

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: P1446161

Luminaire Tested: P3ART09R709040DE010 E3CLSWW1MW

Issue Date: 5/8/2026

Test Information

Test Method: LM-79-2019
Report Number: P1446161
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: P3ART09R709040DE010 E3CLSWW1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , E3CLSWW1MW TRIM
Light Source: -
Ballast/Driver: -

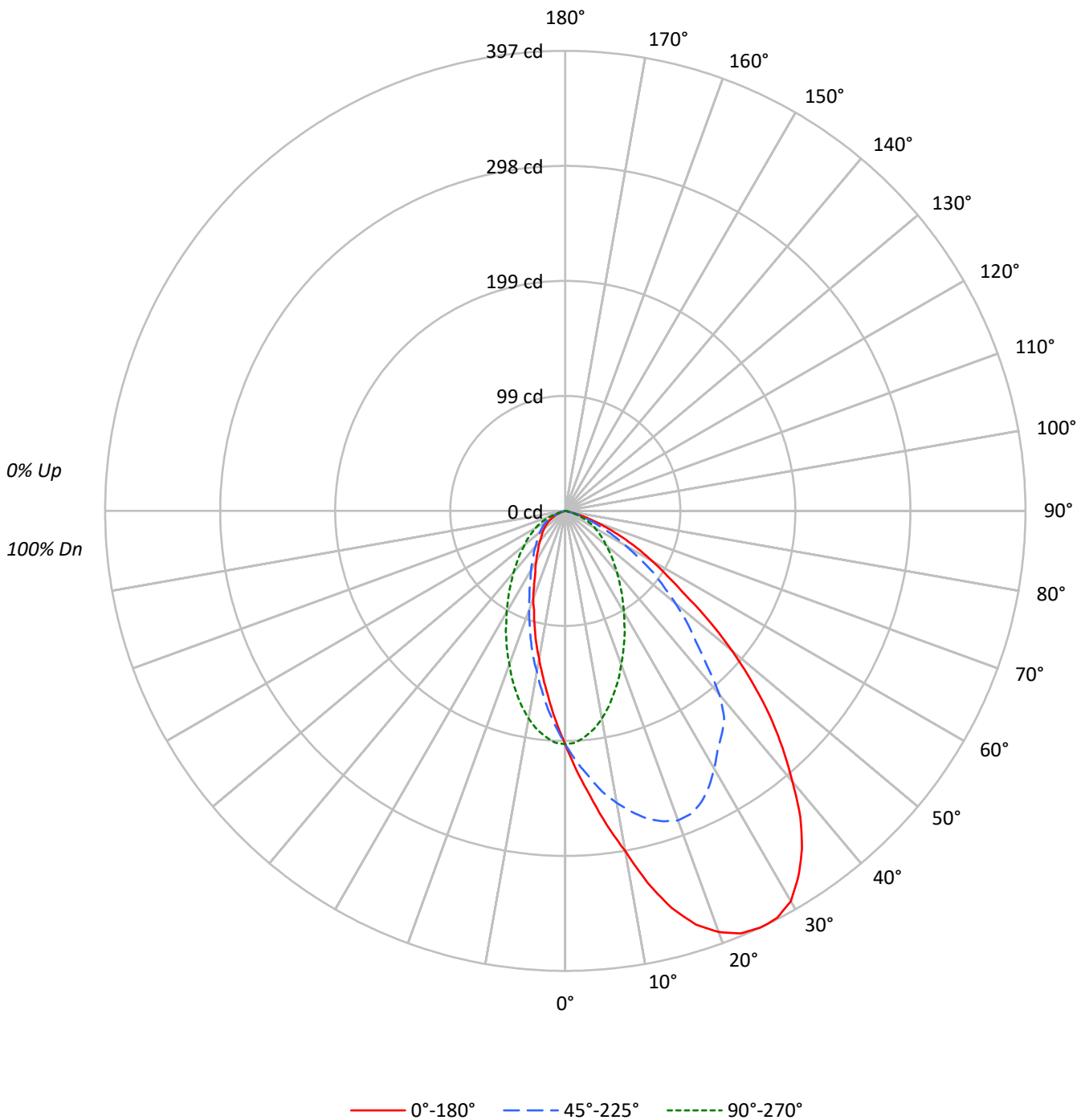
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 401.0 lumens
Efficiency: N/A
Efficacy: 36.1 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): 11.1
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
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	78			78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68			68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60			60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53			53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47			47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43			43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39			39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	44141	44141	44141	44141	44141
5°	54325	50561	43055	37794	35791
10°	66354	56980	40525	31396	28879
15°	80568	62475	36913	26084	23246
20°	90238	66342	32903	21235	18855
25°	96030	67141	29179	17614	14856
30°	98496	65073	25624	14964	12660
35°	95298	63015	22540	12796	10949
40°	87249	59254	19866	11393	9761
45°	77248	49369	17645	10575	8807
50°	64032	42301	15522	9688	8153
55°	48247	35210	14336	9137	7378
60°	37892	26445	12981	8464	6491
65°	28330	19457	11207	7057	5292
70°	18208	12374	8014	5129	2885
75°	7710	6778	3813	1949	932
80°	1389	1389	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 77248 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.1	4.8
10°-20°	55.0	13.7
20°-30°	80.4	20.0
30°-40°	87.6	21.8
40°-50°	75.8	18.9
50°-60°	50.8	12.7
60°-70°	26.2	6.5
70°-80°	6.2	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°	154.4	38.5
0°-40°	242.0	60.3
0°-60°	368.5	91.9
0°-90°	401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	401.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	201	201	201	201	201	
5°	247	230	196	172	163	25
15°	355	275	163	115	102	101
