

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: P1446345

Luminaire Tested: P3ART17R709727DE010 E3LCWW1GPH

Issue Date: 5/8/2026

**Test Information**

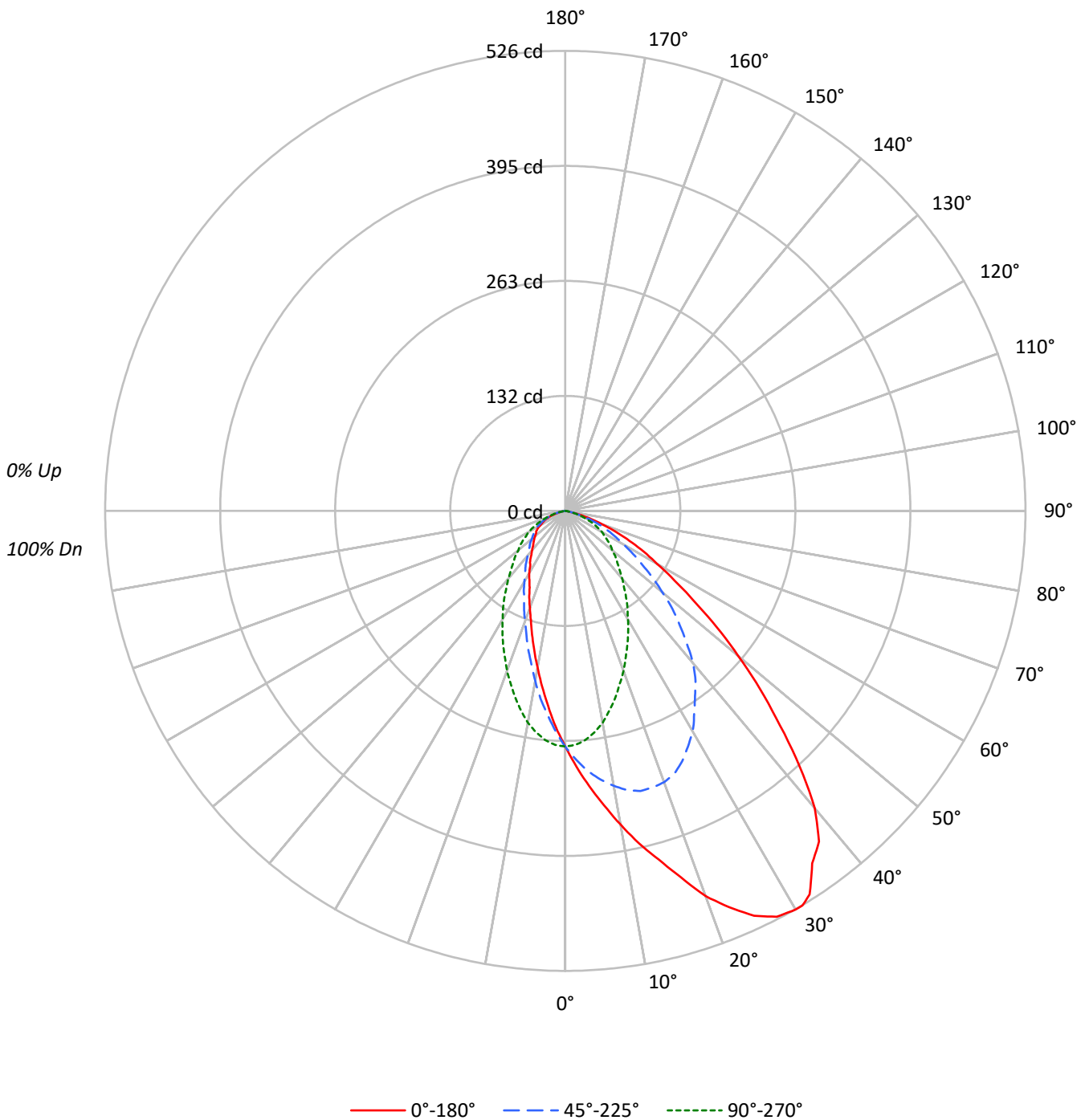
Test Method: LM-79-2019  
Report Number: P1446345  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART17R709727DE010 E3LCWW1GPH  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3LCWW1GPH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 548.0 lumens  
Efficiency: N/A  
Efficacy: 25.9 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): 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	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°	59074	59074	59074	59074	59074
5°	69579	65793	57913	51420	49351
10°	81116	71074	54775	44021	40569
15°	93667	75279	50193	37117	33235
20°	109373	77030	45411	31246	27606
25°	123564	76480	40696	26735	23348
30°	133261	73733	36259	23649	20889
35°	131705	69198	32498	21255	18765
40°	127038	65065	28969	19179	16946
45°	107670	57463	26080	17862	15940
50°	88185	49397	23914	16989	15420
55°	68471	41059	22632	16668	15483
60°	53241	34164	21183	16402	14341
65°	42028	28278	18575	15358	13750
70°	28979	20965	15003	12951	11989
75°	14488	11861	10590	9235	7879
80°	2020	3915	5935	3915	2020
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 107670 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.2	4.6
10°-20°	70.2	12.8
20°-30°	103.4	18.9
30°-40°	115.9	21.2
40°-50°	101.9	18.6
50°-60°	72.9	13.3
60°-70°	43.2	7.9
70°-80°	14.5	2.6
80°-90°	0.7	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°	198.8	36.3
0°-40°	314.7	57.4
0°-60°	489.6	89.3
0°-90°	548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	548.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	269	269	269	269	269	
5°	316	299	263	234	224	32
15°	413	332	221	164	146	119
25°	511	316	168	110	96	235
35°	492	258	121	79	70	309
45°	347	185	84	58	51	269
55°	179	107	59	44	40	164
65°	81	54	36	30	26	81
75°	17	14	12	11	9	21
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1446345

