

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: P1446713

Luminaire Tested: P3ART13R709740DE010 E3LCWW1WMH

Issue Date: 5/8/2026

Test Information

Test Method: LM-79-2019
Report Number: P1446713
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: P3ART13R709740DE010 E3LCWW1WMH
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , E3LCWW1WMH TRIM
Light Source: -
Ballast/Driver: -

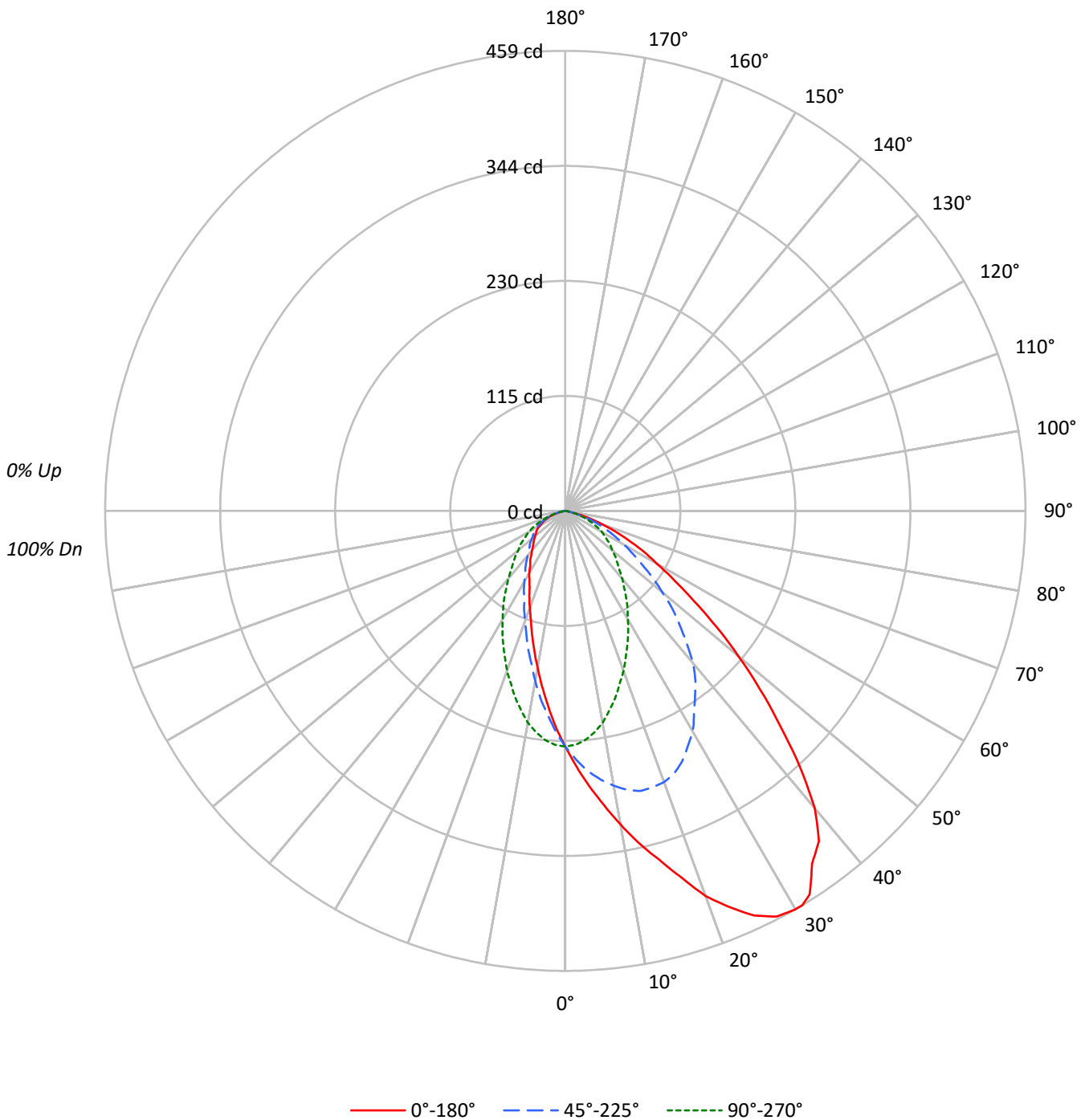
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 478.0 lumens
Efficiency: N/A
Efficacy: 32.7 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): 14.6
Input Voltage (V): NR
Input Current (A_{in}): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	51531	51531	51531	51531	51531
5°	60687	57407	50517	44838	43055
10°	70762	61990	47784	38409	35381
15°	81703	65676	43791	32372	28990
20°	95395	67183	39623	27256	24082
25°	107788	66705	35494	23324	20372
30°	116220	64314	31625	20636	18231
35°	114894	60365	28349	18551	16356
40°	110808	56763	25276	16717	14771
45°	93932	50114	22731	15599	13893
50°	76927	43086	20844	14840	13441
55°	59716	35822	19727	14528	13495
60°	46444	29778	18463	14297	12499
65°	36632	24646	16189	13387	11986
70°	25261	18272	13079	11348	10450
75°	12624	10336	9235	8049	6863
80°	1768	3410	5177	3410	1768
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 93932 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.0	4.6
10°-20°	61.2	12.8
20°-30°	90.2	18.9
30°-40°	101.1	21.2
40°-50°	88.9	18.6
50°-60°	63.6	13.3
60°-70°	37.7	7.9
70°-80°	12.6	2.6
80°-90°	0.6	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°	173.4	36.3
0°-40°	274.5	57.4
0°-60°	427.1	89.3
0°-90°	478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	478.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	235	235	235	235	235	
5°	276	261	230	204	196	28
15°	360	289	193	143	128	104
25°	446	276	147	96	84	205
35°	429	226	106	69	61	270
45°	303	162	73	50	45	234
55°	156	94	52	38	35	143
65°	71	48	31	26	23	71
75°	15	12	11	10	8	18
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°	235.0	235.0	235.0	235.0	235.0	235.0	235.0	235.0	235.0	235.0	235.0
2.5°	255.3	255.3	255.3	252.6	252.6	248.5	245.8	241.7	239.0	235.0	233.6
