

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: P1342894

Luminaire Tested: P3A09R459030D2WDE010 E3A301H

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1342894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R459030D2WDE010 E3A301H
Description: 3in Adjustable Dim to Warm LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , E3A301H TRIM
Light Source: -
Ballast/Driver: -

Summary

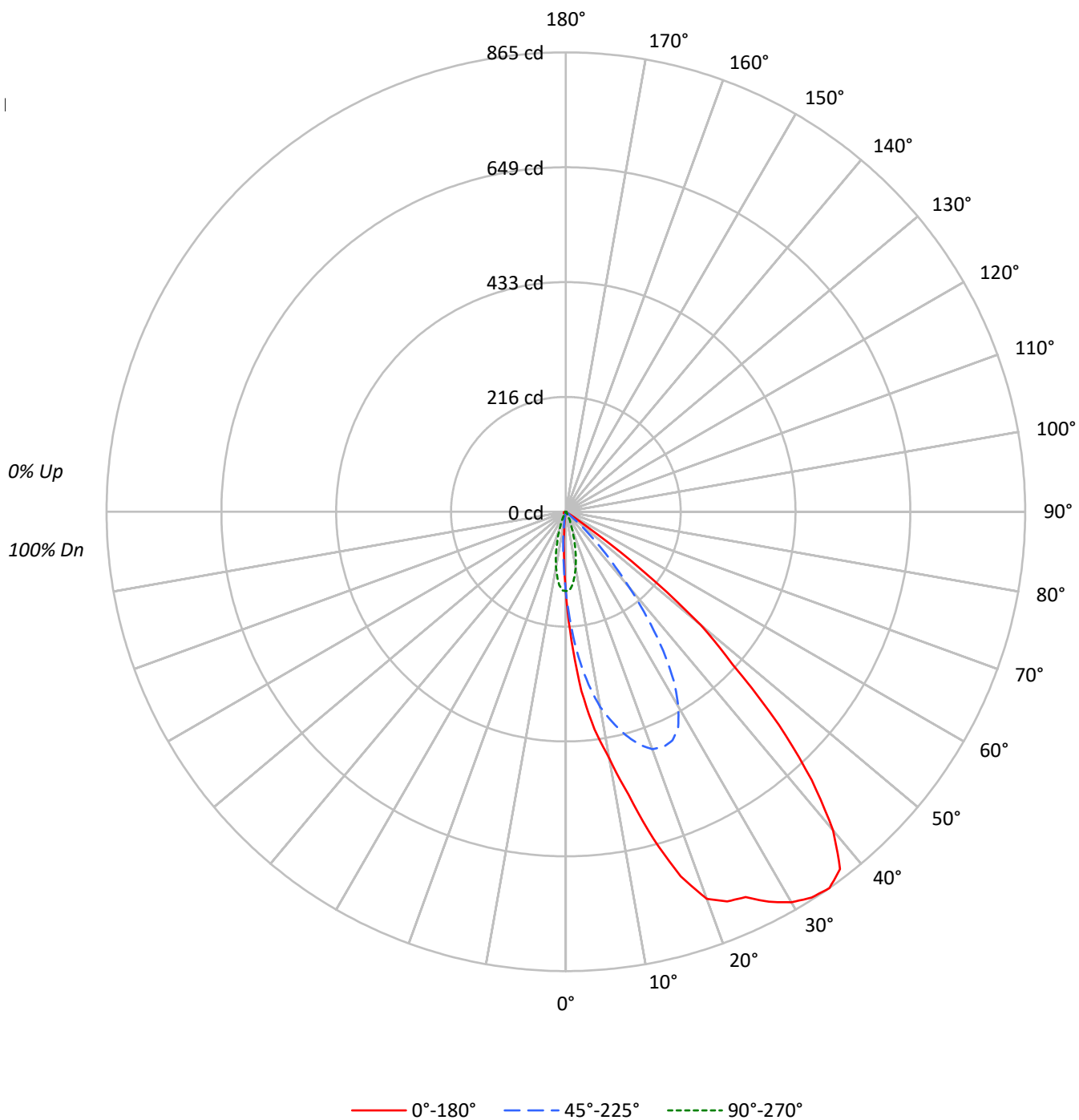
Lumens per Lamp: N/A
Luminaire Lumens: 392.1 lumens
Efficiency: N/A
Efficacy: 26.7 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.7
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
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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	84	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	46	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	32717	32717	32717	32717	32717
5°	74554	60466	30596	12261	8364
10°	105053	83076	23647	2694	1247
15°	144745	98843	15119	885	749
20°	181012	111006	7887	607	607
25°	193705	114926	3653	484	556
30°	214995	107333	1671	506	582
35°	231607	85554	535	535	696
40°	224106	53014	286	658	859
45°	175987	24995	310	806	1023
50°	113054	2900	443	1023	1330
55°	17165	268	497	1262	1644
60°	307	307	570	1447	1710
65°	363	363	675	1557	2024
70°	449	449	833	1667	2308
75°	254	593	1101	1949	2542
80°	379	884	1263	2020	2904
85°	0	755	1761	2516	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 175987 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.3	4.2
10°-20°	59.0	15.1
20°-30°	103.7	26.4
30°-40°	117.7	30.0
40°-50°	76.2	19.4
50°-60°	15.0	3.8
60°-70°	1.8	0.5
70°-80°	1.5	0.4
80°-90°	0.7	0.2
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°	179.0	45.7
0°-40°	296.8	75.7
0°-60°	388.0	99.0
