

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: P1446579

Luminaire Tested: P3ART13R709735DE010 E3LCWW1GPH

Issue Date: 5/8/2026

**Test Information**

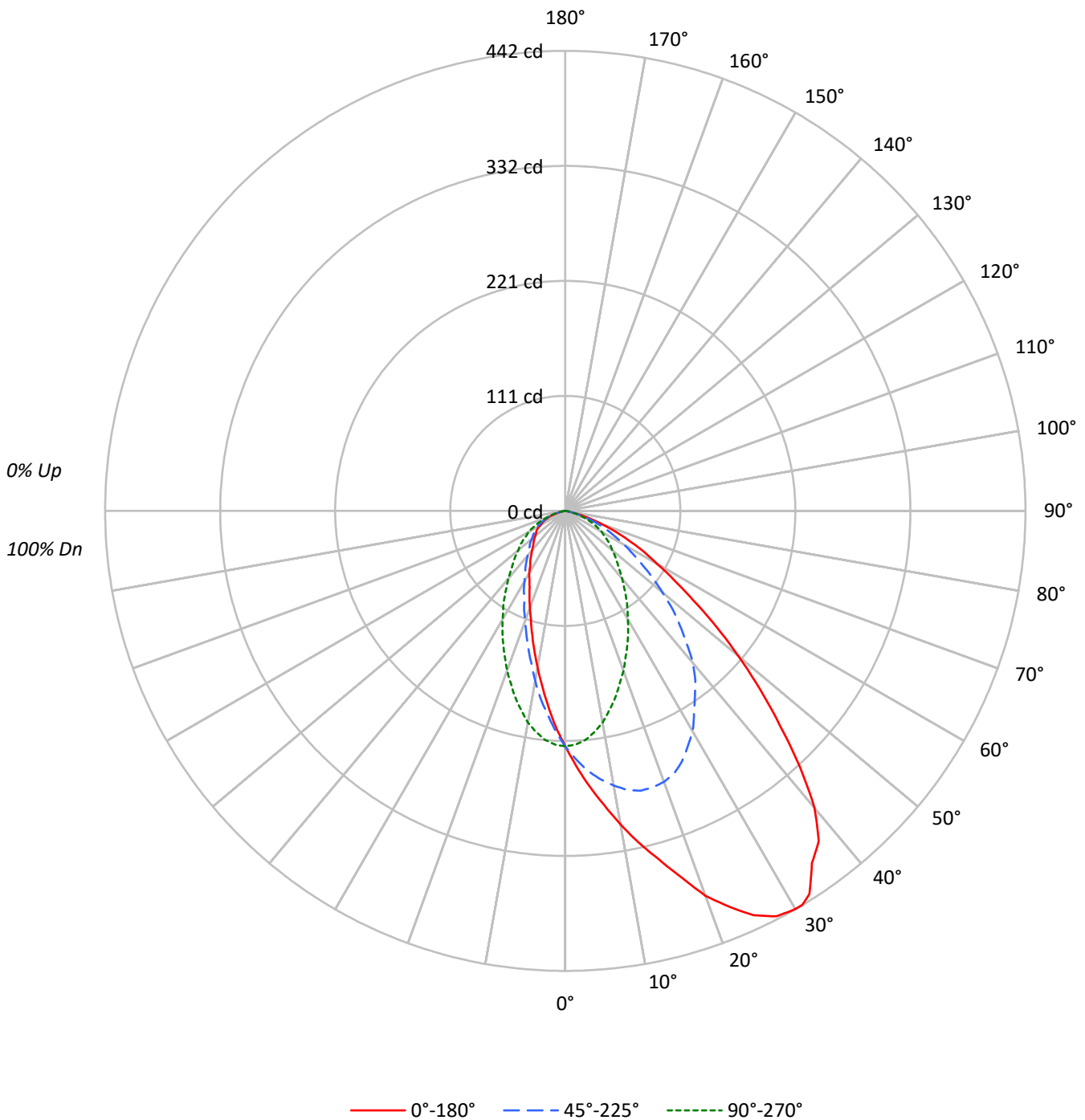
Test Method: LM-79-2019  
Report Number: P1446579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709735DE010 E3LCWW1GPH  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , E3LCWW1GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 460.0 lumens  
Efficiency: N/A  
Efficacy: 31.5 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): 14.6  
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	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°	49579	49579	49579	49579	49579
5°	58397	55228	48624	43143	41426
10°	68090	59652	45980	36962	34045
15°	78638	63201	42134	31147	27900
20°	91801	64662	38130	26229	23172
25°	103724	64189	34163	22453	19598
30°	111865	61883	30435	19851	17547
35°	110557	58089	27278	17855	15740
40°	106628	54617	24331	16087	14227
45°	90397	48222	21894	15009	13366
50°	74027	41483	20059	14260	12929
55°	57460	34484	19001	13992	12998
60°	44689	28638	17762	13771	12017
65°	35283	23712	15618	12868	11519
70°	24299	17567	12566	10899	10066
75°	12200	9997	8896	7710	6608
80°	1642	3283	4925	3283	1642
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 90397 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.2	4.6
10°-20°	58.9	12.8
20°-30°	86.8	18.9
30°-40°	97.3	21.2
40°-50°	85.6	18.6
50°-60°	61.2	13.3
60°-70°	36.3	7.9
70°-80°	12.2	2.6
80°-90°	0.6	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°	166.9	36.3
0°-40°	264.2	57.4
0°-60°	411.0	89.3
0°-90°	460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	460.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	226	226	226	226	226	
5°	265	251	221	196	188	27
15°	346	278	186	137	123	100
25°	429	265	141	93	81	197
35°	413	217	102	67	59	259
45°	292	156	71	48	43	225
55°	150	90	50	37	34	137
65°	68	46	30	25	22	68
75°	14	12	10	9	8	17
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°	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1
2.5°	245.7	245.7	245.7	243.1	243.1	239.2	236.6	232.6	230.0	226.1	224.8