25°	397	278	121	73	61	182
35°	356	235	84	48	41	220
45°	249	159	57	34	28	191
55°	126	92	38	24	19	117
65°	55	38	22	14	10	55
75°	9	8	4	2	1	12
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°	201.3	201.3	201.3	201.3	201.3	201.3	201.3	201.3	201.3	201.3	201.3
2.5°	224.1	222.9	222.9	220.6	218.4	216.1	212.7	209.3	205.9	202.4	200.2
5°	246.8	247.9	246.8	242.3	236.6	229.7	222.9	215.0	207.0	200.2	195.6
7.5°	273.0	273.0	269.5	263.9	255.9	244.5	233.2	219.5	207.0	195.6	189.9
10°	298.0	298.0	292.3	283.2	270.7	255.9	240.0	221.8	204.7	188.8	182.0
12.5°	328.7	327.6	320.7	305.9	287.7	266.1	244.5	221.8	201.3	182.0	172.9
15°	354.9	353.7	344.6	326.4	302.5	275.2	245.7	219.5	194.5	172.9	162.6
17.5°	374.2	371.9	361.7	342.3	315.0	280.9	246.8	215.0	186.5	162.6	152.4
20°	386.7	385.6	374.2	351.4	321.9	284.3	245.7	209.3	178.6	152.4	141.0
22.5°	394.7	392.4	381.0	356.0	321.9	283.2	241.1	201.3	168.3	142.2	130.8
25°	396.9	395.8	382.1	354.9	318.5	277.5	234.3	193.3	158.1	131.9	120.6
26°	396.9	395.8	382.1	353.7	316.2	274.1	230.9	189.9	154.7	127.4	117.1
27.5°	395.8	394.7	379.9	350.3	311.6	268.4	224.1	183.1	147.9	121.7	110.3
30°	389.0	386.7	371.9	342.3	301.4	257.0	212.7	172.9	137.6	111.5	101.2
32.5°	374.2	371.9	356.0	328.7	290.0	244.5	200.2	161.5	127.4	101.2	92.1
35°	356.0	353.7	337.8	311.6	274.1	235.4	186.5	149.0	116.0	93.3	84.2
37.5°	333.2	329.8	316.2	288.9	254.8	225.2	175.2	136.5	105.8	84.2	76.2
40°	304.8	303.7	291.2	266.1	232.0	207.0	168.3	136.5	96.7	76.2	69.4
42.5°	277.5	275.2	263.9	242.3	211.5	180.8	147.9	130.8	89.8	68.2	62.6
45°	249.1	246.8	236.6	218.4	189.9	159.2	159.2	112.6	77.3	62.6	56.9
47.5°	218.4	216.1	208.1	194.5	169.5	142.2	116.0	92.1	70.5	55.7	51.2
50°	187.7	188.8	182.0	168.3	149.0	124.0	100.1	77.3	60.3	50.0	45.5
52.5°	157.0	155.8	151.3	142.2	128.5	106.9	85.3	66.0	52.3	44.4	42.1
55°	126.2	127.4	125.1	119.4	108.0	92.1	71.7	56.9	46.6	39.8	37.5
57.5°	104.6	105.8	101.2	97.8	88.7	75.1	59.1	47.8	39.8	35.3	33.0
60°	86.4	87.6	84.2	79.6	72.8	60.3	47.8	39.8	35.3	31.8	29.6
62.5°	70.5	69.4	67.1	62.6	56.9	47.8	38.7	33.0	29.6	27.3	26.2
65°	54.6	54.6	52.3	48.9	44.4	37.5	30.7	27.3	25.0	22.7	21.6
67.5°	40.9	40.9	38.7	36.4	31.8	27.3	23.9	21.6	20.5	18.2	17.1
70°	28.4	28.4	27.3	26.2	22.7	19.3	18.2	15.9	14.8	13.6	12.5
