

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: P3ART20R709840D010 E3LCWW1GPH

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: P3ART20R709840D010 E3LCWW1GPH
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , E3LCWW1GPH TRIM
Light Source: -
Ballast/Driver: -

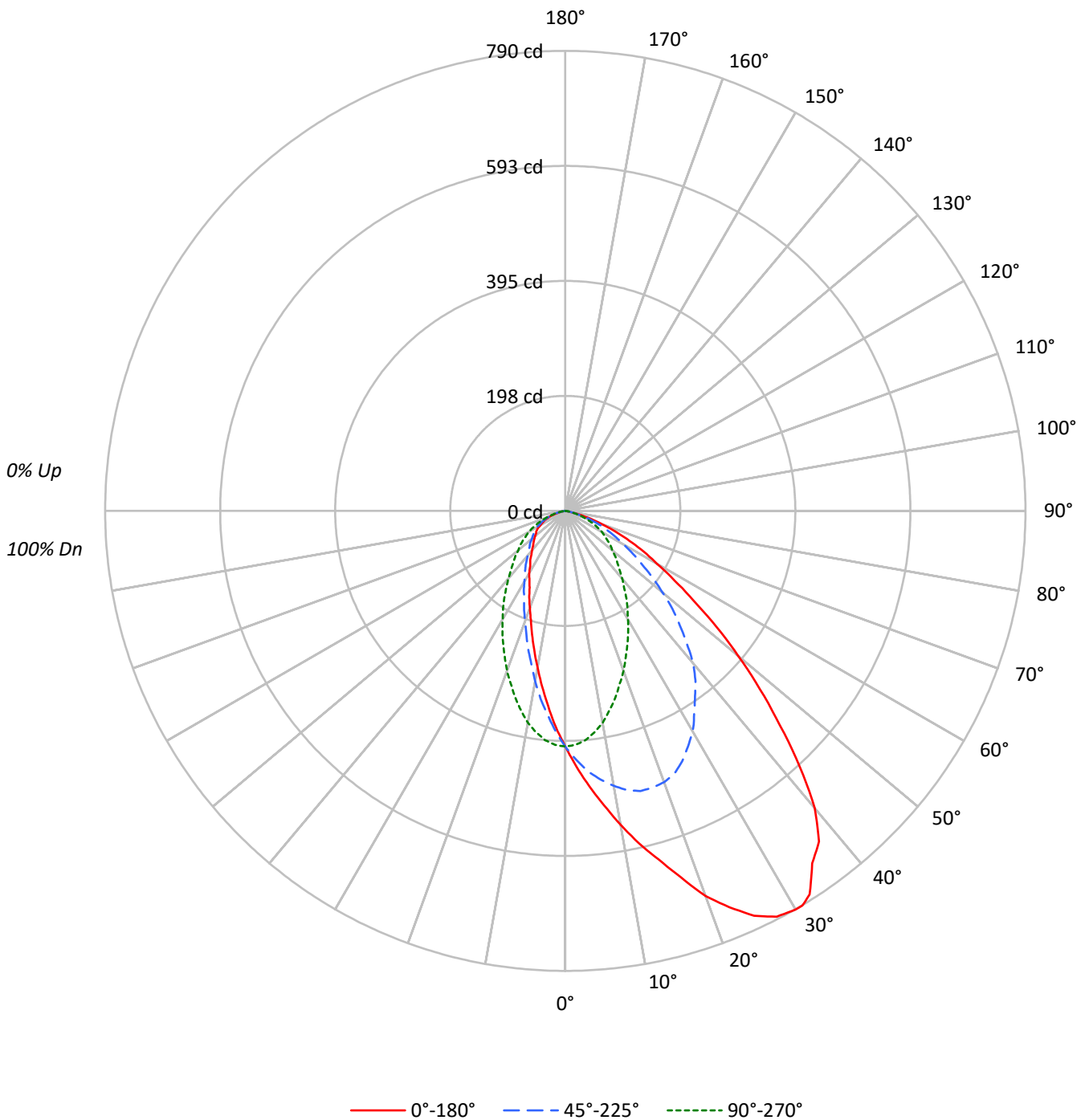
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 823.0 lumens
Efficiency: N/A
Efficacy: 30.0 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): 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76	76	76	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66	66	66	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58	58	58	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51	51	51	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46	46	46	46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41	41	41	41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37	37	37	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34	34	34	34
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31	31	31	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	88699	88699	88699	88699	88699
5°	104490	98833	86991	77217	74114
10°	121841	106745	82274	66131	60921
15°	140682	113077	75369	55732	49898
20°	164258	115673	68209	46927	41467
25°	185575	114853	61092	40164	35083
30°	200132	110726	54464	35524	31372
35°	197798	103918	48827	31936	28161
40°	190757	97726	43510	28797	25448
45°	161722	86304	39167	26824	23940
50°	132431	74198	35888	25517	23129
55°	102802	61666	33987	25041	23244
60°	79994	51268	31796	24603	21533
65°	63094	42443	27915	23037	20651
70°	43469	31480	22504	19490	18016
75°	21774	17792	15843	13895	11861
80°	2904	5935	8840	5935	2904
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 161722 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	4.6
10°-20°	105.4	12.8
20°-30°	155.3	18.9
30°-40°	174.1	21.2
40°-50°	153.1	18.6
50°-60°	109.6	13.3
60°-70°	64.9	7.9
70°-80°	21.8	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°	298.6	36.3
0°-40°	472.7	57.4
0°-60°	735.3	89.3
0°-90°	823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	823.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	404	404	404	404	404	
5°	475	449	395	351	337	47
15°	620	498	332	246	220	179
25°	767	475	252	166	145	353
35°	739	388	182	119	105	464