5°	265.3	265.3	262.7	260.1	256.2	250.9	244.4	237.9	230.0	223.5	220.9
7.5°	284.9	286.2	282.3	277.1	269.2	260.1	250.9	240.5	228.7	219.6	214.3
10°	305.8	305.8	300.6	292.8	281.0	267.9	253.6	239.2	224.8	211.7	206.5
12.5°	326.7	325.4	318.9	307.1	292.8	274.5	254.9	236.6	219.6	203.9	196.0
15°	346.4	346.4	337.2	322.8	301.9	278.4	254.9	231.3	211.7	193.4	185.6
17.5°	368.6	368.6	356.8	334.6	308.4	278.4	250.9	224.8	202.6	183.0	173.8
20°	393.4	392.1	375.1	345.0	311.1	277.1	245.7	217.0	192.1	171.2	163.4
22.5°	411.7	410.4	390.8	354.2	312.4	273.2	236.6	206.5	181.7	160.8	151.6
25°	428.7	426.1	403.9	358.1	309.8	265.3	227.4	194.7	171.2	150.3	141.2
27.5°	439.1	437.8	413.0	356.8	303.2	254.9	215.7	184.3	159.5	138.5	130.7
30°	441.8	443.1	413.0	350.3	292.8	244.4	203.9	172.5	147.7	129.4	120.2
31°	441.8	443.1	410.4	346.4	288.8	239.2	198.7	168.6	142.5	124.2	116.3
32.5°	436.5	433.9	406.5	339.8	279.7	230.0	192.1	162.1	135.9	117.6	111.1
35°	413.0	414.3	393.4	325.4	266.6	217.0	179.1	149.0	124.2	108.5	101.9
37.5°	399.9	399.9	362.0	305.8	252.2	205.2	163.4	134.6	113.7	99.3	92.8
40°	372.5	368.6	333.3	284.9	235.3	190.8	154.2	125.5	104.6	90.2	85.0
42.5°	333.3	329.4	301.9	266.6	213.0	172.5	146.4	111.1	94.1	82.3	77.1
45°	291.5	288.8	267.9	235.3	192.1	155.5	126.8	101.9	86.3	74.5	70.6
47.5°	253.6	249.6	234.0	209.1	173.8	139.8	109.8	91.5	77.1	68.0	65.3
50°	217.0	215.7	202.6	183.0	154.2	121.6	96.7	81.0	70.6	62.7	58.8
52.5°	183.0	180.4	173.8	158.1	134.6	105.9	85.0	71.9	62.7	57.5	54.9
55°	150.3	150.3	143.8	133.3	115.0	90.2	74.5	64.0	56.2	52.3	49.7
57.5°	124.2	124.2	118.9	112.4	95.4	77.1	65.3	56.2	51.0	47.1	44.4
60°	101.9	101.9	98.0	91.5	79.7	65.3	56.2	49.7	45.7	41.8	40.5
62.5°	85.0	83.6	81.0	74.5	65.3	54.9	48.4	43.1	39.2	36.6	35.3
65°	68.0	66.7	64.0	58.8	52.3	45.7	40.5	36.6	34.0	31.4	30.1
67.5°	52.3	52.3	49.7	45.7	40.5	36.6	32.7	30.1	27.4	26.1	24.8
70°	37.9	37.9	36.6	34.0	30.1	27.4	24.8	23.5	22.2	20.9	19.6
72.5°	26.1	26.1	24.8	23.5	20.9	19.6	17.0	17.0	15.7	15.7	14.4
75°	14.4	14.4	14.4	13.1	13.1	11.8	11.8	11.8	10.5	10.5	10.5
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
80°	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6	3.9	3.9	3.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3
