

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: P3ART13R709840DE010 E3LCWW1H

Issue Date: 5/8/2026

**Test Information**

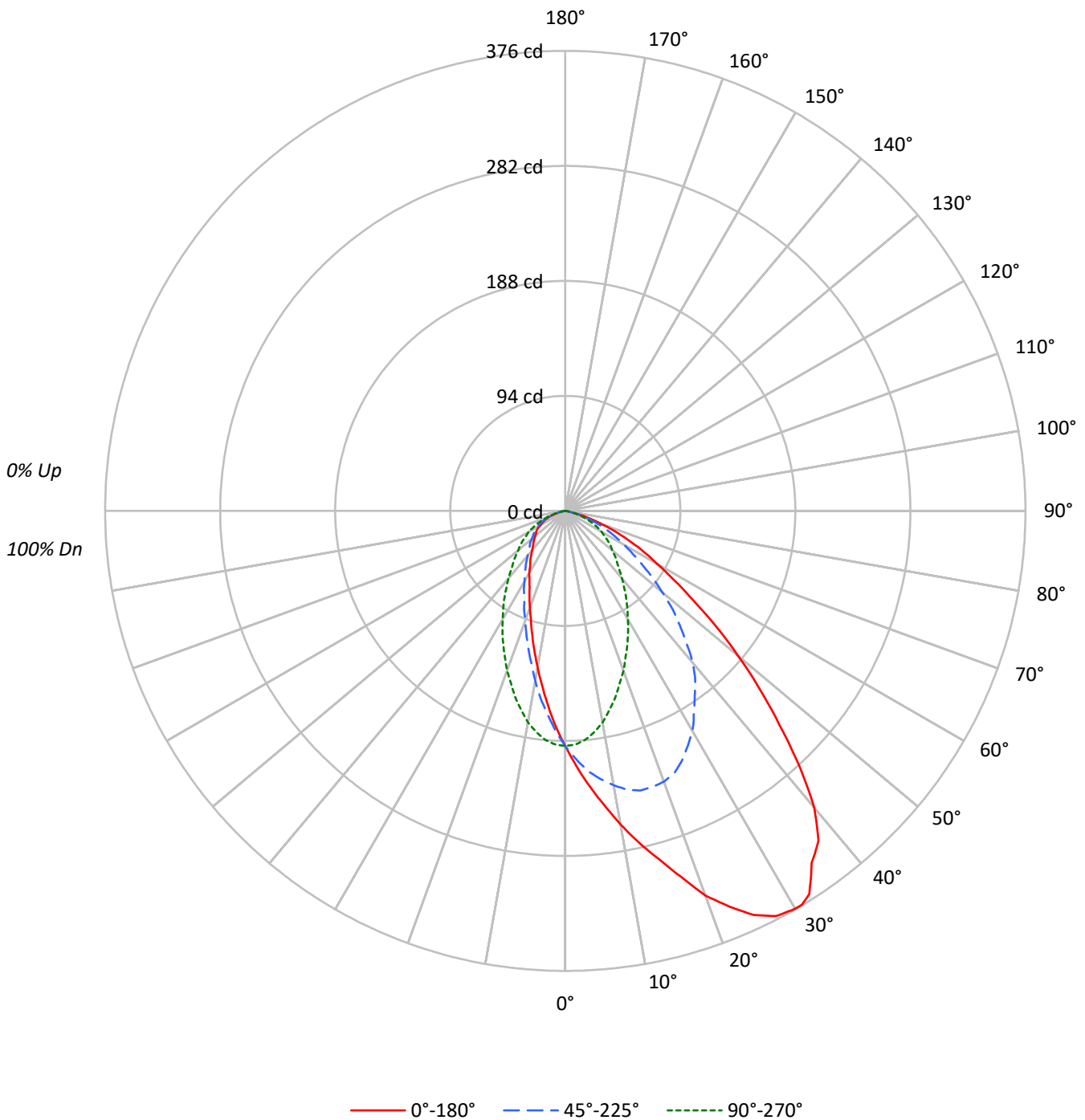
Test Method: LM-79-2019  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709840DE010 E3LCWW1H  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , E3LCWW1H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 391.0 lumens  
Efficiency: N/A  
Efficacy: 27.0 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): 14.5  
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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 CATALOG NUMBER: P3ART13R709840DE010 E3LCWW1H

**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	102	102	100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	88
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	78	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	68	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	60	60	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	53	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	47	47	46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	43	43	41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	39	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	35	35	34
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	32	32	31

