

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: P1446446

Luminaire Tested: P3ART13R709730DE010 E3CLSWW1MMS

Issue Date: 5/8/2026

Test Information

Test Method: LM-79-2019
Report Number: P1446446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3ART13R709730DE010 E3CLSWW1MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , E3CLSWW1MMS TRIM
Light Source: -
Ballast/Driver: -

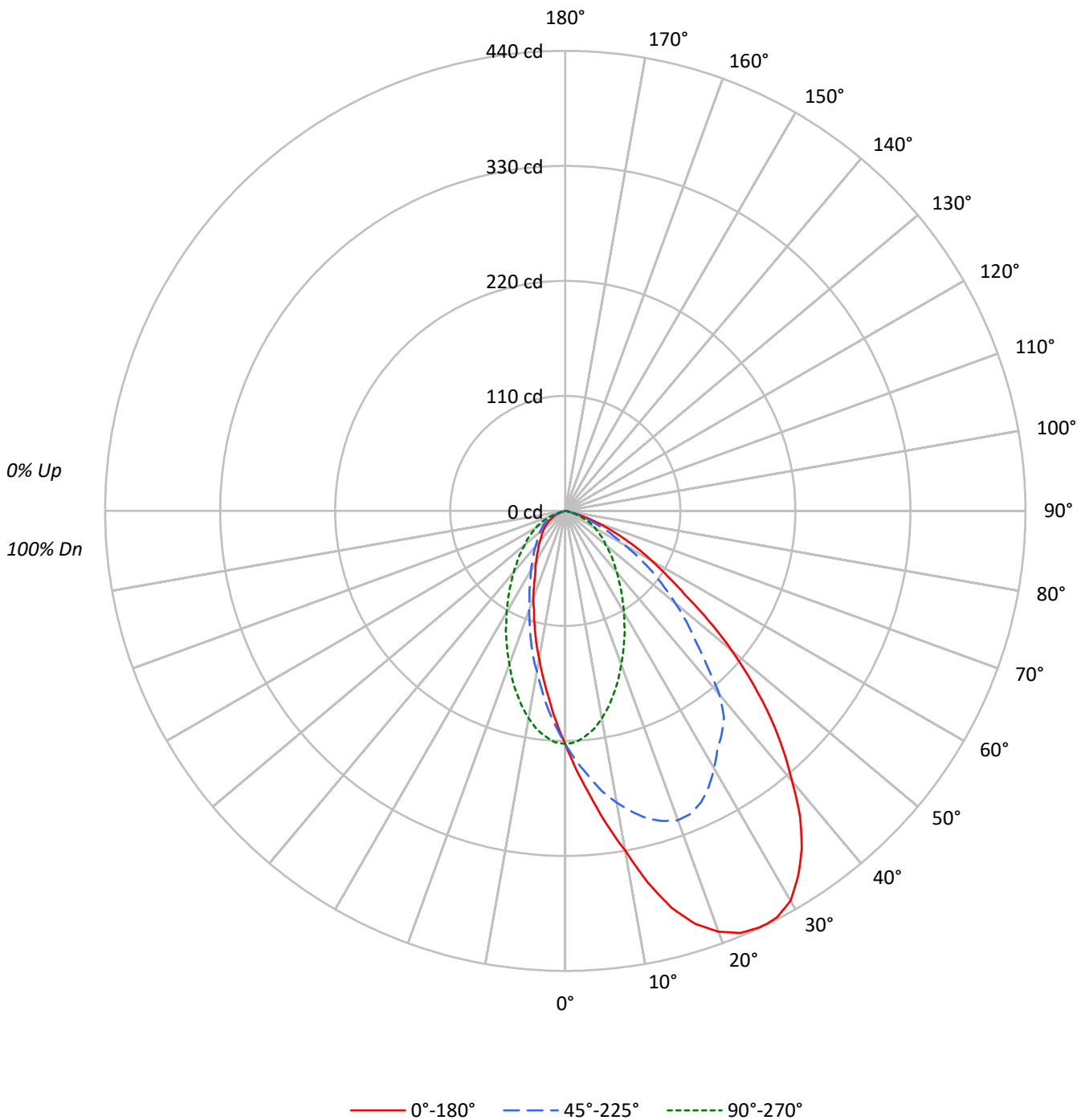
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 444.0 lumens
Efficiency: N/A
Efficacy: 30.4 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.85 / 1.23
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89	89	89	89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	78	78	78	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68	68	68	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60	60	60	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53	53	53	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47	47	47	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43	43	43	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39	39	39	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35	35	35	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	32	32	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	48878	48878	48878	48878	48878
5°	60158	55998	47678	41866	39643
10°	73457	63081	44867	34780	31974
15°	89195	69194	40886	28876	25721
20°	99922	73460	36450	23499	20862
25°	106337	74351	32300	19501	16453
30°	109055	72062	28384	16585	14027
35°	105524	69787	24949	14161	12126
40°	96610	65609	21984	12624	10820
45°	85528	54672	19537	11722	9768
50°	70889	46839	17193	10746	9006
55°	53446	38995	15904	10093	8181
60°	41970	29252	14341	9385	7192
65°	31339	21585	12401	7835	5863
70°	20196	13720	8912	5642	3206
75°	8557	7456	4236	2118	1101
80°	1642	1642	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 85528 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.1	4.8
10°-20°	60.9	13.7
20°-30°	89.0	20.0
30°-40°	97.0	21.8
40°-50°	83.9	18.9
50°-60°	56.2	12.7
60°-70°	29.0	6.5
70°-80°	6.9	1.5
80°-90°	0.1	0.0
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°	171.0	38.5
0°-40°	267.9	60.3
0°-60°	408.0	91.9
0°-90°	444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	444.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	223	223	223	223	223	
