

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: P3ART20R709740D010 E3LCWW1H

Issue Date: 5/8/2026

**Test Information**

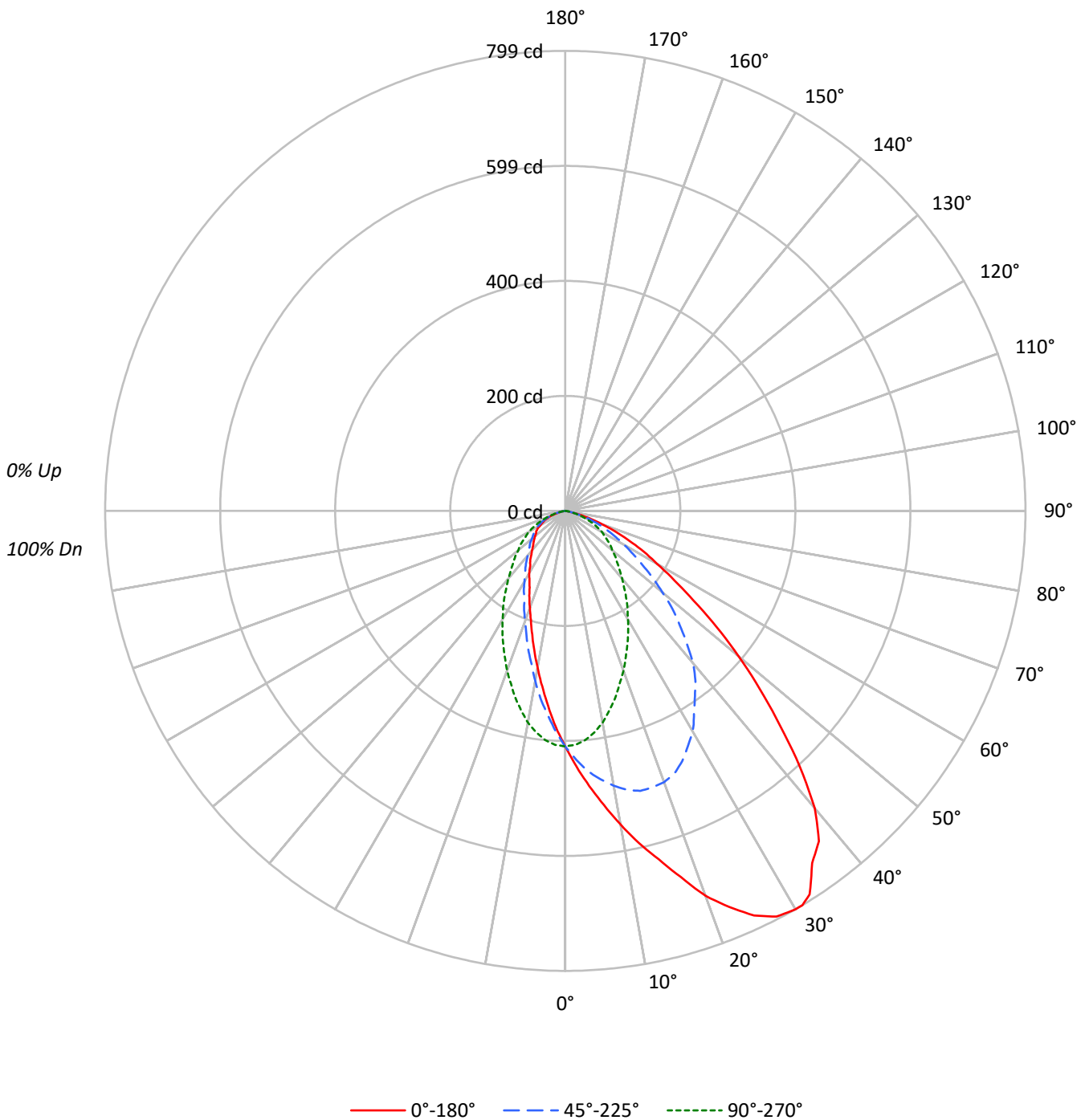
Test Method: LM-79-2019  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART20R709740D010 E3LCWW1H  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , E3LCWW1H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 832.0 lumens  
Efficiency: N/A  
Efficacy: 28.9 lumens/watt  
Spacing Criteria (0/90/45): 1.54 / 0.87 / 1.18  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 28.8  
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		
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76		
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66		
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58		
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51		
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46		
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41		
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37		
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34		
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31		

