

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: P3ART20R709830D010 E3LCWW1WMH

Issue Date: 5/8/2026

**Test Information**

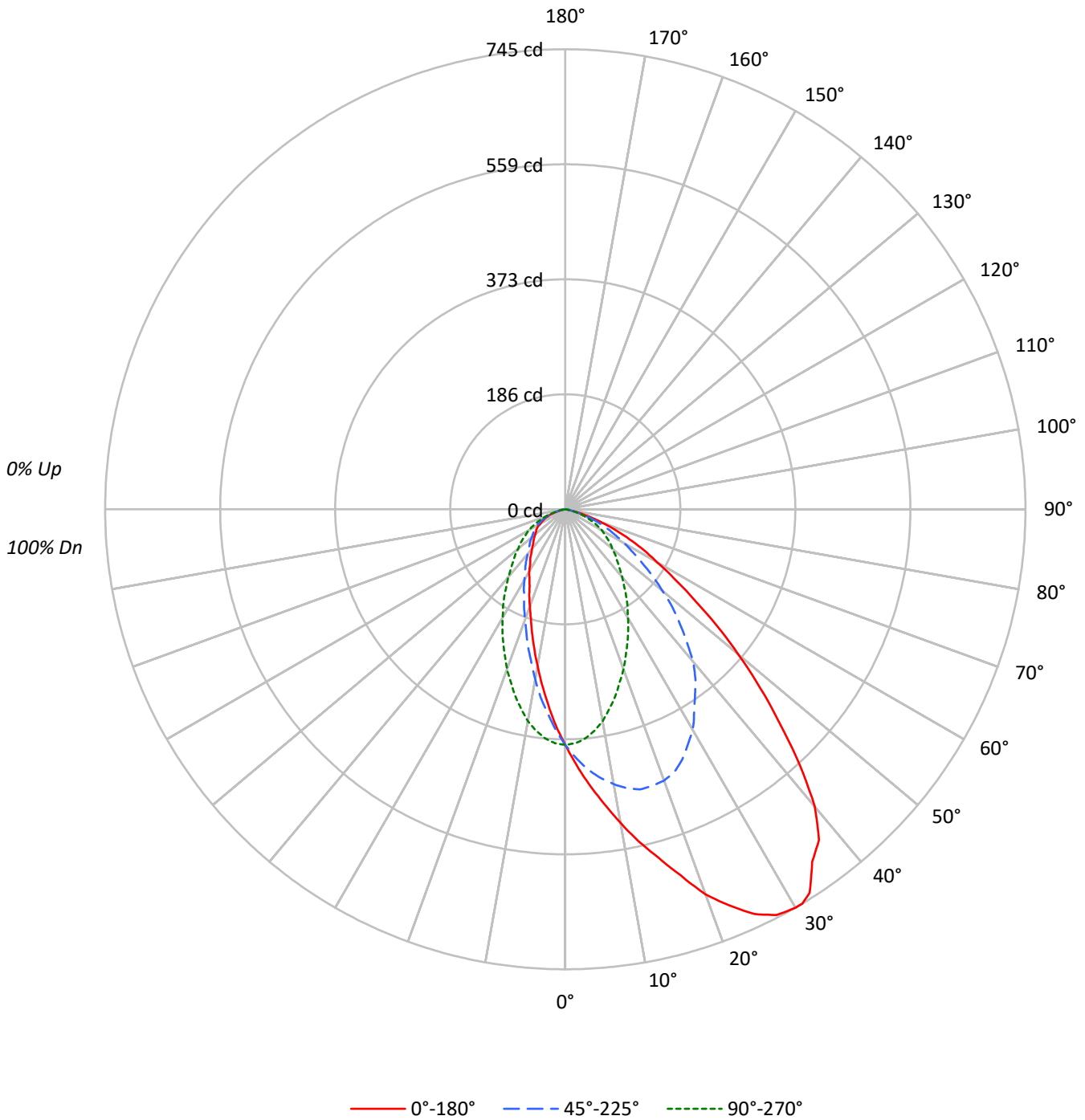
Test Method: LM-79-2019  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART20R709830D010 E3LCWW1WMH  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , E3LCWW1WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 776.0 lumens  
Efficiency: N/A  
Efficacy: 28.3 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°	83634	83634	83634	83634	83634
5°	98525	93176	82016	72793	69888
10°	114872	100644	77576	62346	57447
15°	132645	106607	71079	52554	47060
20°	154877	109069	64312	44244	39110
25°	174978	108297	57608	37865	33074
30°	188687	104396	51350	33499	29599
35°	186501	97975	46043	30089	26555
40°	179880	92144	41020	27137	23988
45°	152481	81373	36934	25305	22576
50°	124857	69934	33841	24084	21799
55°	96952	58148	32037	23588	21906
60°	75433	48329	29954	23200	20305
65°	59514	40056	26306	21740	19457
70°	40968	29684	21222	18401	16990
75°	20588	16775	14911	13047	11184
80°	2778	5556	8334	5556	2778
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 152481 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.7	4.6
10°-20°	99.4	12.8
20°-30°	146.5	18.9
30°-40°	164.2	21.2
40°-50°	144.3	18.6
50°-60°	103.3	13.3
60°-70°	61.2	7.9
70°-80°	20.5	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
<b>0°-30°</b>	<b>281.5</b>	<b>36.3</b>
<b>0°-40°</b>	<b>445.7</b>	<b>57.4</b>
<b>0°-60°</b>	<b>693.3</b>	<b>89.3</b>
<b>0°-90°</b>	<b>776.0</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>776.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	381	381	381	381	381	
5°	448	423	373	331	318	45
15°	584	470	313	232	207	168
25°	723	448	238	156	137	332
35°	697	366	172	112	99	438
45°	492	262	119	82	73	380
55°	254	152	84	62	57	232
65°	115	77	51	42	38	114
75°	24	20	18	15	13	29
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°	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4
2.5°	414.5	414.5	414.5	410.1	410.1	403.5	399.1	392.5	388.1	381.4	379.2
5°	447.6	447.6	443.2	438.8	432.1	423.3	412.3	401.3	388.1	377.0	372.6