72.5°	18.2	18.2	18.2	15.9	14.8	12.5	12.5	11.4	10.2	9.1	9.1
75°	9.1	10.2	9.1	9.1	8.0	8.0	6.8	6.8	5.7	5.7	4.5
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	2.3	2.3	2.3	2.3	2.3
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	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°	201.3	201.3	201.3	201.3	201.3	201.3	201.3	201.3	201.3	201.3
2.5°	197.9	194.5	192.2	188.8	186.5	184.2	183.1	182.0	182.0	182.0
5°	192.2	186.5	180.8	175.2	171.7	168.3	164.9	163.8	162.6	162.6
7.5°	185.4	176.3	168.3	161.5	155.8	152.4	149.0	146.7	145.6	145.6
10°	176.3	164.9	155.8	146.7	141.0	136.5	134.2	130.8	130.8	129.7
12.5°	166.1	152.4	142.2	134.2	128.5	122.8	119.4	117.1	116.0	116.0
15°	154.7	141.0	129.7	120.6	114.9	109.2	105.8	103.5	102.4	102.4
17.5°	143.3	128.5	117.1	108.0	102.4	96.7	93.3	91.0	91.0	89.8
20°	131.9	117.1	105.8	96.7	91.0	86.4	83.0	80.8	79.6	80.8
22.5°	121.7	106.9	95.5	87.6	80.8	76.2	72.8	71.7	70.5	70.5
25°	110.3	96.7	86.4	78.5	72.8	68.2	64.8	63.7	62.6	61.4
26°	106.9	93.3	83.0	75.1	69.4	64.8	62.6	60.3	59.1	59.1
27.5°	102.4	87.6	78.5	70.5	64.8	61.4	58.0	56.9	55.7	55.7
30°	92.1	79.6	70.5	63.7	59.1	54.6	52.3	51.2	50.0	50.0
32.5°	84.2	71.7	63.7	58.0	53.5	50.0	47.8	45.5	45.5	45.5
35°	76.2	64.8	58.0	52.3	47.8	44.4	43.2	42.1	40.9	40.9
37.5°	69.4	59.1	52.3	47.8	44.4	40.9	38.7	37.5	37.5	37.5
40°	62.6	54.6	47.8	43.2	39.8	37.5	35.3	34.1	34.1	34.1
42.5°	56.9	48.9	44.4	39.8	36.4	34.1	33.0	31.8	30.7	30.7
45°	52.3	45.5	39.8	36.4	34.1	31.8	29.6	28.4	28.4	28.4
47.5°	46.6	42.1	36.4	33.0	30.7	28.4	27.3	26.2	26.2	26.2
50°	43.2	38.7	34.1	30.7	28.4	26.2	25.0	23.9	23.9	23.9
52.5°	38.7	35.3	31.8	28.4	26.2	23.9	22.7	21.6	21.6	21.6
55°	35.3	31.8	28.4	26.2	23.9	21.6	20.5	19.3	19.3	19.3
57.5°	31.8	28.4	26.2	23.9	21.6	20.5	18.2	18.2	17.1	17.1
60°	28.4	25.0	22.7	21.6	19.3	18.2	15.9	14.8	14.8	14.8
62.5°	23.9	22.7	20.5	18.2	15.9	14.8	13.6	12.5	12.5	12.5
65°	20.5	19.3	17.1	14.8	13.6	12.5	11.4	10.2	10.2	10.2
67.5°	17.1	14.8	13.6	12.5	11.4	10.2	9.1	8.0	6.8	8.0
70°	12.5	11.4	10.2	9.1	8.0	6.8	5.7	5.7	4.5	4.5
72.5°	8.0	6.8	6.8	5.7	4.5	4.5	3.4	3.4	2.3	2.3
75°	4.5	4.5	3.4	3.4	2.3	2.3	1.1	1.1	1.1	1.1
77.5°	2.3	1.1	1.1	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)