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

	0°	45°	90°	135°	180°
0°	89686	89686	89686	89686	89686
5°	105635	99912	87937	78054	74928
10°	123177	107903	83165	66844	61589
15°	142203	114303	76209	56345	50443
20°	166031	116957	68956	47441	41934
25°	187608	116112	61770	40599	35470
30°	202310	111941	55072	35904	31726
35°	199966	105042	49362	32284	28482
40°	192847	98785	43997	29083	25705
45°	163490	87234	39601	27135	24189
50°	133863	74983	36297	25790	23402
55°	103949	62354	34331	25309	23512
60°	80871	51838	32147	24866	21753
65°	63768	42910	28226	23297	20858
70°	43982	31800	22760	19683	18208
75°	22028	18046	16013	13979	12031
80°	3031	5935	8966	5935	3031
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 163490 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.3	4.6
10°-20°	106.5	12.8
20°-30°	157.0	18.9
30°-40°	176.0	21.2
40°-50°	154.8	18.6
50°-60°	110.7	13.3
60°-70°	65.6	7.9
70°-80°	22.0	2.6
80°-90°	1.1	0.1
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°	301.8	36.3
0°-40°	477.9	57.4
0°-60°	743.4	89.3
0°-90°	832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	832.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	409	409	409	409	409	
5°	480	454	400	355	340	48
15°	626	504	336	248	222	181
25°	775	480	255	168	147	356
35°	747	392	184	121	106	469
45°	527	281	128	88	78	408
55°	272	163	90	66	62	248
65°	123	83	54	45	40	123
75°	26	21	19	16	14	32
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°	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0
2.5°	444.4	444.4	444.4	439.7	439.7	432.6	427.9	420.8	416.1	409.0	406.6
5°	479.9	479.9	475.2	470.4	463.3	453.9	442.1	430.2	416.1	404.2	399.5
7.5°	515.3	517.7	510.6	501.2	487.0	470.4	453.9	435.0	413.7	397.1	387.7
10°	553.2	553.2	543.7	529.5	508.2	484.6	458.6	432.6	406.6	383.0	373.5
12.5°	591.0	588.6	576.8	555.5	529.5	496.4	461.0	427.9	397.1	368.8	354.6
15°	626.4	626.4	609.9	583.9	546.1	503.5	461.0	418.4	383.0	349.9	335.7
17.5°	666.6	666.6	645.4	605.2	557.9	503.5	453.9	406.6	366.4	331.0	314.4
20°	711.5	709.2	678.5	624.1	562.6	501.2	444.4	392.4	347.5	309.7	295.5
22.5°	744.6	742.3	706.8	640.6	565.0	494.1	427.9	373.5	328.6	290.8	274.2
25°	775.4	770.6	730.5	647.7	560.3	479.9	411.3	352.2	309.7	271.9	255.3
27.5°	794.3	791.9	747.0	645.4	548.4	461.0	390.1	333.3	288.4	250.6	236.4
30°	799.0	801.4	747.0	633.5	529.5	442.1	368.8	312.0	267.1	234.0	217.5
31°	799.0	801.4	742.3	626.4	522.4	432.6	359.3	304.9	257.7	224.6	210.4
32.5°	789.6	784.8	735.2	614.6	505.9	416.1	347.5	293.1	245.9	212.8	200.9
35°	747.0	749.4	711.5	588.6	482.2	392.4	323.9	269.5	224.6	196.2	184.4
37.5°	723.4	723.4	654.8	553.2	456.2	371.1	295.5	243.5	205.7	179.7	167.8
40°	673.7	666.6	602.8	515.3	425.5	345.1	278.9	226.9	189.1	163.1	153.7
42.5°	602.8	595.7	546.1	482.2	385.3	312.0	264.8	200.9	170.2	148.9	139.5
45°	527.2	522.4	484.6	425.5	347.5	281.3	229.3	184.4	156.0	134.7	127.7
47.5°	458.6	451.5	423.1	378.2	314.4	252.9	198.6	165.5	139.5	122.9	118.2
50°	392.4	390.1	366.4	331.0	278.9	219.8	174.9	146.6	127.7	113.5	106.4
