

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: P1346103

Luminaire Tested: P3A13R409835DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R409835DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

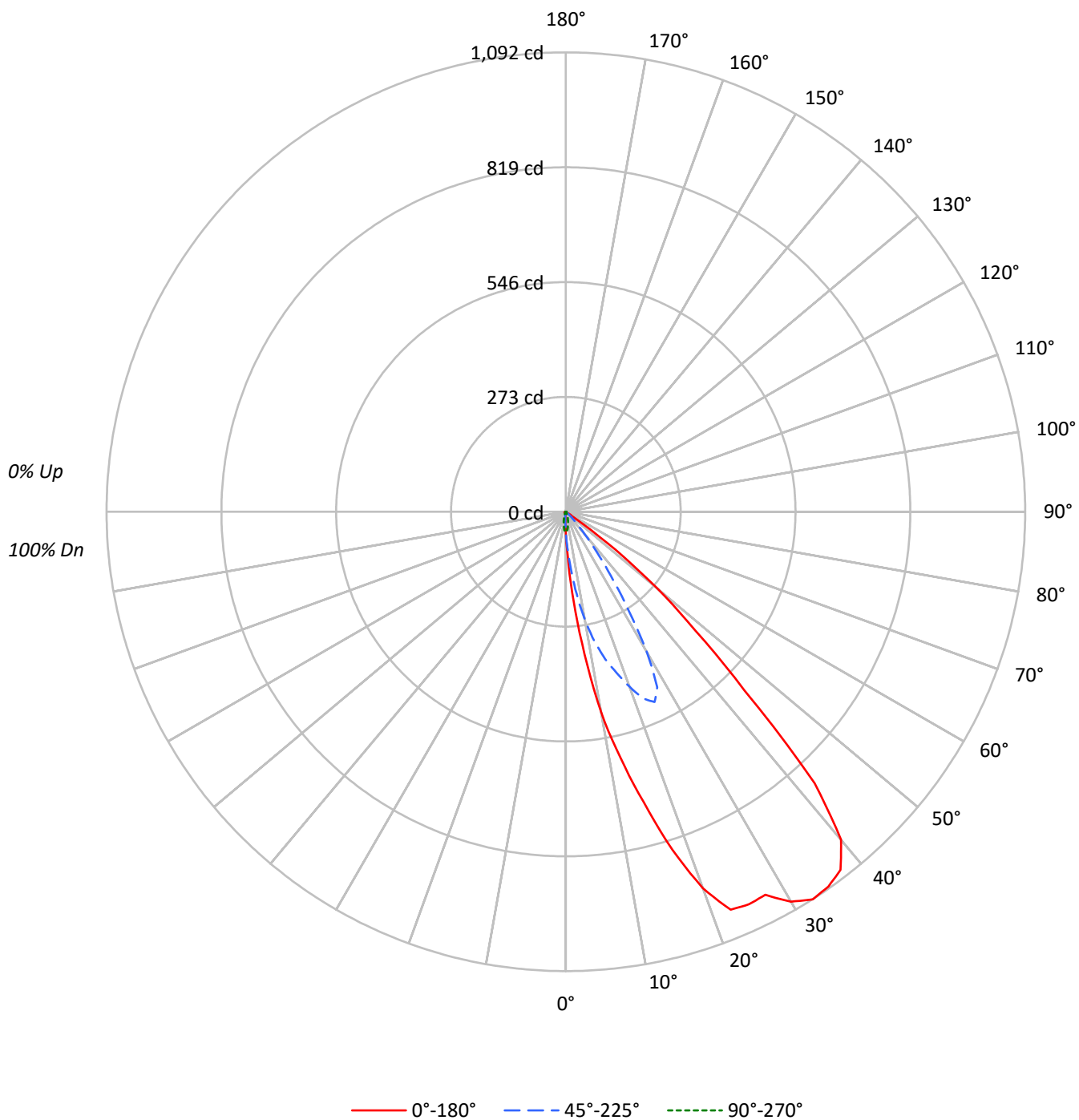
Lumens per Lamp: N/A
Luminaire Lumens: 403.0 lumens
Efficiency: N/A
Efficacy: 27.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	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	80	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	56	52	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10460	10460	10460	10460	10460
5°	47149	30068	9377	3588	2619
10°	108148	58093	6591	1291	980
15°	162294	82430	4109	704	613
20°	222223	103329	2380	397	467
25°	249135	120733	1234	339	411
30°	270978	97458	506	253	430
35°	291222	49871	187	375	535
40°	291317	19894	86	401	687
45°	186004	6667	217	620	961
50°	96543	819	341	819	1160
55°	8334	115	382	1032	1415
60°	307	132	439	1184	1623
65°	363	156	726	1245	1764
70°	192	192	898	1282	1731
75°	254	254	847	1440	2033
80°	379	379	1263	1263	1768
85°	0	755	2516	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 186004 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	2.3
10°-20°	54.5	13.5
20°-30°	119.5	29.6
30°-40°	136.1	33.8
40°-50°	71.8	17.8
50°-60°	8.5	2.1
60°-70°	1.5	0.4
70°-80°	1.2	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°	183.3	45.5
0°-40°	319.4	79.3
0°-60°	399.6	99.2
0°-90°	403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	403.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	214	137	43	16	12	29
15°	715	363	18	3	3	211
25°	1030	499	5	1	2	474
35°	1088	186	1	1	2	674
45°	600	22	1	2	3	484
55°	22	0	1	3	4	68
65°	1	0	1	2	3	1
75°	0	0	1	2	2	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°	67.5°
0°	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
2.5°	106.3	106.3	105.9	102.9	102.5	102.2	96.7	95.4	88.9	84.5	64.4
5°	214.2	209.5	209.1	203.7	194.5	182.2	174.4	161.8	149.5	136.6	79.4
7.5°	341.3	345.4	334.1	328.3	307.9	293.3	270.8	251.0	223.4	197.6	91.6
10°	485.7	478.6	467.3	456.1	433.9	407.7	374.3	339.2	299.4	260.9	98.4
12.5°	598.4	589.3	582.4	567.1	545.3	511.6	471.7	424.7	371.9	316.4	98.1
15°	714.9	705.7	690.4	676.8	644.4	606.6	563.4	501.4	436.7	363.1	90.9
17.5°	843.0	831.1	814.1	793.3	761.9	720.0	665.2	589.6	498.0	401.2	78.0
20°	952.3	945.2	928.2	903.6	873.0	832.1	768.8	685.0	573.2	442.8	62.0
22.5°	1023.9	1017.4	1005.8	984.4	961.2	917.6	859.7	767.7	636.3	480.6	47.0
25°	1029.7	1026.9	1023.9	1016.7	1002.8	971.8	915.2	816.1	675.4	499.0	34.7
27.5°	1026.6	1025.6	1024.9	1021.1	1011.9	981.3	923.4	823.3	670.3	470.4	25.5
30°	1070.2	1067.1	1065.4	1053.2	1029.0	981.6	906.0	784.8	595.7	384.9	18.4
32.5°	1092.3	1091.6	1089.9	1078.0	1044.0	982.3	876.7	691.8	472.4	277.9	12.6
35°	1087.9	1084.5	1078.4	1056.2	1008.9	931.6	782.0	552.5	340.9	186.3	8.2
37.5°	1072.9	1065.1	1053.2	1013.3	950.3	844.7	634.2	406.7	232.0	120.6	4.8
40°	1017.7	1007.2	988.4	939.7	857.0	696.2	469.0	274.9	152.3	69.5	1.4
42.5°	875.0	861.4	847.8	793.3	698.6	519.1	308.6	170.0	86.9	38.1	0.3
45°	599.8	582.8	564.0	524.5	448.6	314.4	183.6	95.7	45.0	21.5	0.3
47.5°	416.6	408.7	376.0	325.6	249.7	166.6	95.0	47.0	23.8	9.9	0.3
50°	283.0	274.2	236.0	187.3	132.8	79.7	43.6	23.5	10.6	2.4	0.3
52.5°	148.5	137.6	113.4	86.5	53.8	33.4	19.1	10.2	3.1	0.3	0.3
55°	21.8	20.1	16.3	13.3	11.9	9.2	5.4	2.4	0.3	0.3	0.7
57.5°	0.7	0.7	0.7	0.7	1.0	1.0	0.7	0.3	0.3	0.3	0.7
60°	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.7
62.5°	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.7
67.5°	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.7	1.0
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.0
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.0
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.7
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):