CATALOG NUMBER: P3ART17R709727DE010 E3LCWW1GPH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	269.4	269.4	269.4	269.4	269.4	269.4	269.4	269.4	269.4	269.4	269.4
2.5°	292.7	292.7	292.7	289.6	289.6	284.9	281.8	277.2	274.0	269.4	267.8
5°	316.1	316.1	313.0	309.8	305.2	298.9	291.2	283.4	274.0	266.3	263.1
7.5°	339.4	341.0	336.3	330.1	320.7	309.8	298.9	286.5	272.5	261.6	255.4
10°	364.3	364.3	358.1	348.8	334.8	319.2	302.1	284.9	267.8	252.2	246.0
12.5°	389.3	387.7	379.9	365.9	348.8	327.0	303.6	281.8	261.6	242.9	233.6
15°	412.6	412.6	401.7	384.6	359.7	331.6	303.6	275.6	252.2	230.4	221.1
17.5°	439.1	439.1	425.1	398.6	367.5	331.6	298.9	267.8	241.3	218.0	207.1
20°	468.7	467.1	446.9	411.1	370.6	330.1	292.7	258.5	228.9	204.0	194.6
22.5°	490.5	488.9	465.5	422.0	372.1	325.4	281.8	246.0	216.4	191.5	180.6
25°	510.7	507.6	481.1	426.6	369.0	316.1	270.9	232.0	204.0	179.1	168.2
27.5°	523.2	521.6	492.0	425.1	361.2	303.6	256.9	219.5	190.0	165.0	155.7
30°	526.3	527.8	492.0	417.3	348.8	291.2	242.9	205.5	175.9	154.1	143.2
31°	526.3	527.8	488.9	412.6	344.1	284.9	236.7	200.9	169.7	147.9	138.6
32.5°	520.0	516.9	484.2	404.8	333.2	274.0	228.9	193.1	161.9	140.1	132.3
35°	492.0	493.6	468.7	387.7	317.6	258.5	213.3	177.5	147.9	129.2	121.4
37.5°	476.4	476.4	431.3	364.3	300.5	244.5	194.6	160.4	135.5	118.3	110.5
40°	443.8	439.1	397.0	339.4	280.3	227.3	183.7	149.5	124.6	107.4	101.2
42.5°	397.0	392.4	359.7	317.6	253.8	205.5	174.4	132.3	112.1	98.1	91.9
45°	347.2	344.1	319.2	280.3	228.9	185.3	151.0	121.4	102.8	88.8	84.1
47.5°	302.1	297.4	278.7	249.1	207.1	166.6	130.8	109.0	91.9	81.0	77.9
50°	258.5	256.9	241.3	218.0	183.7	144.8	115.2	96.5	84.1	74.7	70.1
52.5°	218.0	214.9	207.1	188.4	160.4	126.1	101.2	85.6	74.7	68.5	65.4
55°	179.1	179.1	171.3	158.8	137.0	107.4	88.8	76.3	67.0	62.3	59.2
57.5°	147.9	147.9	141.7	133.9	113.7	91.9	77.9	67.0	60.7	56.1	52.9
60°	121.4	121.4	116.8	109.0	95.0	77.9	67.0	59.2	54.5	49.8	48.3
62.5°	101.2	99.6	96.5	88.8	77.9	65.4	57.6	51.4	46.7	43.6	42.0
65°	81.0	79.4	76.3	70.1	62.3	54.5	48.3	43.6	40.5	37.4	35.8
67.5°	62.3	62.3	59.2	54.5	48.3	43.6	38.9	35.8	32.7	31.1	29.6
70°	45.2	45.2	43.6	40.5	35.8	32.7	29.6	28.0	26.5	24.9	23.4
72.5°	31.1	31.1	29.6	28.0	24.9	23.4	20.2	20.2	18.7	18.7	17.1
75°	17.1	17.1	17.1	15.6	15.6	14.0	14.0	14.0	12.5	12.5	12.5
77.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
80°	1.6	1.6	1.6	1.6	3.1	3.1	3.1	3.1	4.7	4.7	4.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6
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