5°	273	254	217	190	180	28
15°	393	305	180	127	113	111
25°	440	307	134	81	68	202
35°	394	261	93	53	45	244
45°	276	176	63	38	32	211
55°	140	102	42	26	21	129
65°	60	42	24	15	11	61
75°	10	9	5	2	1	13
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°	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9
2.5°	248.1	246.8	246.8	244.3	241.8	239.3	235.5	231.7	227.9	224.2	221.6
5°	273.3	274.5	273.3	268.2	261.9	254.4	246.8	238.0	229.2	221.6	216.6
7.5°	302.2	302.2	298.5	292.2	283.3	270.7	258.2	243.0	229.2	216.6	210.3
10°	329.9	329.9	323.6	313.6	299.7	283.3	265.7	245.6	226.7	209.0	201.5
12.5°	363.9	362.7	355.1	338.8	318.6	294.7	270.7	245.6	222.9	201.5	191.4
15°	392.9	391.6	381.6	361.4	335.0	304.8	272.0	243.0	215.3	191.4	180.1
17.5°	414.3	411.8	400.5	379.0	348.8	311.0	273.3	238.0	206.5	180.1	168.7
20°	428.2	426.9	414.3	389.1	356.4	314.8	272.0	231.7	197.7	168.7	156.2
22.5°	437.0	434.5	421.9	394.2	356.4	313.6	267.0	222.9	186.4	157.4	144.8
25°	439.5	438.2	423.1	392.9	352.6	307.3	259.4	214.1	175.0	146.1	133.5
26°	439.5	438.2	423.1	391.6	350.1	303.5	255.6	210.3	171.3	141.0	129.7
27.5°	438.2	437.0	420.6	387.9	345.0	297.2	248.1	202.7	163.7	134.7	122.2
30°	430.7	428.2	411.8	379.0	333.7	284.6	235.5	191.4	152.4	123.4	112.1
32.5°	414.3	411.8	394.2	363.9	321.1	270.7	221.6	178.8	141.0	112.1	102.0
35°	394.2	391.6	374.0	345.0	303.5	260.7	206.5	165.0	128.4	103.3	93.2
37.5°	369.0	365.2	350.1	319.9	282.1	249.3	193.9	151.1	117.1	93.2	84.4
40°	337.5	336.2	322.4	294.7	256.9	229.2	186.4	151.1	107.0	84.4	76.8
42.5°	307.3	304.8	292.2	268.2	234.2	200.2	163.7	144.8	99.5	75.6	69.3
45°	275.8	273.3	261.9	241.8	210.3	176.3	176.3	124.7	85.6	69.3	63.0
47.5°	241.8	239.3	230.5	215.3	187.6	157.4	128.4	102.0	78.1	61.7	56.7
50°	207.8	209.0	201.5	186.4	165.0	137.3	110.8	85.6	66.7	55.4	50.4
52.5°	173.8	172.5	167.5	157.4	142.3	118.4	94.4	73.0	57.9	49.1	46.6
55°	139.8	141.0	138.5	132.2	119.6	102.0	79.3	63.0	51.6	44.1	41.6
57.5°	115.9	117.1	112.1	108.3	98.2	83.1	65.5	52.9	44.1	39.0	36.5
60°	95.7	97.0	93.2	88.2	80.6	66.7	52.9	44.1	39.0	35.3	32.7
62.5°	78.1	76.8	74.3	69.3	63.0	52.9	42.8	36.5	32.7	30.2	29.0
65°	60.4	60.4	57.9	54.1	49.1	41.6	34.0	30.2	27.7	25.2	23.9
67.5°	45.3	45.3	42.8	40.3	35.3	30.2	26.4	23.9	22.7	20.1	18.9