7.5°	480.7	482.9	476.2	467.4	454.2	438.8	423.3	405.7	385.8	370.4	361.6
10°	515.9	515.9	507.1	493.9	474.0	452.0	427.7	403.5	379.2	357.2	348.4
12.5°	551.2	549.0	538.0	518.1	493.9	463.0	429.9	399.1	370.4	344.0	330.7
15°	584.3	584.3	568.8	544.6	509.3	469.6	429.9	390.3	357.2	326.3	313.1
17.5°	621.8	621.8	601.9	564.4	520.3	469.6	423.3	379.2	341.7	308.7	293.2
20°	663.7	661.5	632.8	582.1	524.8	467.4	414.5	366.0	324.1	288.8	275.6
22.5°	694.5	692.3	659.2	597.5	527.0	460.8	399.1	348.4	306.5	271.2	255.8
25°	723.2	718.8	681.3	604.1	522.5	447.6	383.6	328.5	288.8	253.6	238.1
27.5°	740.8	738.6	696.7	601.9	511.5	429.9	363.8	310.9	269.0	233.7	220.5
30°	745.2	747.4	696.7	590.9	493.9	412.3	344.0	291.0	249.1	218.3	202.8
31°	745.2	747.4	692.3	584.3	487.3	403.5	335.1	284.4	240.3	209.5	196.2
32.5°	736.4	732.0	685.7	573.3	471.8	388.1	324.1	273.4	229.3	198.4	187.4
35°	696.7	698.9	663.7	549.0	449.8	366.0	302.1	251.4	209.5	183.0	172.0
37.5°	674.7	674.7	610.7	515.9	425.5	346.2	275.6	227.1	191.8	167.6	156.5
40°	628.4	621.8	562.2	480.7	396.9	321.9	260.2	211.7	176.4	152.1	143.3
42.5°	562.2	555.6	509.3	449.8	359.4	291.0	246.9	187.4	158.7	138.9	130.1
45°	491.7	487.3	452.0	396.9	324.1	262.4	213.9	172.0	145.5	125.7	119.1
47.5°	427.7	421.1	394.7	352.8	293.2	235.9	185.2	154.3	130.1	114.7	110.2
50°	366.0	363.8	341.7	308.7	260.2	205.0	163.2	136.7	119.1	105.8	99.2
52.5°	308.7	304.3	293.2	266.8	227.1	178.6	143.3	121.3	105.8	97.0	92.6
55°	253.6	253.6	242.5	224.9	194.0	152.1	125.7	108.0	94.8	88.2	83.8
57.5°	209.5	209.5	200.6	189.6	161.0	130.1	110.2	94.8	86.0	79.4	75.0
60°	172.0	172.0	165.4	154.3	134.5	110.2	94.8	83.8	77.2	70.6	68.3
62.5°	143.3	141.1	136.7	125.7	110.2	92.6	81.6	72.8	66.1	61.7	59.5
65°	114.7	112.4	108.0	99.2	88.2	77.2	68.3	61.7	57.3	52.9	50.7
67.5°	88.2	88.2	83.8	77.2	68.3	61.7	55.1	50.7	46.3	44.1	41.9
70°	63.9	63.9	61.7	57.3	50.7	46.3	41.9	39.7	37.5	35.3	33.1
72.5°	44.1	44.1	41.9	39.7	35.3	33.1	28.7	28.7	26.5	26.5	24.3
75°	24.3	24.3	24.3	22.0	22.0	19.8	19.8	19.8	17.6	17.6	17.6
77.5°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
80°	2.2	2.2	2.2	2.2	4.4	4.4	4.4	4.4	6.6	6.6	6.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2