TEST NUMBER: P1446345

CATALOG NUMBER: P3ART17R709727DE010 E3LCWW1GPH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	269.4	269.4	269.4	269.4	269.4	269.4	269.4	269.4	269.4	269.4
2.5°	266.3	261.6	258.5	256.9	252.2	250.7	249.1	247.6	247.6	247.6
5°	260.0	252.2	244.5	239.8	233.6	230.4	227.3	225.8	224.2	224.2
7.5°	249.1	239.8	230.4	222.7	216.4	210.2	207.1	204.0	204.0	202.4
10°	238.2	225.8	214.9	204.0	197.7	190.0	186.8	183.7	182.2	182.2
12.5°	225.8	210.2	197.7	188.4	179.1	172.8	168.2	165.0	163.5	163.5
15°	211.8	196.2	182.2	172.8	163.5	155.7	151.0	147.9	146.4	146.4
17.5°	197.7	182.2	166.6	157.3	147.9	140.1	137.0	133.9	132.3	130.8
20°	185.3	166.6	154.1	141.7	133.9	127.7	123.0	119.9	118.3	118.3
22.5°	171.3	154.1	140.1	130.8	123.0	116.8	110.5	109.0	107.4	107.4
25°	157.3	141.7	129.2	119.9	110.5	105.9	101.2	98.1	98.1	96.5
27.5°	146.4	130.8	118.3	109.0	102.8	96.5	93.4	90.3	88.8	88.8
30°	133.9	119.9	109.0	101.2	93.4	88.8	85.6	82.5	82.5	82.5
31°	130.8	116.8	105.9	96.5	90.3	85.6	82.5	81.0	79.4	79.4
32.5°	123.0	110.5	99.6	91.9	85.6	81.0	77.9	76.3	76.3	74.7
35°	113.7	101.2	91.9	84.1	79.4	74.7	71.6	70.1	70.1	70.1
37.5°	104.3	93.4	84.1	77.9	73.2	68.5	67.0	63.8	63.8	63.8
40°	95.0	85.6	77.9	71.6	67.0	63.8	62.3	60.7	59.2	59.2
42.5°	87.2	77.9	71.6	67.0	62.3	59.2	57.6	56.1	56.1	54.5
45°	79.4	71.6	67.0	62.3	57.6	56.1	54.5	52.9	51.4	51.4
47.5°	73.2	67.0	60.7	57.6	54.5	51.4	49.8	49.8	48.3	48.3
50°	67.0	60.7	56.1	52.9	49.8	48.3	46.7	46.7	45.2	45.2
52.5°	62.3	56.1	52.9	49.8	46.7	45.2	43.6	43.6	42.0	42.0
55°	56.1	51.4	48.3	46.7	43.6	42.0	40.5	38.9	38.9	40.5
57.5°	51.4	48.3	45.2	43.6	40.5	38.9	37.4	37.4	35.8	37.4
60°	46.7	43.6	40.5	38.9	37.4	35.8	34.3	32.7	32.7	32.7
62.5°	42.0	38.9	37.4	34.3	32.7	32.7	31.1	31.1	31.1	29.6
65°	35.8	34.3	32.7	31.1	29.6	28.0	28.0	26.5	26.5	26.5
67.5°	29.6	28.0	26.5	26.5	24.9	23.4	23.4	23.4	23.4	21.8
70°	23.4	21.8	21.8	20.2	20.2	20.2	18.7	18.7	18.7	18.7
72.5°	17.1	17.1	15.6	15.6	15.6	15.6	14.0	14.0	14.0	14.0
75°	12.5	12.5	12.5	10.9	10.9	10.9	9.3	9.3	9.3	9.3
77.5°	7.8	7.8	7.8	7.8	7.8	6.2	6.2	6.2	6.2	6.2
80°	4.7	4.7	4.7	4.7	3.1	3.1	3.1	3.1	3.1	1.6
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	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)