

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: P3ART20R709835D010 E3LCWW1H

Issue Date: 5/8/2026

**Test Information**

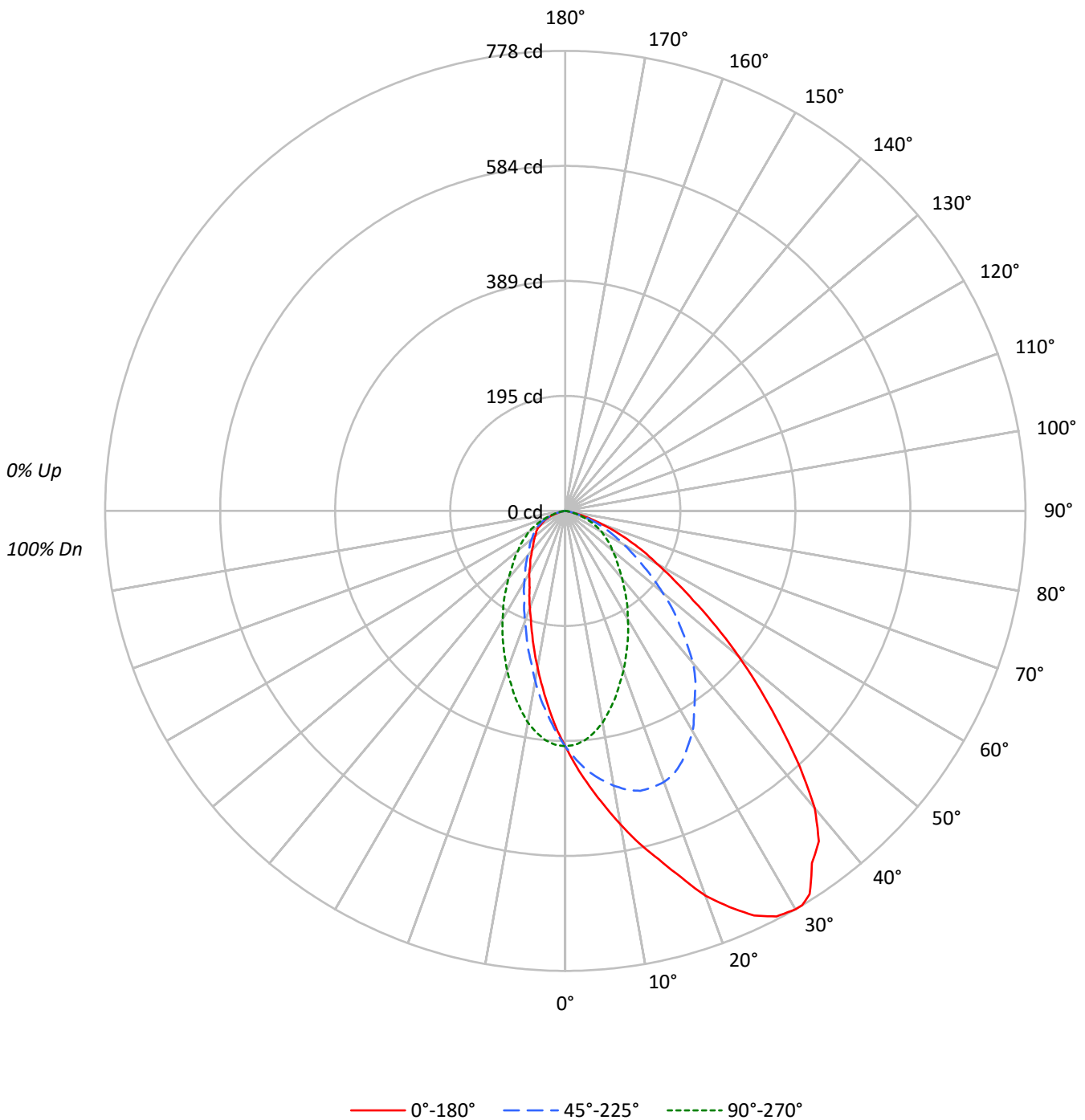
Test Method: LM-79-2019  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART20R709835D010 E3LCWW1H  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 98CRI , E3LCWW1H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 810.0 lumens  
Efficiency: N/A  
Efficacy: 29.6 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): 27.4  
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	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76	76	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66	66	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58	58	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51	51	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46	46	46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41	41	41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37	37	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34	34	34
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31	31	31

