

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: P1346119

Luminaire Tested: P3A13R409840DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346119
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: P3A13R409840DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

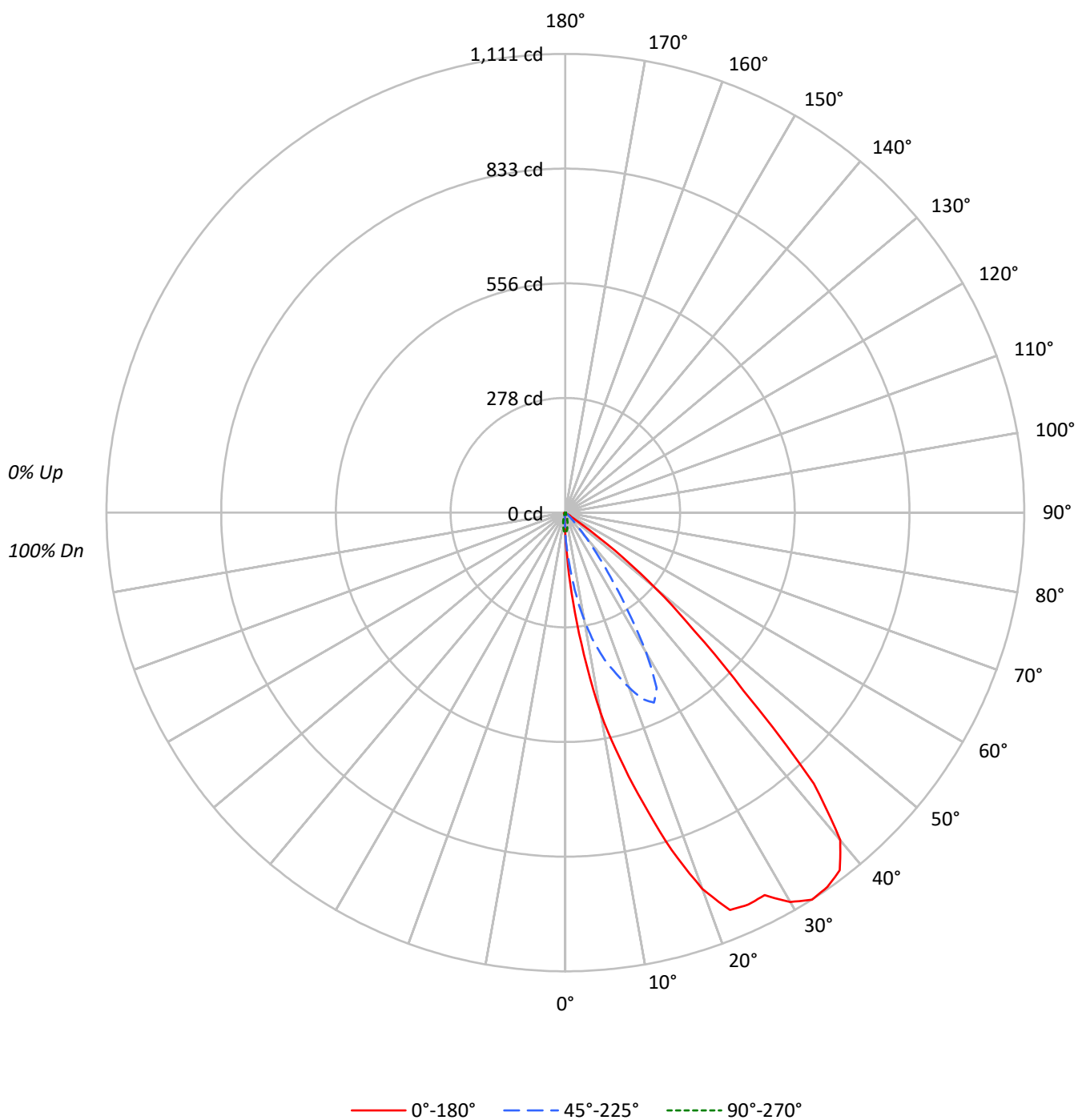
Lumens per Lamp: N/A
Luminaire Lumens: 409.9 lumens
Efficiency: N/A
Efficacy: 28.3 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			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	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88		92	89	86		89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82	79	76	74
4	92	83	77	71	90	82	76	71	80	74	70		78	73	69		76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63		71	66	62		70	65	62	60
6	80	70	63	57	79	69	62	57	67	61	57		66	60	56		64	60	56	54
7	75	64	57	52	74	63	56	52	62	56	51		61	55	51		59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55	50	46	44
9	66	54	47	42	65	54	47	42	53	46	42		52	46	42		51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10635	10635	10635	10635	10635
5°	47986	30596	9531	3654	2663
10°	110018	59095	6702	1314	1002
15°	165131	83860	4177	704	636
20°	226096	105126	2427	397	490
25°	253442	122838	1258	339	411
30°	275688	99154	532	253	430
35°	296282	50728	187	375	562
40°	296384	20238	86	401	687
45°	189229	6760	217	651	961
50°	98248	819	341	819	1194
55°	8487	115	382	1070	1453
60°	307	132	439	1228	1667
65°	363	156	726	1245	1816
70°	192	192	898	1346	1795
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: 189229 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	2.3
10°-20°	55.5	13.5
20°-30°	121.5	29.6
30°-40°	138.5	33.8
40°-50°	73.0	17.8
50°-60°	8.6	2.1
60°-70°	1.5	0.4
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°	186.5	45.5
0°-40°	324.9	79.3
0°-60°	406.6	99.2
0°-90°	409.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	409.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	218	139	43	17	12	29
15°	727	369	18	3	3	214
25°	1048	508	5	1	2	483
35°	1107	190	1	1	2	686
45°	610	22	1	2	3	492
55°	22	0	1	3	4	69
65°	1	0	1	2	4	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°	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
2.5°	108.1	108.1	107.8	104.7	104.3	104.0	98.4	97.0	90.4	85.9	65.5
5°	218.0	213.1	212.8	207.2	197.9	185.4	177.4	164.6	152.1	139.0	80.7
