.7	390.6	373.2	355.8	335.0	315.9	298.6	289.9
10°	454.8	454.8	446.1	432.2	413.1	390.6	366.3	338.5	312.4	288.1	277.7
12.5°	501.6	499.9	489.5	466.9	439.2	406.2	373.2	338.5	307.2	277.7	263.8
15°	541.6	539.8	525.9	498.2	461.7	420.1	374.9	335.0	296.8	263.8	248.2
17.5°	571.1	567.6	552.0	522.5	480.8	428.7	376.7	328.1	284.7	248.2	232.6
20°	590.2	588.4	571.1	536.4	491.2	433.9	374.9	319.4	272.5	232.6	215.2
22.5°	602.3	598.8	581.5	543.3	491.2	432.2	368.0	307.2	256.9	217.0	199.6
25°	605.8	604.1	583.2	541.6	486.0	423.5	357.6	295.1	241.3	201.4	184.0
26°	605.8	604.1	583.2	539.8	482.6	418.3	352.4	289.9	236.1	194.4	178.8
27.5°	604.1	602.3	579.8	534.6	475.6	409.6	342.0	279.5	225.7	185.7	168.4
30°	593.6	590.2	567.6	522.5	460.0	392.3	324.6	263.8	210.0	170.1	154.5
32.5°	571.1	567.6	543.3	501.6	442.6	373.2	305.5	246.5	194.4	154.5	140.6
35°	543.3	539.8	515.5	475.6	418.3	359.3	284.7	227.4	177.1	142.3	128.4
37.5°	508.6	503.4	482.6	440.9	388.8	343.7	267.3	208.3	161.4	128.4	116.3
40°	465.2	463.5	444.4	406.2	354.1	315.9	256.9	208.3	147.5	116.3	105.9
42.5°	423.5	420.1	402.7	369.7	322.9	276.0	225.7	199.6	137.1	104.1	95.5
45°	380.1	376.7	361.0	333.3	289.9	243.0	243.0	171.8	118.0	95.5	86.8
47.5°	333.3	329.8	317.6	296.8	258.6	217.0	177.1	140.6	107.6	85.1	78.1
50°	286.4	288.1	277.7	256.9	227.4	189.2	152.7	118.0	92.0	76.4	69.4
52.5°	239.5	237.8	230.9	217.0	196.1	163.2	130.2	100.7	79.8	67.7	64.2
55°	192.7	194.4	190.9	182.3	164.9	140.6	109.4	86.8	71.2	60.8	57.3
57.5°	159.7	161.4	154.5	149.3	135.4	114.6	90.3	72.9	60.8	53.8	50.3
60°	131.9	133.7	128.4	121.5	111.1	92.0	72.9	60.8	53.8	48.6	45.1
62.5°	107.6	105.9	102.4	95.5	86.8	72.9	59.0	50.3	45.1	41.7	39.9
65°	83.3	83.3	79.8	74.6	67.7	57.3	46.9	41.7	38.2	34.7	33.0
67.5°	62.5	62.5	59.0	55.5	48.6	41.7	36.5	33.0	31.2	27.8	26.0
70°	43.4	43.4	41.7	39.9	34.7	29.5	27.8	24.3	22.6	20.8	19.1
72.5°	27.8	27.8	27.8	24.3	22.6	19.1	19.1	17.4	15.6	13.9	13.9
75°	13.9	15.6	13.9	13.9	12.2	12.2	10.4	10.4	8.7	8.7	6.9
77.5°	5.2	5.2	5.2	5.2	5.2	5.2	3.5	3.5	3.5	3.5	3.5
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	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°	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2	307.2
2.5°	302.0	296.8	293.3	288.1	284.7	281.2	279.5	277.7	277.7	277.7
5°	293.3	284.7	276.0	267.3	262.1	256.9	251.7	250.0	248.2	248.2
7.5°	282.9	269.0	256.9	246.5	237.8	232.6	227.4	223.9	222.2	222.2
10°	269.0	251.7	237.8	223.9	215.2	208.3	204.8	199.6	199.6	197.9
12.5°	253.4	232.6	217.0	204.8	196.1	187.5	182.3	178.8	177.1	177.1
15°	236.1	215.2	197.9	184.0	175.3	166.6	161.4	158.0	156.2	156.2
17.5°	218.7	196.1	178.8	164.9	156.2	147.5	142.3	138.9	138.9	137.1
20°	201.4	178.8	161.4	147.5	138.9	131.9	126.7	123.2	121.5	123.2
22.5°	185.7	163.2	145.8	133.7	123.2	116.3	111.1	109.4	107.6	107.6
25°	168.4	147.5	131.9	119.8	111.1	104.1	98.9	97.2	95.5	93.7
26°	163.2	142.3	126.7	114.6	105.9	98.9	95.5	92.0	90.3	90.3
27.5°	156.2	133.7	119.8	107.6	98.9	93.7	88.5	86.8	85.1	85.1
30°	140.6	121.5	107.6	97.2	90.3	83.3	79.8	78.1	76.4	76.4
32.5°	128.4	109.4	97.2	88.5	81.6	76.4	72.9	69.4	69.4	69.4
35°	116.3	98.9	88.5	79.8	72.9	67.7	66.0	64.2	62.5	62.5
37.5°	105.9	90.3	79.8	72.9	67.7	62.5	59.0	57.3	57.3	57.3
40°	95.5	83.3	72.9	66.0	60.8	57.3	53.8	52.1	52.1	52.1
42.5°	86.8	74.6	67.7	60.8	55.5	52.1	50.3	48.6	46.9	46.9
45°	79.8	69.4	60.8	55.5	52.1	48.6	45.1	43.4	43.4	43.4
47.5°	71.2	64.2	55.5	50.3	46.9	43.4	41.7	39.9	39.9	39.9
50°	66.0	59.0	52.1	46.9	43.4	39.9	38.2	36.5	36.5	36.5
52.5°	59.0	53.8	48.6	43.4	39.9	36.5	34.7	33.0	33.0	33.0
55°	53.8	48.6	43.4	39.9	36.5	33.0	31.2	29.5	29.5	29.5
57.5°	48.6	43.4	39.9	36.5	33.0	31.2	27.8	27.8	26.0	26.0
60°	43.4	38.2	34.7	33.0	29.5	27.8	24.3	22.6	22.6	22.6
62.5°	36.5	34.7	31.2	27.8	24.3	22.6	20.8	19.1	19.1	19.1
65°	31.2	29.5	26.0	22.6	20.8	19.1	17.4	15.6	15.6	15.6
67.5°	26.0	22.6	20.8	19.1	17.4	15.6	13.9	12.2	10.4	12.2
70°	19.1	17.4	15.6	13.9	12.2	10.4	8.7	8.7	6.9	6.9
72.5°	12.2	10.4	10.4	8.7	6.9	6.9	5.2	5.2	3.5	3.5
75°	6.9	6.9	5.2	5.2	3.5	3.5	1.7	1.7	1.7	1.7
77.5°	3.5	1.7	1.7	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)