0°-90°	392.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	392.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	149	149	149	149	149	
5°	339	275	139	56	38	36
15°	638	435	67	4	3	184
25°	801	475	15	2	2	375
35°	865	320	2	2	3	532
45°	568	81	1	3	3	428
55°	45	1	1	3	4	86
65°	1	1	1	3	4	1
75°	0	1	1	2	3	0
85°	0	0	1	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2
2.5°	242.3	241.6	242.6	236.0	235.7	230.8	229.5	223.9	216.4	212.8	204.2
5°	338.7	335.4	335.4	327.5	324.9	319.3	309.8	298.0	288.2	274.7	260.3
7.5°	413.1	412.4	412.4	405.5	399.0	391.1	378.3	364.9	349.1	328.5	307.5
10°	471.8	472.7	469.8	463.6	454.0	445.5	430.4	414.1	394.7	373.1	345.2
12.5°	545.8	538.6	536.3	522.2	510.1	493.7	475.7	457.0	433.1	405.9	374.4
15°	637.6	628.5	619.3	600.6	580.3	555.0	526.8	499.3	468.5	435.4	396.0
17.5°	719.6	719.6	707.5	678.0	651.7	614.4	576.3	539.6	503.2	459.6	410.4
20°	775.7	772.7	763.5	741.9	712.1	669.8	620.3	568.8	524.9	475.7	418.6
22.5°	794.0	793.4	793.7	780.9	757.0	713.0	652.4	591.7	536.7	479.6	414.7
25°	800.6	801.9	805.2	800.2	782.2	738.3	672.1	602.6	540.3	475.0	399.6
27.5°	827.8	825.2	828.8	825.5	805.2	752.7	676.0	599.9	532.4	458.3	372.7
30°	849.1	848.4	854.7	851.7	825.2	761.9	672.4	590.1	513.1	423.9	330.5
32.5°	861.2	861.5	863.2	851.1	811.7	741.9	654.7	570.1	476.7	379.0	275.4
35°	865.2	863.2	854.0	824.2	770.4	695.7	611.1	522.6	427.2	319.6	217.7
37.5°	848.1	837.9	814.3	769.8	707.5	637.6	555.3	462.6	359.3	252.4	162.3
40°	782.9	769.4	739.6	694.0	636.0	568.5	484.2	387.2	278.7	185.2	114.1
42.5°	685.2	678.3	647.1	607.5	558.3	490.1	403.2	304.9	206.2	127.9	72.8
45°	567.5	558.6	539.0	503.9	465.2	393.7	312.8	218.3	140.6	80.6	36.1
47.5°	425.5	426.2	412.7	386.2	348.2	288.5	214.1	146.5	88.2	41.6	8.2
50°	331.4	326.8	307.8	280.6	236.4	192.1	138.3	92.4	46.6	8.5	0.7