5°	275.7	275.7	273.0	270.3	266.2	260.8	254.0	247.2	239.0	232.2	229.5
7.5°	296.1	297.4	293.4	287.9	279.8	270.3	260.8	249.9	237.7	228.2	222.7
10°	317.8	317.8	312.4	304.2	292.0	278.4	263.5	248.5	233.6	220.0	214.6
12.5°	339.5	338.2	331.4	319.2	304.2	285.2	264.8	245.8	228.2	211.9	203.7
15°	359.9	359.9	350.4	335.5	313.7	289.3	264.8	240.4	220.0	201.0	192.9
17.5°	383.0	383.0	370.8	347.7	320.5	289.3	260.8	233.6	210.5	190.1	180.6
20°	408.8	407.4	389.8	358.5	323.2	287.9	255.3	225.5	199.6	177.9	169.8
22.5°	427.8	426.5	406.1	368.1	324.6	283.8	245.8	214.6	188.8	167.1	157.5
25°	445.5	442.8	419.7	372.1	321.9	275.7	236.3	202.4	177.9	156.2	146.7
27.5°	456.3	455.0	429.2	370.8	315.1	264.8	224.1	191.5	165.7	144.0	135.8
30°	459.0	460.4	429.2	364.0	304.2	254.0	211.9	179.3	153.5	134.5	124.9
31°	459.0	460.4	426.5	359.9	300.1	248.5	206.4	175.2	148.0	129.0	120.9
32.5°	453.6	450.9	422.4	353.1	290.6	239.0	199.6	168.4	141.2	122.2	115.4
35°	429.2	430.5	408.8	338.2	277.1	225.5	186.1	154.8	129.0	112.7	105.9
37.5°	415.6	415.6	376.2	317.8	262.1	213.2	169.8	139.9	118.2	103.2	96.4
40°	387.1	383.0	346.3	296.1	244.5	198.3	160.3	130.4	108.7	93.7	88.3
42.5°	346.3	342.2	313.7	277.1	221.4	179.3	152.1	115.4	97.8	85.6	80.1
45°	302.9	300.1	278.4	244.5	199.6	161.6	131.7	105.9	89.6	77.4	73.3
47.5°	263.5	259.4	243.1	217.3	180.6	145.3	114.1	95.1	80.1	70.6	67.9
50°	225.5	224.1	210.5	190.1	160.3	126.3	100.5	84.2	73.3	65.2	61.1
52.5°	190.1	187.4	180.6	164.3	139.9	110.0	88.3	74.7	65.2	59.8	57.0
55°	156.2	156.2	149.4	138.5	119.5	93.7	77.4	66.5	58.4	54.3	51.6
57.5°	129.0	129.0	123.6	116.8	99.1	80.1	67.9	58.4	53.0	48.9	46.2
60°	105.9	105.9	101.9	95.1	82.8	67.9	58.4	51.6	47.5	43.5	42.1
62.5°	88.3	86.9	84.2	77.4	67.9	57.0	50.3	44.8	40.7	38.0	36.7
65°	70.6	69.3	66.5	61.1	54.3	47.5	42.1	38.0	35.3	32.6	31.2
67.5°	54.3	54.3	51.6	47.5	42.1	38.0	34.0	31.2	28.5	27.2	25.8
70°	39.4	39.4	38.0	35.3	31.2	28.5	25.8	24.4	23.1	21.7	20.4
72.5°	27.2	27.2	25.8	24.4	21.7	20.4	17.7	17.7	16.3	16.3	14.9
75°	14.9	14.9	14.9	13.6	13.6	12.2	12.2	12.2	10.9	10.9	10.9
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
80°	1.4	1.4	1.4	1.4	2.7	2.7	2.7	2.7	4.1	4.1	4.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
