

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: P1343403

Luminaire Tested: P3A13R159030D2WDE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R159030D2WDE010 E3A301GPH
Description: 3in Adjustable Dim to Warm LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,
E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

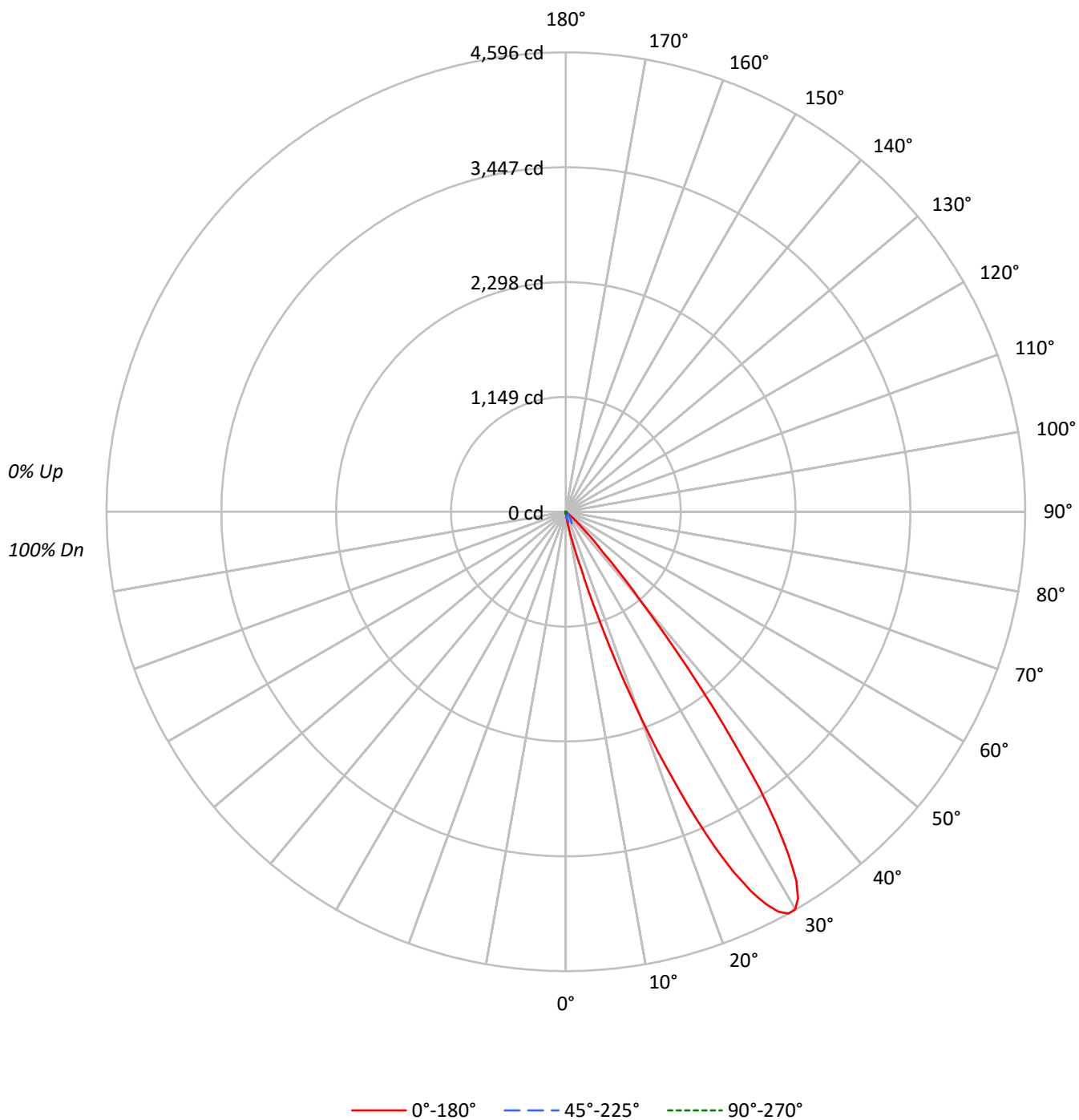
Lumens per Lamp: N/A
Luminaire Lumens: 502.1 lumens
Efficiency: N/A
Efficacy: 25.0 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.1
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
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	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	47	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3640	3640	3640	3640	3640
5°	7836	5811	3434	1827	1497
10°	34802	10977	2716	757	534
15°	131579	25380	1884	341	227
20°	506051	35773	1143	117	117
25°	962330	33558	581	0	0
30°	1162508	27067	253	0	0
35°	906674	18444	134	0	0
40°	330877	9074	143	0	143
45°	84939	2729	155	0	310
50°	14328	341	171	171	512
55°	1873	0	382	573	918
60°	219	219	658	877	1272
65°	259	259	1038	1245	1505
70°	321	321	1282	1282	1539
75°	424	424	1694	1271	1694
80°	0	631	1894	1263	1894
85°	0	1258	3774	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 84939 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.5
10°-20°	38.5	7.7
20°-30°	213.4	42.5
30°-40°	206.1	41.1
40°-50°	35.9	7.1
50°-60°	2.6	0.5
60°-70°	1.5	0.3
70°-80°	1.3	0.3
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°	254.1	50.6
0°-40°	460.2	91.7
0°-60°	498.7	99.3
0°-90°	502.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	502.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	36	26	16	8	7	7
15°	580	112	8	2	1	258
25°	3977	139	2	0	0	1778
35°	3387	69	0	0	0	1948
45°	274	9	0	0	1	294
55°	5	0	1	2	2	9
65°	0	0	2	2	3	0
75°	0	0	2	2	2	0
85°	0	0	2	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
2.5°	24.4	23.4	23.9	23.9	23.9	23.9	23.9	23.0	23.0	23.4	21.0
5°	35.6	35.6	35.2	35.6	35.6	35.2	34.2	33.7	33.7	32.7	26.4
