

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: P1345895

Luminaire Tested: P3A13R409024DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345895
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: P3A13R409024DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 2400K CCT AND, 90CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

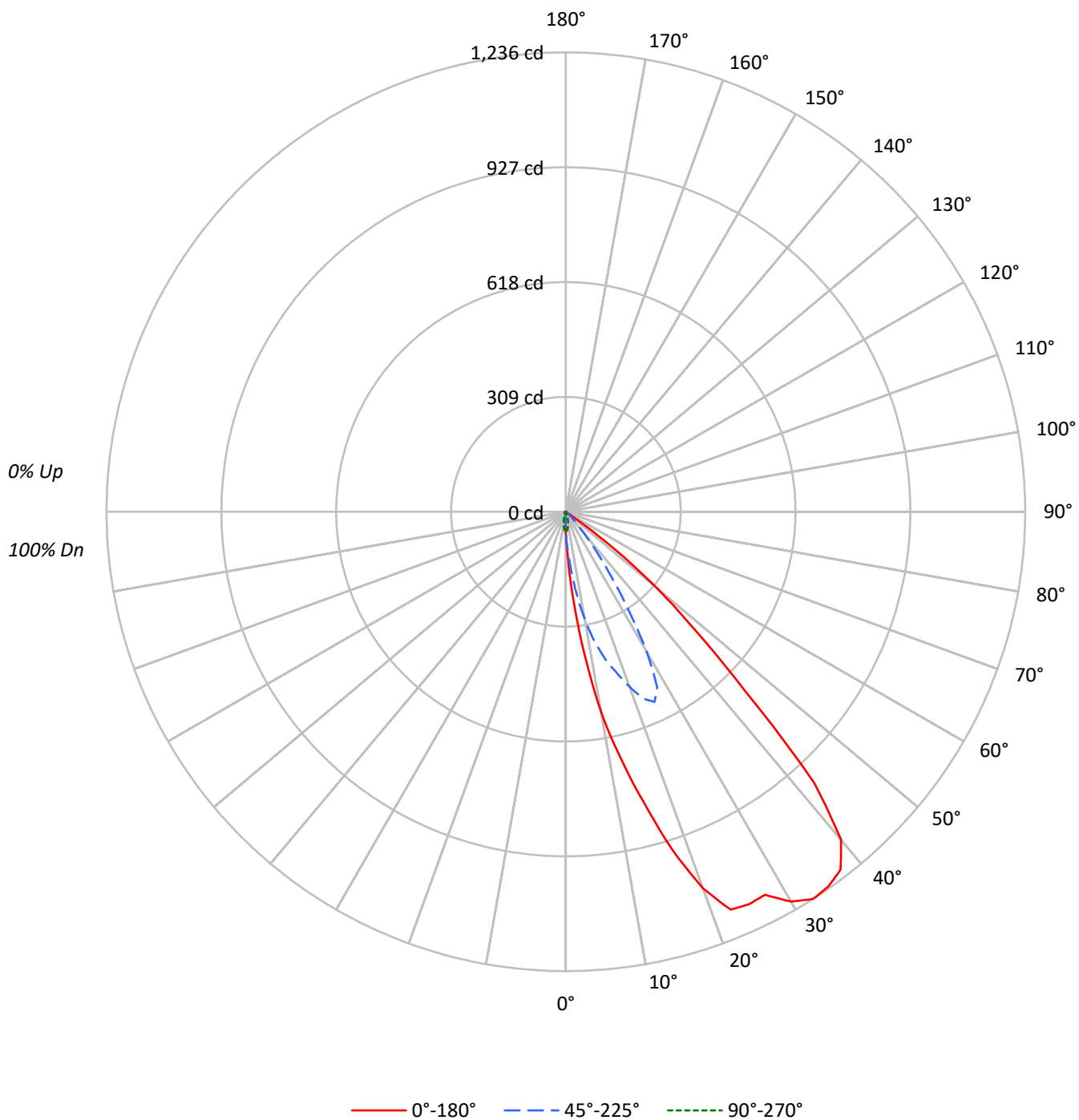
Lumens per Lamp: N/A
Luminaire Lumens: 456.1 lumens
Efficiency: N/A
Efficacy: 31.2 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96
2	105	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82
4	92	83	77	71	90	82	76	71	80	74	70		78	73	69		76
5	86	76	69	64	84	75	68	64	73	67	63		71	66	62		70
6	80	70	62	57	79	69	62	57	67	61	57		66	60	56		64
7	75	64	57	52	74	63	56	51	62	56	51		61	55	51		59
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55
9	66	54	47	42	65	54	47	42	53	46	42		52	46	42		51
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11841	11841	11841	11841	11841
5°	53357	34008	10610	4072	2972
10°	122376	65730	7459	1470	1113
15°	183656	93258	4631	795	704
20°	251462	116910	2707	443	537
25°	281895	136605	1403	363	460
30°	306604	110270	582	304	481
35°	329529	56430	214	402	616
40°	329646	22499	115	429	773
45°	210471	7536	248	713	1085
50°	109267	921	409	921	1330
55°	9443	153	459	1185	1606
60°	351	175	526	1360	1842
65°	415	208	778	1401	2024
70°	256	256	962	1475	1988
75°	339	339	1017	1610	2288
80°	505	505	1515	1515	1894
85°	0	1006	3019	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 210471 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	2.3
10°-20°	61.7	13.5
20°-30°	135.2	29.6
30°-40°	154.0	33.8
40°-50°	81.3	17.8
50°-60°	9.6	2.1
60°-70°	1.7	0.4
70°-80°	1.4	0.3
80°-90°	0.7	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°	207.4	45.5
0°-40°	361.4	79.2
0°-60°	452.2	99.2
0°-90°	456.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	456.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	54	54	54	54	54	
5°	242	154	48	18	14	33
15°	809	411	20	4	3	238
25°	1165	565	6	2	2	537
35°	1231	211	1	2	2	763
45°	679	24	1	2	4	547
55°	25	0	1	3	4	77
65°	1	0	2	3	4	1
75°	0	0	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°	67.5°
0°	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