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

	0°	45°	90°	135°	180°
0°	42146	42146	42146	42146	42146
5°	49637	46951	41316	36672	35219
10°	57892	50700	39077	31418	28946
15°	66834	53712	35823	26470	23700
20°	78033	54955	32413	22285	19695
25°	88166	54560	29034	19090	16670
30°	95078	52590	25877	16889	14914
35°	93987	49362	23209	15178	13385
40°	90627	46430	20667	13683	12080
45°	76814	40997	18607	12746	11381
50°	62906	35240	17057	12145	10985
55°	48858	29323	16133	11890	11049
60°	38023	24340	15087	11710	10218
65°	29990	20184	13283	10948	9806
70°	20645	14938	10707	9232	8527
75°	10336	8472	7540	6608	5676
80°	1389	2778	4167	2778	1389
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 76814 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.0	4.6
10°-20°	50.1	12.8
20°-30°	73.8	18.9
30°-40°	82.7	21.2
40°-50°	72.7	18.6
50°-60°	52.0	13.3
60°-70°	30.8	7.9
70°-80°	10.3	2.6
80°-90°	0.5	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
<b>0°-30°</b>	<b>141.8</b>	<b>36.3</b>
<b>0°-40°</b>	<b>224.6</b>	<b>57.4</b>
<b>0°-60°</b>	<b>349.3</b>	<b>89.3</b>
<b>0°-90°</b>	<b>391.0</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>391.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	192	192	192	192	192	
5°	226	213	188	167	160	23
15°	294	237	158	117	104	85
25°	364	226	120	79	69	168
35°	351	184	87	57	50	221
45°	248	132	60	41	37	192
55°	128	77	42	31	29	117
65°	58	39	26	21	19	58
75°	12	10	9	8	7	15
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°	192.2	192.2	192.2	192.2	192.2	192.2	192.2	192.2	192.2	192.2	192.2
2.5°	208.9	208.9	208.9	206.6	206.6	203.3	201.1	197.7	195.5	192.2	191.1
5°	225.5	225.5	223.3	221.1	217.7	213.3	207.7	202.2	195.5	190.0	187.7
7.5°	242.2	243.3	240.0	235.5	228.9	221.1	213.3	204.4	194.4	186.6	182.2
10°	260.0	260.0	255.5	248.9	238.9	227.7	215.5	203.3	191.1	180.0	175.5
12.5°	277.7	276.6	271.1	261.1	248.9	233.3	216.6	201.1	186.6	173.3	166.6
15°	294.4	294.4	286.6	274.4	256.6	236.6	216.6	196.6	180.0	164.4	157.8
17.5°	313.3	313.3	303.3	284.4	262.2	236.6	213.3	191.1	172.2	155.5	147.8
20°	334.4	333.3	318.8	293.3	264.4	235.5	208.9	184.4	163.3	145.5	138.9
22.5°	349.9	348.8	332.2	301.1	265.5	232.2	201.1	175.5	154.4	136.6	128.9
25°	364.4	362.2	343.3	304.4	263.3	225.5	193.3	165.5	145.5	127.8	120.0
27.5°	373.3	372.2	351.1	303.3	257.7	216.6	183.3	156.6	135.5	117.8	111.1
30°	375.5	376.6	351.1	297.7	248.9	207.7	173.3	146.6	125.5	110.0	102.2
31°	375.5	376.6	348.8	294.4	245.5	203.3	168.9	143.3	121.1	105.5	98.9
32.5°	371.1	368.8	345.5	288.8	237.7	195.5	163.3	137.8	115.5	100.0	94.4
35°	351.1	352.2	334.4	276.6	226.6	184.4	152.2	126.6	105.5	92.2	86.7
37.5°	339.9	339.9	307.7	260.0	214.4	174.4	138.9	114.4	96.7	84.4	78.9
40°	316.6	313.3	283.3	242.2	200.0	162.2	131.1	106.7	88.9	76.7	72.2
42.5°	283.3	280.0	256.6	226.6	181.1	146.6	124.4	94.4	80.0	70.0	65.5
45°	247.7	245.5	227.7	200.0	163.3	132.2	107.8	86.7	73.3	63.3	60.0
47.5°	215.5	212.2	198.9	177.8	147.8	118.9	93.3	77.8	65.5	57.8	55.5