70°	31.5	31.5	30.2	29.0	25.2	21.4	20.1	17.6	16.4	15.1	13.9
72.5°	20.1	20.1	20.1	17.6	16.4	13.9	13.9	12.6	11.3	10.1	10.1
75°	10.1	11.3	10.1	10.1	8.8	8.8	7.6	7.6	6.3	6.3	5.0
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	2.5	2.5	2.5	2.5	2.5
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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°	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9
2.5°	219.1	215.3	212.8	209.0	206.5	204.0	202.7	201.5	201.5	201.5
5°	212.8	206.5	200.2	193.9	190.2	186.4	182.6	181.3	180.1	180.1
7.5°	205.3	195.2	186.4	178.8	172.5	168.7	165.0	162.4	161.2	161.2
10°	195.2	182.6	172.5	162.4	156.2	151.1	148.6	144.8	144.8	143.6
12.5°	183.9	168.7	157.4	148.6	142.3	136.0	132.2	129.7	128.4	128.4
15°	171.3	156.2	143.6	133.5	127.2	120.9	117.1	114.6	113.3	113.3
17.5°	158.7	142.3	129.7	119.6	113.3	107.0	103.3	100.7	100.7	99.5
20°	146.1	129.7	117.1	107.0	100.7	95.7	91.9	89.4	88.2	89.4
22.5°	134.7	118.4	105.8	97.0	89.4	84.4	80.6	79.3	78.1	78.1
25°	122.2	107.0	95.7	86.9	80.6	75.6	71.8	70.5	69.3	68.0
26°	118.4	103.3	91.9	83.1	76.8	71.8	69.3	66.7	65.5	65.5
27.5°	113.3	97.0	86.9	78.1	71.8	68.0	64.2	63.0	61.7	61.7
30°	102.0	88.2	78.1	70.5	65.5	60.4	57.9	56.7	55.4	55.4
32.5°	93.2	79.3	70.5	64.2	59.2	55.4	52.9	50.4	50.4	50.4
35°	84.4	71.8	64.2	57.9	52.9	49.1	47.9	46.6	45.3	45.3
37.5°	76.8	65.5	57.9	52.9	49.1	45.3	42.8	41.6	41.6	41.6
40°	69.3	60.4	52.9	47.9	44.1	41.6	39.0	37.8	37.8	37.8
42.5°	63.0	54.1	49.1	44.1	40.3	37.8	36.5	35.3	34.0	34.0
45°	57.9	50.4	44.1	40.3	37.8	35.3	32.7	31.5	31.5	31.5
47.5°	51.6	46.6	40.3	36.5	34.0	31.5	30.2	29.0	29.0	29.0
50°	47.9	42.8	37.8	34.0	31.5	29.0	27.7	26.4	26.4	26.4
52.5°	42.8	39.0	35.3	31.5	29.0	26.4	25.2	23.9	23.9	23.9
55°	39.0	35.3	31.5	29.0	26.4	23.9	22.7	21.4	21.4	21.4
57.5°	35.3	31.5	29.0	26.4	23.9	22.7	20.1	20.1	18.9	18.9
60°	31.5	27.7	25.2	23.9	21.4	20.1	17.6	16.4	16.4	16.4
62.5°	26.4	25.2	22.7	20.1	17.6	16.4	15.1	13.9	13.9	13.9
65°	22.7	21.4	18.9	16.4	15.1	13.9	12.6	11.3	11.3	11.3
67.5°	18.9	16.4	15.1	13.9	12.6	11.3	10.1	8.8	7.6	8.8
70°	13.9	12.6	11.3	10.1	8.8	7.6	6.3	6.3	5.0	5.0
72.5°	8.8	7.6	7.6	6.3	5.0	5.0	3.8	3.8	2.5	2.5
75°	5.0	5.0	3.8	3.8	2.5	2.5	1.3	1.3	1.3	1.3
77.5°	2.5	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)