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

	0°	45°	90°	135°	180°
0°	87296	87296	87296	87296	87296
5°	102839	97270	85604	75985	72947
10°	119904	105053	80960	65085	59963
15°	138457	111283	74189	54870	49104
20°	161644	113853	67136	46181	40814
25°	182648	113039	60149	39535	34526
30°	196967	108979	53603	34967	30891
35°	194693	102258	48051	31427	27733
40°	187752	96180	42823	28339	25047
45°	159148	84939	38547	26421	23537
50°	130316	73004	35342	25108	22754
55°	101196	60710	33452	24620	22862
60°	78722	50478	31269	24209	21183
65°	62108	41820	27448	22674	20288
70°	42764	30967	22119	19170	17695
75°	21435	17538	15589	13640	11692
80°	2904	5809	8713	5809	2904
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 159148 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.2	4.6
10°-20°	103.7	12.8
20°-30°	152.9	18.9
30°-40°	171.4	21.2
40°-50°	150.7	18.6
50°-60°	107.8	13.3
60°-70°	63.8	7.9
70°-80°	21.4	2.6
80°-90°	1.0	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°	293.8	36.3
0°-40°	465.2	57.4
0°-60°	723.7	89.3
0°-90°	810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	810.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	398	398	398	398	398	
5°	467	442	389	345	331	47
15°	610	490	327	242	216	176
25°	755	467	249	163	143	347
35°	727	382	180	117	104	457
45°	513	274	124	85	76	397
55°	265	159	88	64	60	242
65°	120	81	53	44	39	120
75°	25	21	18	16	14	31
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°	398.1	398.1	398.1	398.1	398.1	398.1	398.1	398.1	398.1	398.1	398.1
2.5°	432.7	432.7	432.7	428.1	428.1	421.2	416.6	409.7	405.1	398.1	395.8
5°	467.2	467.2	462.6	458.0	451.1	441.9	430.4	418.9	405.1	393.5	388.9
7.5°	501.7	504.0	497.1	487.9	474.1	458.0	441.9	423.5	402.8	386.6	377.4
10°	538.5	538.5	529.3	515.5	494.8	471.8	446.5	421.2	395.8	372.8	363.6
12.5°	575.4	573.1	561.6	540.8	515.5	483.3	448.8	416.6	386.6	359.0	345.2
15°	609.9	609.9	593.8	568.5	531.6	490.2	448.8	407.4	372.8	340.6	326.8
17.5°	649.0	649.0	628.3	589.2	543.1	490.2	441.9	395.8	356.7	322.2	306.1
20°	692.7	690.4	660.5	607.6	547.7	487.9	432.7	382.0	338.3	301.5	287.7
22.5°	725.0	722.7	688.1	623.7	550.0	481.0	416.6	363.6	319.9	283.1	267.0
25°	754.9	750.3	711.1	630.6	545.4	467.2	400.5	342.9	301.5	264.7	248.6
27.5°	773.3	771.0	727.3	628.3	533.9	448.8	379.7	324.5	280.8	244.0	230.1
30°	777.9	780.2	727.3	616.8	515.5	430.4	359.0	303.8	260.1	227.8	211.7
31°	777.9	780.2	722.7	609.9	508.6	421.2	349.8	296.9	250.9	218.6	204.8
32.5°	768.7	764.1	715.7	598.4	492.5	405.1	338.3	285.4	239.3	207.1	195.6
35°	727.3	729.6	692.7	573.1	469.5	382.0	315.3	262.4	218.6	191.0	179.5
37.5°	704.2	704.2	637.5	538.5	444.2	361.3	287.7	237.0	200.2	174.9	163.4
40°	655.9	649.0	586.9	501.7	414.3	336.0	271.6	220.9	184.1	158.8	149.6
42.5°	586.9	580.0	531.6	469.5	375.1	303.8	257.8	195.6	165.7	145.0	135.8
45°	513.2	508.6	471.8	414.3	338.3	273.9	223.2	179.5	151.9	131.2	124.3
47.5°	446.5	439.6	412.0	368.2	306.1	246.3	193.3	161.1	135.8	119.7	115.1
50°	382.0	379.7	356.7	322.2	271.6	214.0	170.3	142.7	124.3	110.5	103.6