45°	522	278	126	86	77	403
55°	269	161	89	66	61	246
65°	122	82	54	44	40	121
75°	26	21	19	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°	404.5	404.5	404.5	404.5	404.5	404.5	404.5	404.5	404.5	404.5	404.5
2.5°	439.6	439.6	439.6	434.9	434.9	427.9	423.2	416.2	411.6	404.5	402.2
5°	474.7	474.7	470.0	465.3	458.3	449.0	437.3	425.6	411.6	399.9	395.2
7.5°	509.8	512.1	505.1	495.7	481.7	465.3	449.0	430.3	409.2	392.8	383.5
10°	547.2	547.2	537.8	523.8	502.8	479.4	453.6	427.9	402.2	378.8	369.5
12.5°	584.6	582.3	570.6	549.5	523.8	491.1	456.0	423.2	392.8	364.8	350.8
15°	619.7	619.7	603.3	577.6	540.2	498.1	456.0	413.9	378.8	346.1	332.0
17.5°	659.4	659.4	638.4	598.6	551.9	498.1	449.0	402.2	362.4	327.4	311.0
20°	703.9	701.5	671.1	617.3	556.5	495.7	439.6	388.2	343.7	306.3	292.3
22.5°	736.6	734.2	699.2	633.7	558.9	488.7	423.2	369.5	325.0	287.6	271.3
25°	767.0	762.3	722.6	640.7	554.2	474.7	406.9	348.4	306.3	268.9	252.5
27.5°	785.7	783.4	738.9	638.4	542.5	456.0	385.8	329.7	285.3	247.9	233.8
30°	790.4	792.7	738.9	626.7	523.8	437.3	364.8	308.7	264.2	231.5	215.1
31°	790.4	792.7	734.2	619.7	516.8	427.9	355.4	301.7	254.9	222.1	208.1
32.5°	781.0	776.3	727.2	608.0	500.4	411.6	343.7	290.0	243.2	210.5	198.8
35°	738.9	741.3	703.9	582.3	477.0	388.2	320.4	266.6	222.1	194.1	182.4
37.5°	715.5	715.5	647.7	547.2	451.3	367.1	292.3	240.9	203.4	177.7	166.0
40°	666.4	659.4	596.3	509.8	420.9	341.4	275.9	224.5	187.1	161.3	152.0
42.5°	596.3	589.3	540.2	477.0	381.2	308.7	261.9	198.8	168.4	147.3	138.0
45°	521.5	516.8	479.4	420.9	343.7	278.3	226.8	182.4	154.3	133.3	126.3
47.5°	453.6	446.6	418.6	374.1	311.0	250.2	196.4	163.7	138.0	121.6	116.9
50°	388.2	385.8	362.4	327.4	275.9	217.5	173.0	145.0	126.3	112.2	105.2
52.5°	327.4	322.7	311.0	282.9	240.9	189.4	152.0	128.6	112.2	102.9	98.2
55°	268.9	268.9	257.2	238.5	205.8	161.3	133.3	114.6	100.6	93.5	88.9
57.5°	222.1	222.1	212.8	201.1	170.7	138.0	116.9	100.6	91.2	84.2	79.5
60°	182.4	182.4	175.4	163.7	142.6	116.9	100.6	88.9	81.8	74.8	72.5
62.5°	152.0	149.7	145.0	133.3	116.9	98.2	86.5	77.2	70.2	65.5	63.1
65°	121.6	119.3	114.6	105.2	93.5	81.8	72.5	65.5	60.8	56.1	53.8
67.5°	93.5	93.5	88.9	81.8	72.5	65.5	58.5	53.8	49.1	46.8	44.4
70°	67.8	67.8	65.5	60.8	53.8	49.1	44.4	42.1	39.8	37.4	35.1
72.5°	46.8	46.8	44.4	42.1	37.4	35.1	30.4	30.4	28.1	28.1	25.7