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°	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4	381.4
2.5°	377.0	370.4	366.0	363.8	357.2	355.0	352.8	350.6	350.6	350.6
5°	368.2	357.2	346.2	339.5	330.7	326.3	321.9	319.7	317.5	317.5
7.5°	352.8	339.5	326.3	315.3	306.5	297.7	293.2	288.8	288.8	286.6
10°	337.3	319.7	304.3	288.8	280.0	269.0	264.6	260.2	258.0	258.0
12.5°	319.7	297.7	280.0	266.8	253.6	244.7	238.1	233.7	231.5	231.5
15°	299.9	277.8	258.0	244.7	231.5	220.5	213.9	209.5	207.3	207.3
17.5°	280.0	258.0	235.9	222.7	209.5	198.4	194.0	189.6	187.4	185.2
20°	262.4	235.9	218.3	200.6	189.6	180.8	174.2	169.8	167.6	167.6
22.5°	242.5	218.3	198.4	185.2	174.2	165.4	156.5	154.3	152.1	152.1
25°	222.7	200.6	183.0	169.8	156.5	149.9	143.3	138.9	138.9	136.7
27.5°	207.3	185.2	167.6	154.3	145.5	136.7	132.3	127.9	125.7	125.7
30°	189.6	169.8	154.3	143.3	132.3	125.7	121.3	116.9	116.9	116.9
31°	185.2	165.4	149.9	136.7	127.9	121.3	116.9	114.7	112.4	112.4
32.5°	174.2	156.5	141.1	130.1	121.3	114.7	110.2	108.0	108.0	105.8
35°	161.0	143.3	130.1	119.1	112.4	105.8	101.4	99.2	99.2	99.2
37.5°	147.7	132.3	119.1	110.2	103.6	97.0	94.8	90.4	90.4	90.4
40°	134.5	121.3	110.2	101.4	94.8	90.4	88.2	86.0	83.8	83.8
42.5°	123.5	110.2	101.4	94.8	88.2	83.8	81.6	79.4	79.4	77.2
45°	112.4	101.4	94.8	88.2	81.6	79.4	77.2	75.0	72.8	72.8
47.5°	103.6	94.8	86.0	81.6	77.2	72.8	70.6	70.6	68.3	68.3
50°	94.8	86.0	79.4	75.0	70.6	68.3	66.1	66.1	63.9	63.9
52.5°	88.2	79.4	75.0	70.6	66.1	63.9	61.7	61.7	59.5	59.5
55°	79.4	72.8	68.3	66.1	61.7	59.5	57.3	55.1	55.1	57.3
57.5°	72.8	68.3	63.9	61.7	57.3	55.1	52.9	52.9	50.7	52.9
60°	66.1	61.7	57.3	55.1	52.9	50.7	48.5	46.3	46.3	46.3
62.5°	59.5	55.1	52.9	48.5	46.3	46.3	44.1	44.1	44.1	41.9
65°	50.7	48.5	46.3	44.1	41.9	39.7	39.7	37.5	37.5	37.5
67.5°	41.9	39.7	37.5	37.5	35.3	33.1	33.1	33.1	33.1	30.9
70°	33.1	30.9	30.9	28.7	28.7	28.7	26.5	26.5	26.5	26.5
72.5°	24.3	24.3	22.0	22.0	22.0	22.0	19.8	19.8	19.8	19.8
75°	17.6	17.6	17.6	15.4	15.4	15.4	13.2	13.2	13.2	13.2
77.5°	11.0	11.0	11.0	11.0	11.0	8.8	8.8	8.8	8.8	8.8
80°	6.6	6.6	6.6	6.6	4.4	4.4	4.4	4.4	4.4	2.2
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	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)