52.5°	322.2	317.6	306.1	278.5	237.0	186.4	149.6	126.6	110.5	101.3	96.7
55°	264.7	264.7	253.2	234.7	202.5	158.8	131.2	112.8	99.0	92.1	87.5
57.5°	218.6	218.6	209.4	197.9	168.0	135.8	115.1	99.0	89.8	82.9	78.2
60°	179.5	179.5	172.6	161.1	140.4	115.1	99.0	87.5	80.6	73.6	71.3
62.5°	149.6	147.3	142.7	131.2	115.1	96.7	85.2	75.9	69.0	64.4	62.1
65°	119.7	117.4	112.8	103.6	92.1	80.6	71.3	64.4	59.8	55.2	52.9
67.5°	92.1	92.1	87.5	80.6	71.3	64.4	57.5	52.9	48.3	46.0	43.7
70°	66.7	66.7	64.4	59.8	52.9	48.3	43.7	41.4	39.1	36.8	34.5
72.5°	46.0	46.0	43.7	41.4	36.8	34.5	29.9	29.9	27.6	27.6	25.3
75°	25.3	25.3	25.3	23.0	23.0	20.7	20.7	20.7	18.4	18.4	18.4
77.5°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
80°	2.3	2.3	2.3	2.3	4.6	4.6	4.6	4.6	6.9	6.9	6.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	2.3	2.3	2.3
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°	398.1	398.1	398.1	398.1	398.1	398.1	398.1	398.1	398.1	398.1
2.5°	393.5	386.6	382.0	379.7	372.8	370.5	368.2	365.9	365.9	365.9
5°	384.3	372.8	361.3	354.4	345.2	340.6	336.0	333.7	331.4	331.4
7.5°	368.2	354.4	340.6	329.1	319.9	310.7	306.1	301.5	301.5	299.2
10°	352.1	333.7	317.6	301.5	292.3	280.8	276.2	271.6	269.3	269.3
12.5°	333.7	310.7	292.3	278.5	264.7	255.5	248.6	244.0	241.7	241.7
15°	313.0	290.0	269.3	255.5	241.7	230.1	223.2	218.6	216.3	216.3
17.5°	292.3	269.3	246.3	232.4	218.6	207.1	202.5	197.9	195.6	193.3
20°	273.9	246.3	227.8	209.4	197.9	188.7	181.8	177.2	174.9	174.9
22.5°	253.2	227.8	207.1	193.3	181.8	172.6	163.4	161.1	158.8	158.8
25°	232.4	209.4	191.0	177.2	163.4	156.5	149.6	145.0	145.0	142.7
27.5°	216.3	193.3	174.9	161.1	151.9	142.7	138.1	133.5	131.2	131.2
30°	197.9	177.2	161.1	149.6	138.1	131.2	126.6	122.0	122.0	122.0
31°	193.3	172.6	156.5	142.7	133.5	126.6	122.0	119.7	117.4	117.4
32.5°	181.8	163.4	147.3	135.8	126.6	119.7	115.1	112.8	112.8	110.5
35°	168.0	149.6	135.8	124.3	117.4	110.5	105.9	103.6	103.6	103.6
37.5°	154.2	138.1	124.3	115.1	108.2	101.3	99.0	94.4	94.4	94.4
40°	140.4	126.6	115.1	105.9	99.0	94.4	92.1	89.8	87.5	87.5
42.5°	128.9	115.1	105.9	99.0	92.1	87.5	85.2	82.9	82.9	80.6
45°	117.4	105.9	99.0	92.1	85.2	82.9	80.6	78.2	75.9	75.9
47.5°	108.2	99.0	89.8	85.2	80.6	75.9	73.6	73.6	71.3	71.3
50°	99.0	89.8	82.9	78.2	73.6	71.3	69.0	69.0	66.7	66.7
52.5°	92.1	82.9	78.2	73.6	69.0	66.7	64.4	64.4	62.1	62.1
55°	82.9	75.9	71.3	69.0	64.4	62.1	59.8	57.5	57.5	59.8
57.5°	75.9	71.3	66.7	64.4	59.8	57.5	55.2	55.2	52.9	55.2
60°	69.0	64.4	59.8	57.5	55.2	52.9	50.6	48.3	48.3	48.3
62.5°	62.1	57.5	55.2	50.6	48.3	48.3	46.0	46.0	46.0	43.7
65°	52.9	50.6	48.3	46.0	43.7	41.4	41.4	39.1	39.1	39.1
67.5°	43.7	41.4	39.1	39.1	36.8	34.5	34.5	34.5	34.5	32.2
70°	34.5	32.2	32.2	29.9	29.9	29.9	27.6	27.6	27.6	27.6
72.5°	25.3	25.3	23.0	23.0	23.0	23.0	20.7	20.7	20.7	20.7
75°	18.4	18.4	18.4	16.1	16.1	16.1	13.8	13.8	13.8	13.8
77.5°	11.5	11.5	11.5	11.5	11.5	9.2	9.2	9.2	9.2	9.2
80°	6.9	6.9	6.9	6.9	4.6	4.6	4.6	4.6	4.6	2.3
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	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)