52.5°	183.6	186.5	176.4	167.5	144.6	114.7	81.6	46.9	9.8	1.0	0.7
55°	44.9	47.5	45.6	46.6	48.2	42.9	33.1	9.2	1.0	0.7	0.7
57.5°	1.0	1.0	1.0	1.0	1.6	2.3	2.3	0.7	0.7	0.7	0.7
60°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
62.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7
82.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2
2.5°	200.0	193.7	182.3	148.2	119.0	96.1	82.3	81.0
5°	247.5	230.8	206.5	139.0	87.9	55.7	40.3	38.0
7.5°	285.2	261.6	224.2	123.9	60.0	28.5	15.7	13.1
10°	316.4	282.9	233.4	106.2	37.7	12.1	6.6	5.6
12.5°	337.7	297.3	235.1	86.5	21.6	5.9	4.3	3.9
15°	351.4	301.9	227.2	66.6	12.1	3.9	3.6	3.3
17.5°	357.0	298.0	212.1	48.2	6.6	3.0	3.0	3.0
20°	354.4	285.2	189.8	33.8	4.3	2.6	2.6	2.6
22.5°	341.9	263.2	161.9	22.6	3.0	2.3	2.3	2.3
25°	317.3	233.4	132.4	15.1	2.0	2.0	2.3	2.3
27.5°	280.6	196.7	101.3	10.2	1.6	2.0	2.3	2.3
30°	234.4	155.7	72.8	6.6	1.6	2.0	2.0	2.3
32.5°	186.2	113.4	47.9	3.9	1.3	2.0	2.3	2.6
35°	135.1	77.4	30.5	2.0	1.6	2.0	2.3	2.6
37.5°	94.7	50.5	17.7	1.3	1.6	2.0	2.6	2.6
40°	61.6	28.2	6.6	1.0	1.6	2.3	2.6	3.0
42.5°	32.1	9.8	1.3	1.0	1.6	2.3	3.0	3.3
45°	8.2	1.3	0.3	1.0	2.0	2.6	3.3	3.3
47.5°	1.0	0.3	0.3	1.3	2.0	3.0	3.3	3.6
50°	0.3	0.7	0.7	1.3	2.0	3.0	3.6	3.9
52.5°	0.7	0.7	0.7	1.3	2.3	3.0	3.9	4.3
55°	0.7	0.7	0.7	1.3	2.3	3.3	3.9	4.3
57.5°	0.7	0.7	0.7	1.3	2.3	3.3	3.9	3.9
60°	0.7	0.7	0.7	1.3	2.3	3.3	3.9	3.9
62.5°	0.7	0.7	1.0	1.3	2.3	3.0	3.9	3.9
65°	0.7	1.0	1.0	1.3	2.3	3.0	3.6	3.9
67.5°	0.7	0.7	1.0	1.3	2.3	3.0	3.6	3.9
70°	0.7	0.7	1.0	1.3	2.0	2.6	3.3	3.6
72.5°	0.7	0.7	1.0	1.3	2.0	2.6	3.0	3.3
75°	0.7	0.7	1.0	1.3	1.6	2.3	3.0	3.0
77.5°	0.7	0.7	1.0	1.0	1.6	2.0	2.6	2.6
80°	0.7	0.7	1.0	1.0	1.3	1.6	2.0	2.3
82.5°	0.7	0.7	0.7	1.0	1.0	1.3	1.6	1.6
85°	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0
87.5°	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)