75°	25.7	25.7	25.7	23.4	23.4	21.0	21.0	21.0	18.7	18.7	18.7
77.5°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
80°	2.3	2.3	2.3	2.3	4.7	4.7	4.7	4.7	7.0	7.0	7.0
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°	404.5	404.5	404.5	404.5	404.5	404.5	404.5	404.5	404.5	404.5
2.5°	399.9	392.8	388.2	385.8	378.8	376.5	374.1	371.8	371.8	371.8
5°	390.5	378.8	367.1	360.1	350.8	346.1	341.4	339.1	336.7	336.7
7.5°	374.1	360.1	346.1	334.4	325.0	315.7	311.0	306.3	306.3	304.0
10°	357.8	339.1	322.7	306.3	297.0	285.3	280.6	275.9	273.6	273.6
12.5°	339.1	315.7	297.0	282.9	268.9	259.6	252.5	247.9	245.5	245.5
15°	318.0	294.6	273.6	259.6	245.5	233.8	226.8	222.1	219.8	219.8
17.5°	297.0	273.6	250.2	236.2	222.1	210.5	205.8	201.1	198.8	196.4
20°	278.3	250.2	231.5	212.8	201.1	191.7	184.7	180.1	177.7	177.7
22.5°	257.2	231.5	210.5	196.4	184.7	175.4	166.0	163.7	161.3	161.3
25°	236.2	212.8	194.1	180.1	166.0	159.0	152.0	147.3	147.3	145.0
27.5°	219.8	196.4	177.7	163.7	154.3	145.0	140.3	135.6	133.3	133.3
30°	201.1	180.1	163.7	152.0	140.3	133.3	128.6	123.9	123.9	123.9
31°	196.4	175.4	159.0	145.0	135.6	128.6	123.9	121.6	119.3	119.3
32.5°	184.7	166.0	149.7	138.0	128.6	121.6	116.9	114.6	114.6	112.2
35°	170.7	152.0	138.0	126.3	119.3	112.2	107.6	105.2	105.2	105.2
37.5°	156.7	140.3	126.3	116.9	109.9	102.9	100.6	95.9	95.9	95.9
40°	142.6	128.6	116.9	107.6	100.6	95.9	93.5	91.2	88.9	88.9
42.5°	130.9	116.9	107.6	100.6	93.5	88.9	86.5	84.2	84.2	81.8
45°	119.3	107.6	100.6	93.5	86.5	84.2	81.8	79.5	77.2	77.2
47.5°	109.9	100.6	91.2	86.5	81.8	77.2	74.8	74.8	72.5	72.5
50°	100.6	91.2	84.2	79.5	74.8	72.5	70.2	70.2	67.8	67.8
52.5°	93.5	84.2	79.5	74.8	70.2	67.8	65.5	65.5	63.1	63.1
55°	84.2	77.2	72.5	70.2	65.5	63.1	60.8	58.5	58.5	60.8
57.5°	77.2	72.5	67.8	65.5	60.8	58.5	56.1	56.1	53.8	56.1
60°	70.2	65.5	60.8	58.5	56.1	53.8	51.4	49.1	49.1	49.1
62.5°	63.1	58.5	56.1	51.4	49.1	49.1	46.8	46.8	46.8	44.4
65°	53.8	51.4	49.1	46.8	44.4	42.1	42.1	39.8	39.8	39.8
67.5°	44.4	42.1	39.8	39.8	37.4	35.1	35.1	35.1	35.1	32.7
70°	35.1	32.7	32.7	30.4	30.4	30.4	28.1	28.1	28.1	28.1
72.5°	25.7	25.7	23.4	23.4	23.4	23.4	21.0	21.0	21.0	21.0
75°	18.7	18.7	18.7	16.4	16.4	16.4	14.0	14.0	14.0	14.0
77.5°	11.7	11.7	11.7	11.7	11.7	9.4	9.4	9.4	9.4	9.4
80°	7.0	7.0	7.0	7.0	4.7	4.7	4.7	4.7	4.7	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)