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°	235.0	235.0	235.0	235.0	235.0	235.0	235.0	235.0	235.0	235.0
2.5°	232.2	228.2	225.5	224.1	220.0	218.7	217.3	215.9	215.9	215.9
5°	226.8	220.0	213.2	209.2	203.7	201.0	198.3	196.9	195.6	195.6
7.5°	217.3	209.2	201.0	194.2	188.8	183.3	180.6	177.9	177.9	176.6
10°	207.8	196.9	187.4	177.9	172.5	165.7	163.0	160.3	158.9	158.9
12.5°	196.9	183.3	172.5	164.3	156.2	150.8	146.7	144.0	142.6	142.6
15°	184.7	171.1	158.9	150.8	142.6	135.8	131.7	129.0	127.7	127.7
17.5°	172.5	158.9	145.3	137.2	129.0	122.2	119.5	116.8	115.4	114.1
20°	161.6	145.3	134.5	123.6	116.8	111.4	107.3	104.6	103.2	103.2
22.5°	149.4	134.5	122.2	114.1	107.3	101.9	96.4	95.1	93.7	93.7
25°	137.2	123.6	112.7	104.6	96.4	92.4	88.3	85.6	85.6	84.2
27.5°	127.7	114.1	103.2	95.1	89.6	84.2	81.5	78.8	77.4	77.4
30°	116.8	104.6	95.1	88.3	81.5	77.4	74.7	72.0	72.0	72.0
31°	114.1	101.9	92.4	84.2	78.8	74.7	72.0	70.6	69.3	69.3
32.5°	107.3	96.4	86.9	80.1	74.7	70.6	67.9	66.5	66.5	65.2
35°	99.1	88.3	80.1	73.3	69.3	65.2	62.5	61.1	61.1	61.1
37.5°	91.0	81.5	73.3	67.9	63.8	59.8	58.4	55.7	55.7	55.7
40°	82.8	74.7	67.9	62.5	58.4	55.7	54.3	53.0	51.6	51.6
42.5°	76.1	67.9	62.5	58.4	54.3	51.6	50.3	48.9	48.9	47.5
45°	69.3	62.5	58.4	54.3	50.3	48.9	47.5	46.2	44.8	44.8
47.5°	63.8	58.4	53.0	50.3	47.5	44.8	43.5	43.5	42.1	42.1
50°	58.4	53.0	48.9	46.2	43.5	42.1	40.7	40.7	39.4	39.4
52.5°	54.3	48.9	46.2	43.5	40.7	39.4	38.0	38.0	36.7	36.7
55°	48.9	44.8	42.1	40.7	38.0	36.7	35.3	34.0	34.0	35.3
57.5°	44.8	42.1	39.4	38.0	35.3	34.0	32.6	32.6	31.2	32.6
60°	40.7	38.0	35.3	34.0	32.6	31.2	29.9	28.5	28.5	28.5
62.5°	36.7	34.0	32.6	29.9	28.5	28.5	27.2	27.2	27.2	25.8
65°	31.2	29.9	28.5	27.2	25.8	24.4	24.4	23.1	23.1	23.1
67.5°	25.8	24.4	23.1	23.1	21.7	20.4	20.4	20.4	20.4	19.0
70°	20.4	19.0	19.0	17.7	17.7	17.7	16.3	16.3	16.3	16.3
72.5°	14.9	14.9	13.6	13.6	13.6	13.6	12.2	12.2	12.2	12.2
75°	10.9	10.9	10.9	9.5	9.5	9.5	8.1	8.1	8.1	8.1
77.5°	6.8	6.8	6.8	6.8	6.8	5.4	5.4	5.4	5.4	5.4
80°	4.1	4.1	4.1	4.1	2.7	2.7	2.7	2.7	2.7	1.4
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	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)