7.5°	347.2	351.4	339.9	334.0	313.3	298.4	275.5	255.4	227.3	201.0	93.2
10°	494.1	486.9	475.4	464.0	441.5	414.8	380.8	345.1	304.6	265.4	100.1
12.5°	608.8	599.5	592.6	577.0	554.8	520.5	479.9	432.1	378.4	321.9	99.8
15°	727.4	718.0	702.4	688.5	655.6	617.2	573.2	510.1	444.2	369.4	92.5
17.5°	857.6	845.5	828.2	807.1	775.2	732.6	676.8	599.8	506.6	408.2	79.4
20°	968.9	961.6	944.3	919.3	888.1	846.6	782.1	696.9	583.2	450.5	63.1
22.5°	1041.7	1035.1	1023.3	1001.5	977.9	933.5	874.6	781.1	647.3	488.9	47.8
25°	1047.5	1044.8	1041.7	1034.4	1020.2	988.6	931.1	830.3	687.2	507.7	35.3
27.5°	1044.4	1043.4	1042.7	1038.9	1029.5	998.3	939.4	837.6	682.0	478.6	26.0
30°	1088.8	1085.7	1083.9	1071.5	1046.9	998.7	921.8	798.4	606.1	391.6	18.7
32.5°	1111.3	1110.6	1108.9	1096.8	1062.1	999.4	892.0	703.8	480.6	282.8	12.8
35°	1106.8	1103.3	1097.1	1074.6	1026.4	947.7	795.6	562.1	346.9	189.5	8.3
37.5°	1091.6	1083.6	1071.5	1030.9	966.8	859.4	645.2	413.8	236.0	122.7	4.9
40°	1035.4	1024.7	1005.6	956.1	871.9	708.3	477.2	279.6	154.9	70.7	1.4
42.5°	890.2	876.4	862.5	807.1	710.7	528.1	314.0	172.9	88.4	38.8	0.3
45°	610.2	592.9	573.8	533.6	456.4	319.8	186.8	97.4	45.7	21.8	0.3
47.5°	423.8	415.8	382.6	331.3	254.0	169.5	96.7	47.8	24.3	10.0	0.3
50°	288.0	279.0	240.1	190.6	135.1	81.1	44.4	23.9	10.7	2.4	0.3
52.5°	151.1	140.0	115.4	88.0	54.8	34.0	19.4	10.4	3.1	0.3	0.3
55°	22.2	20.4	16.6	13.5	12.1	9.4	5.5	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°	48.5	48.5	48.5	48.5	48.5
2.5°	47.8	35.3	27.4	23.6	23.2
5°	43.3	25.3	16.6	12.8	12.1
7.5°	36.7	17.7	9.7	6.9	6.6
10°	30.1	12.1	5.9	4.9	4.5
12.5°	23.9	8.0	4.2	3.8	3.5
15°	18.4	5.2	3.1	2.8	2.8
17.5°	13.9	3.5	2.4	2.4	2.4
20°	10.4	2.4	1.7	2.1	2.1
22.5°	7.3	1.7	1.4	1.7	1.7
25°	5.2	1.4	1.4	1.7	1.7
27.5°	3.5	1.0	1.0	1.4	1.7
30°	2.1	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	2.1
37.5°	0.3	1.0	1.4	2.1	2.1
40°	0.3	1.0	1.4	2.1	2.4
42.5°	0.7	1.4	1.7	2.4	2.8
45°	0.7	1.4	2.1	2.8	3.1
47.5°	0.7	1.4	2.4	3.1	3.1
50°	1.0	1.7	2.4	3.1	3.5
52.5°	1.0	1.7	2.4	3.5	3.8
55°	1.0	1.7	2.8	3.5	3.8
57.5°	1.0	2.1	2.8	3.5	3.8
60°	1.0	1.7	2.8	3.5	3.8
62.5°	1.4	1.7	2.4	3.5	3.5
65°	1.4	1.7	2.4	3.5	3.5
67.5°	1.4	1.7	2.4	3.1	3.1
70°	1.4	1.7	2.1	2.8	2.8
72.5°	1.4	1.7	2.1	2.4	2.8
75°	1.0	1.4	1.7	2.1	2.4
77.5°	1.0	1.4	1.4	2.1	2.1
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)