7.5°	71.3	70.3	70.3	69.3	64.5	63.0	62.0	59.6	55.2	54.2	34.2
10°	156.3	156.8	153.3	148.9	148.4	141.1	138.7	134.3	126.0	117.7	49.3
12.5°	283.7	277.4	269.1	269.6	255.4	250.5	239.3	227.1	214.4	201.2	81.1
15°	579.6	561.6	572.3	545.9	516.2	482.5	448.3	405.3	368.7	329.6	111.8
17.5°	1220.8	1238.4	1208.6	1095.8	1026.4	944.9	830.1	719.3	624.6	548.4	136.7
20°	2168.6	2194.5	2093.4	1995.3	1826.8	1643.2	1451.8	1235.0	1027.4	847.7	153.3
21°	2564.7	2549.0	2507.5	2350.3	2155.9	1943.0	1708.6	1469.4	1217.9	984.5	154.8
22°	2947.5	2954.8	2858.1	2693.6	2491.4	2255.5	1969.4	1674.0	1402.9	1095.8	152.4
23°	3328.9	3352.3	3224.4	3070.1	2815.7	2549.5	2218.4	1899.6	1564.6	1223.2	147.5
24°	3681.9	3665.8	3579.4	3385.0	3113.0	2801.5	2457.7	2071.0	1697.4	1332.1	143.6
25°	3977.4	3975.4	3839.7	3650.7	3339.6	2994.4	2615.4	2211.1	1811.2	1405.9	138.7
26°	4219.1	4179.5	4072.6	3842.1	3534.9	3170.7	2744.8	2313.2	1875.1	1443.0	133.8
27°	4405.6	4377.3	4233.7	3994.0	3673.1	3270.3	2827.9	2364.0	1904.4	1455.2	127.5
28°	4531.1	4500.4	4347.5	4100.4	3749.3	3332.8	2871.8	2385.4	1904.4	1443.5	121.6
29°	4596.1	4554.1	4401.7	4137.0	3766.9	3340.1	2861.1	2364.4	1874.7	1407.3	114.8
30°	4591.2	4538.9	4379.3	4103.8	3714.6	3280.0	2801.0	2288.8	1807.3	1353.6	106.9
31°	4512.1	4453.5	4275.2	3991.5	3606.7	3166.8	2687.7	2187.2	1715.0	1283.8	99.1
32°	4351.4	4277.2	4103.4	3820.6	3440.7	2997.3	2523.1	2030.4	1576.8	1181.7	90.8
33°	4089.7	4015.0	3828.4	3563.3	3216.1	2782.4	2304.9	1862.0	1419.5	1060.1	84.0
34°	3762.0	3693.7	3533.0	3265.9	2932.8	2510.5	2053.9	1629.0	1256.4	939.5	76.7
35°	3387.0	3278.1	3132.6	2921.1	2596.4	2171.6	1782.9	1412.2	1088.5	813.1	68.9
36°	2879.6	2899.2	2744.8	2486.0	2217.0	1883.9	1510.9	1177.3	910.2	692.9	62.0
37°	2429.9	2399.1	2301.0	2100.8	1866.4	1535.8	1266.2	998.1	765.7	586.0	54.7
38°	1960.1	1967.0	1870.8	1716.9	1484.5	1262.8	1019.1	819.9	640.7	498.6	47.9
39°	1534.3	1528.9	1503.0	1360.5	1150.0	1004.5	825.7	679.7	533.7	420.4	40.5