	90°	112.5°	135°	157.5°	180°
0°	47.7	47.7	47.7	47.7	47.7
2.5°	47.0	34.7	26.9	23.2	22.8
5°	42.6	24.9	16.3	12.6	11.9
7.5°	36.1	17.4	9.5	6.8	6.5
10°	29.6	11.9	5.8	4.8	4.4
12.5°	23.5	7.8	4.1	3.7	3.4
15°	18.1	5.1	3.1	2.7	2.7
17.5°	13.6	3.4	2.4	2.4	2.4
20°	10.2	2.4	1.7	2.0	2.0
22.5°	7.2	1.7	1.4	1.7	1.7
25°	5.1	1.4	1.4	1.7	1.7
27.5°	3.4	1.0	1.0	1.4	1.7
30°	2.0	0.7	1.0	1.4	1.7
32.5°	1.0	0.7	1.0	1.7	1.7
35°	0.7	1.0	1.4	1.7	2.0
37.5°	0.3	1.0	1.4	2.0	2.0
40°	0.3	1.0	1.4	2.0	2.4
42.5°	0.7	1.4	1.7	2.4	2.7
45°	0.7	1.4	2.0	2.7	3.1
47.5°	0.7	1.4	2.4	3.1	3.1
50°	1.0	1.7	2.4	3.1	3.4
52.5°	1.0	1.7	2.4	3.4	3.7
55°	1.0	1.7	2.7	3.4	3.7
57.5°	1.0	2.0	2.7	3.4	3.7
60°	1.0	1.7	2.7	3.4	3.7
62.5°	1.4	1.7	2.4	3.4	3.4
65°	1.4	1.7	2.4	3.4	3.4
67.5°	1.4	1.7	2.4	3.1	3.1
70°	1.4	1.7	2.0	2.7	2.7
72.5°	1.4	1.7	2.0	2.4	2.7
75°	1.0	1.4	1.7	2.0	2.4
77.5°	1.0	1.4	1.4	2.0	2.0
80°	1.0	1.0	1.0	1.4	1.4
82.5°	1.0	1.0	0.7	1.0	1.0
85°	1.0	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)