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°	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1
2.5°	223.5	219.6	217.0	215.7	211.7	210.4	209.1	207.8	207.8	207.8
5°	218.3	211.7	205.2	201.3	196.0	193.4	190.8	189.5	188.2	188.2
7.5°	209.1	201.3	193.4	186.9	181.7	176.4	173.8	171.2	171.2	169.9
10°	200.0	189.5	180.4	171.2	166.0	159.5	156.8	154.2	152.9	152.9
12.5°	189.5	176.4	166.0	158.1	150.3	145.1	141.2	138.5	137.2	137.2
15°	177.8	164.7	152.9	145.1	137.2	130.7	126.8	124.2	122.9	122.9
17.5°	166.0	152.9	139.8	132.0	124.2	117.6	115.0	112.4	111.1	109.8
20°	155.5	139.8	129.4	118.9	112.4	107.2	103.3	100.6	99.3	99.3
22.5°	143.8	129.4	117.6	109.8	103.3	98.0	92.8	91.5	90.2	90.2
25°	132.0	118.9	108.5	100.6	92.8	88.9	85.0	82.3	82.3	81.0
27.5°	122.9	109.8	99.3	91.5	86.3	81.0	78.4	75.8	74.5	74.5
30°	112.4	100.6	91.5	85.0	78.4	74.5	71.9	69.3	69.3	69.3
31°	109.8	98.0	88.9	81.0	75.8	71.9	69.3	68.0	66.7	66.7
32.5°	103.3	92.8	83.6	77.1	71.9	68.0	65.3	64.0	64.0	62.7
35°	95.4	85.0	77.1	70.6	66.7	62.7	60.1	58.8	58.8	58.8
37.5°	87.6	78.4	70.6	65.3	61.4	57.5	56.2	53.6	53.6	53.6
40°	79.7	71.9	65.3	60.1	56.2	53.6	52.3	51.0	49.7	49.7
42.5°	73.2	65.3	60.1	56.2	52.3	49.7	48.4	47.1	47.1	45.7
45°	66.7	60.1	56.2	52.3	48.4	47.1	45.7	44.4	43.1	43.1
47.5°	61.4	56.2	51.0	48.4	45.7	43.1	41.8	41.8	40.5	40.5
50°	56.2	51.0	47.1	44.4	41.8	40.5	39.2	39.2	37.9	37.9
52.5°	52.3	47.1	44.4	41.8	39.2	37.9	36.6	36.6	35.3	35.3
55°	47.1	43.1	40.5	39.2	36.6	35.3	34.0	32.7	32.7	34.0
57.5°	43.1	40.5	37.9	36.6	34.0	32.7	31.4	31.4	30.1	31.4
60°	39.2	36.6	34.0	32.7	31.4	30.1	28.8	27.4	27.4	27.4
62.5°	35.3	32.7	31.4	28.8	27.4	27.4	26.1	26.1	26.1	24.8
65°	30.1	28.8	27.4	26.1	24.8	23.5	23.5	22.2	22.2	22.2
67.5°	24.8	23.5	22.2	22.2	20.9	19.6	19.6	19.6	19.6	18.3
70°	19.6	18.3	18.3	17.0	17.0	17.0	15.7	15.7	15.7	15.7
72.5°	14.4	14.4	13.1	13.1	13.1	13.1	11.8	11.8	11.8	11.8
75°	10.5	10.5	10.5	9.1	9.1	9.1	7.8	7.8	7.8	7.8
77.5°	6.5	6.5	6.5	6.5	6.5	5.2	5.2	5.2	5.2	5.2
80°	3.9	3.9	3.9	3.9	2.6	2.6	2.6	2.6	2.6	1.3
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	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)