52.5°	331.0	326.2	314.4	286.0	243.5	191.5	153.7	130.0	113.5	104.0	99.3
55°	271.9	271.9	260.0	241.1	208.0	163.1	134.7	115.8	101.6	94.6	89.8
57.5°	224.6	224.6	215.1	203.3	172.6	139.5	118.2	101.6	92.2	85.1	80.4
60°	184.4	184.4	177.3	165.5	144.2	118.2	101.6	89.8	82.7	75.6	73.3
62.5°	153.7	151.3	146.6	134.7	118.2	99.3	87.5	78.0	70.9	66.2	63.8
65°	122.9	120.6	115.8	106.4	94.6	82.7	73.3	66.2	61.5	56.7	54.4
67.5°	94.6	94.6	89.8	82.7	73.3	66.2	59.1	54.4	49.6	47.3	44.9
70°	68.6	68.6	66.2	61.5	54.4	49.6	44.9	42.6	40.2	37.8	35.5
72.5°	47.3	47.3	44.9	42.6	37.8	35.5	30.7	30.7	28.4	28.4	26.0
75°	26.0	26.0	26.0	23.6	23.6	21.3	21.3	21.3	18.9	18.9	18.9
77.5°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
80°	2.4	2.4	2.4	2.4	4.7	4.7	4.7	4.7	7.1	7.1	7.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4	2.4
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°	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0
2.5°	404.2	397.1	392.4	390.1	383.0	380.6	378.2	375.9	375.9	375.9
5°	394.8	383.0	371.1	364.0	354.6	349.9	345.1	342.8	340.4	340.4
7.5°	378.2	364.0	349.9	338.0	328.6	319.1	314.4	309.7	309.7	307.3
10°	361.7	342.8	326.2	309.7	300.2	288.4	283.7	278.9	276.6	276.6
12.5°	342.8	319.1	300.2	286.0	271.9	262.4	255.3	250.6	248.2	248.2
15°	321.5	297.9	276.6	262.4	248.2	236.4	229.3	224.6	222.2	222.2
17.5°	300.2	276.6	252.9	238.8	224.6	212.8	208.0	203.3	200.9	198.6
20°	281.3	252.9	234.0	215.1	203.3	193.8	186.8	182.0	179.7	179.7
22.5°	260.0	234.0	212.8	198.6	186.8	177.3	167.8	165.5	163.1	163.1
25°	238.8	215.1	196.2	182.0	167.8	160.7	153.7	148.9	148.9	146.6
27.5°	222.2	198.6	179.7	165.5	156.0	146.6	141.8	137.1	134.7	134.7
30°	203.3	182.0	165.5	153.7	141.8	134.7	130.0	125.3	125.3	125.3
31°	198.6	177.3	160.7	146.6	137.1	130.0	125.3	122.9	120.6	120.6
32.5°	186.8	167.8	151.3	139.5	130.0	122.9	118.2	115.8	115.8	113.5
35°	172.6	153.7	139.5	127.7	120.6	113.5	108.7	106.4	106.4	106.4
37.5°	158.4	141.8	127.7	118.2	111.1	104.0	101.6	96.9	96.9	96.9
40°	144.2	130.0	118.2	108.7	101.6	96.9	94.6	92.2	89.8	89.8
42.5°	132.4	118.2	108.7	101.6	94.6	89.8	87.5	85.1	85.1	82.7
45°	120.6	108.7	101.6	94.6	87.5	85.1	82.7	80.4	78.0	78.0
47.5°	111.1	101.6	92.2	87.5	82.7	78.0	75.6	75.6	73.3	73.3
50°	101.6	92.2	85.1	80.4	75.6	73.3	70.9	70.9	68.6	68.6
52.5°	94.6	85.1	80.4	75.6	70.9	68.6	66.2	66.2	63.8	63.8
55°	85.1	78.0	73.3	70.9	66.2	63.8	61.5	59.1	59.1	61.5
57.5°	78.0	73.3	68.6	66.2	61.5	59.1	56.7	56.7	54.4	56.7
60°	70.9	66.2	61.5	59.1	56.7	54.4	52.0	49.6	49.6	49.6
62.5°	63.8	59.1	56.7	52.0	49.6	49.6	47.3	47.3	47.3	44.9
65°	54.4	52.0	49.6	47.3	44.9	42.6	42.6	40.2	40.2	40.2
67.5°	44.9	42.6	40.2	40.2	37.8	35.5	35.5	35.5	35.5	33.1
70°	35.5	33.1	33.1	30.7	30.7	30.7	28.4	28.4	28.4	28.4
72.5°	26.0	26.0	23.6	23.6	23.6	23.6	21.3	21.3	21.3	21.3
75°	18.9	18.9	18.9	16.5	16.5	16.5	14.2	14.2	14.2	14.2
77.5°	11.8	11.8	11.8	11.8	11.8	9.5	9.5	9.5	9.5	9.5
80°	7.1	7.1	7.1	7.1	4.7	4.7	4.7	4.7	4.7	2.4
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	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)