40°	1155.9	1164.6	1104.1	1018.1	895.6	775.9	657.8	542.0	441.4	354.5	31.7
42.5°	562.1	575.7	535.7	513.7	459.5	412.6	348.2	284.2	241.7	209.0	14.2
45°	273.9	266.1	262.7	252.0	239.3	213.9	189.5	162.6	142.1	122.6	8.8
47.5°	140.1	136.2	136.2	131.8	127.5	119.2	106.9	98.2	88.4	76.2	3.4
50°	42.0	41.5	41.0	41.5	40.0	41.5	42.5	43.0	39.1	38.6	1.0
52.5°	16.6	17.1	16.6	18.1	18.1	17.6	18.1	17.6	17.1	15.1	0.0
55°	4.9	4.9	4.9	4.9	4.9	4.9	5.4	5.9	5.4	5.9	0.0
57.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	16.6	16.6	16.6	16.6	16.6	16.6
2.5°	19.5	17.1	14.2	11.7	10.7	10.3
5°	21.0	15.6	10.7	8.3	7.3	6.8
7.5°	22.5	14.2	8.3	5.9	4.4	3.9
10°	23.4	12.2	6.3	3.4	2.4	2.4
12.5°	23.4	9.8	4.4	2.0	1.5	1.5
15°	23.0	8.3	2.9	1.5	1.0	1.0
17.5°	22.5	6.3	2.0	1.0	0.5	1.0
20°	21.0	4.9	1.0	0.5	0.5	0.5
21°	20.5	4.4	1.0	0.5	0.5	0.5
22°	19.5	3.9	0.5	0.0	0.5	0.5
23°	18.6	2.9	0.5	0.0	0.0	0.0
24°	17.1	2.4	0.5	0.0	0.0	0.0
25°	16.1	2.4	0.5	0.0	0.0	0.0
26°	15.1	1.5	0.0	0.0	0.0	0.0
27°	13.7	1.0	0.0	0.0	0.0	0.0
28°	12.7	1.0	0.0	0.0	0.0	0.0
29°	11.2	1.0	0.0	0.0	0.0	0.0
30°	9.8	1.0	0.0	0.0	0.0	0.0
31°	7.8	0.5	0.0	0.0	0.0	0.0
32°	6.3	0.5	0.0	0.0	0.0	0.0
33°	4.4	0.5	0.0	0.0	0.0	0.0
34°	2.9	0.5	0.0	0.0	0.0	0.0
35°	2.4	0.5	0.0	0.0	0.0	0.0
36°	1.5	0.5	0.0	0.0	0.0	0.5
37°	1.5	0.5	0.0	0.0	0.0	0.5
38°	1.0	0.5	0.0	0.0	0.0	0.5
39°	0.5	0.5	0.0	0.0	0.0	0.5
40°	0.5	0.5	0.0	0.0	0.0	0.5
42.5°	0.0	0.5	0.0	0.0	0.5	1.0
45°	0.0	0.5	0.0	0.0	0.5	1.0
47.5°	0.0	0.5	0.0	0.0	1.0	1.0
50°	0.0	0.5	0.5	0.5	1.0	1.5
52.5°	0.0	1.0	0.5	1.0	1.5	2.0
55°	0.5	1.0	1.0	1.5	2.0	2.4
57.5°	0.5	1.5	1.5	2.0	2.4	2.4
60°	1.0	1.5	2.0	2.0	2.9	2.9
62.5°	1.0	2.0	2.0	2.0	2.9	2.9
65°	1.0	2.0	2.0	2.4	2.9	2.9
67.5°	1.0	2.0	2.0	2.0	2.4	2.9
70°	1.0	2.0	1.5	2.0	2.4	2.4
72.5°	1.0	2.0	1.5	1.5	2.0	2.4
75°	1.0	2.0	1.5	1.5	2.0	2.0
77.5°	1.0	1.5	1.5	1.0	1.5	1.5
80°	1.0	1.5	1.0	1.0	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.0	1.5	1.0	0.5	1.0	1.0
85°	1.0	1.5	1.0	0.5	0.5	0.5
87.5°	1.0	1.5	0.5	0.0	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)