50°	184.4	183.3	172.2	155.5	131.1	103.3	82.2	68.9	60.0	53.3	50.0
52.5°	155.5	153.3	147.8	134.4	114.4	90.0	72.2	61.1	53.3	48.9	46.7
55°	127.8	127.8	122.2	113.3	97.8	76.7	63.3	54.4	47.8	44.4	42.2
57.5°	105.5	105.5	101.1	95.5	81.1	65.5	55.5	47.8	43.3	40.0	37.8
60°	86.7	86.7	83.3	77.8	67.8	55.5	47.8	42.2	38.9	35.6	34.4
62.5°	72.2	71.1	68.9	63.3	55.5	46.7	41.1	36.7	33.3	31.1	30.0
65°	57.8	56.7	54.4	50.0	44.4	38.9	34.4	31.1	28.9	26.7	25.6
67.5°	44.4	44.4	42.2	38.9	34.4	31.1	27.8	25.6	23.3	22.2	21.1
70°	32.2	32.2	31.1	28.9	25.6	23.3	21.1	20.0	18.9	17.8	16.7
72.5°	22.2	22.2	21.1	20.0	17.8	16.7	14.4	14.4	13.3	13.3	12.2
75°	12.2	12.2	12.2	11.1	11.1	10.0	10.0	10.0	8.9	8.9	8.9
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
80°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2	3.3	3.3	3.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
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°	192.2	192.2	192.2	192.2	192.2	192.2	192.2	192.2	192.2	192.2
2.5°	190.0	186.6	184.4	183.3	180.0	178.9	177.8	176.6	176.6	176.6
5°	185.5	180.0	174.4	171.1	166.6	164.4	162.2	161.1	160.0	160.0
7.5°	177.8	171.1	164.4	158.9	154.4	150.0	147.8	145.5	145.5	144.4
10°	170.0	161.1	153.3	145.5	141.1	135.5	133.3	131.1	130.0	130.0
12.5°	161.1	150.0	141.1	134.4	127.8	123.3	120.0	117.8	116.6	116.6
15°	151.1	140.0	130.0	123.3	116.6	111.1	107.8	105.5	104.4	104.4
17.5°	141.1	130.0	118.9	112.2	105.5	100.0	97.8	95.5	94.4	93.3
20°	132.2	118.9	110.0	101.1	95.5	91.1	87.8	85.5	84.4	84.4
22.5°	122.2	110.0	100.0	93.3	87.8	83.3	78.9	77.8	76.7	76.7
25°	112.2	101.1	92.2	85.5	78.9	75.5	72.2	70.0	70.0	68.9
27.5°	104.4	93.3	84.4	77.8	73.3	68.9	66.7	64.4	63.3	63.3
30°	95.5	85.5	77.8	72.2	66.7	63.3	61.1	58.9	58.9	58.9
31°	93.3	83.3	75.5	68.9	64.4	61.1	58.9	57.8	56.7	56.7
32.5°	87.8	78.9	71.1	65.5	61.1	57.8	55.5	54.4	54.4	53.3
35°	81.1	72.2	65.5	60.0	56.7	53.3	51.1	50.0	50.0	50.0
37.5°	74.4	66.7	60.0	55.5	52.2	48.9	47.8	45.5	45.5	45.5
40°	67.8	61.1	55.5	51.1	47.8	45.5	44.4	43.3	42.2	42.2
42.5°	62.2	55.5	51.1	47.8	44.4	42.2	41.1	40.0	40.0	38.9
45°	56.7	51.1	47.8	44.4	41.1	40.0	38.9	37.8	36.7	36.7
47.5°	52.2	47.8	43.3	41.1	38.9	36.7	35.6	35.6	34.4	34.4
50°	47.8	43.3	40.0	37.8	35.6	34.4	33.3	33.3	32.2	32.2
52.5°	44.4	40.0	37.8	35.6	33.3	32.2	31.1	31.1	30.0	30.0
55°	40.0	36.7	34.4	33.3	31.1	30.0	28.9	27.8	27.8	28.9
57.5°	36.7	34.4	32.2	31.1	28.9	27.8	26.7	26.7	25.6	26.7
60°	33.3	31.1	28.9	27.8	26.7	25.6	24.4	23.3	23.3	23.3
62.5°	30.0	27.8	26.7	24.4	23.3	23.3	22.2	22.2	22.2	21.1
65°	25.6	24.4	23.3	22.2	21.1	20.0	20.0	18.9	18.9	18.9
67.5°	21.1	20.0	18.9	18.9	17.8	16.7	16.7	16.7	16.7	15.6
70°	16.7	15.6	15.6	14.4	14.4	14.4	13.3	13.3	13.3	13.3
72.5°	12.2	12.2	11.1	11.1	11.1	11.1	10.0	10.0	10.0	10.0
75°	8.9	8.9	8.9	7.8	7.8	7.8	6.7	6.7	6.7	6.7
77.5°	5.6	5.6	5.6	5.6	5.6	4.4	4.4	4.4	4.4	4.4
80°	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2	2.2	1.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	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)