2.5°	120.2	120.2	119.9	116.4	116.0	115.6	109.5	107.9	100.6	95.6	72.8
5°	242.4	237.0	236.6	230.5	220.1	206.2	197.3	183.1	169.2	154.5	89.8
7.5°	386.2	390.8	378.1	371.5	348.4	331.8	306.4	284.0	252.8	223.5	103.7
10°	549.6	541.5	528.8	516.1	491.0	461.3	423.6	383.9	338.8	295.2	111.4
12.5°	677.2	666.7	659.0	641.7	617.0	578.9	533.8	480.6	420.9	358.0	111.0
15°	809.0	798.6	781.2	765.8	729.2	686.4	637.5	567.3	494.1	410.8	102.9
17.5°	953.9	940.4	921.1	897.6	862.1	814.7	752.7	667.1	563.5	454.0	88.3
20°	1077.6	1069.5	1050.2	1022.5	987.8	941.5	869.9	775.0	648.6	501.0	70.1
22.5°	1158.5	1151.2	1138.1	1113.8	1087.6	1038.3	972.8	868.7	719.9	543.8	53.2
25°	1165.1	1162.0	1158.5	1150.4	1134.6	1099.6	1035.6	923.4	764.3	564.6	39.3
27.5°	1161.6	1160.4	1159.7	1155.4	1145.0	1110.3	1044.8	931.5	758.5	532.2	28.9
30°	1210.9	1207.5	1205.5	1191.7	1164.3	1110.7	1025.2	888.0	674.1	435.5	20.8
32.5°	1236.0	1235.2	1233.3	1219.8	1181.3	1111.5	992.0	782.8	534.6	314.5	14.3
35°	1231.0	1227.1	1220.2	1195.1	1141.6	1054.1	884.9	625.1	385.8	210.8	9.2
37.5°	1214.0	1205.2	1191.7	1146.6	1075.3	955.8	717.6	460.2	262.5	136.4	5.4
40°	1151.6	1139.6	1118.4	1063.3	969.7	787.8	530.7	311.0	172.3	78.6	1.5
42.5°	990.1	974.7	959.3	897.6	790.5	587.4	349.2	192.3	98.3	43.2	0.4
45°	678.7	659.4	638.2	593.5	507.6	355.7	207.7	108.3	50.9	24.3	0.4
47.5°	471.3	462.5	425.5	368.4	282.5	188.5	107.5	53.2	27.0	11.2	0.4
50°	320.3	310.2	267.1	212.0	150.3	90.2	49.3	26.6	11.9	2.7	0.4
52.5°	168.0	155.7	128.3	97.9	60.9	37.8	21.6	11.6	3.5	0.4	0.4
55°	24.7	22.7	18.5	15.0	13.5	10.4	6.2	2.7	0.4	0.4	0.8
57.5°	0.8	0.8	0.8	0.8	1.2	1.2	0.8	0.4	0.4	0.4	0.8
60°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8
62.5°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8
67.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.8	1.2
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
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°	54.0	54.0	54.0	54.0	54.0
2.5°	53.2	39.3	30.4	26.2	25.8
5°	48.2	28.1	18.5	14.3	13.5
7.5°	40.9	19.7	10.8	7.7	7.3
10°	33.5	13.5	6.6	5.4	5.0
12.5°	26.6	8.9	4.6	4.2	3.9
15°	20.4	5.8	3.5	3.1	3.1
17.5°	15.4	3.9	2.7	2.7	2.7
20°	11.6	2.7	1.9	2.3	2.3
22.5°	8.1	1.9	1.5	1.9	1.9
25°	5.8	1.5	1.5	1.9	1.9
27.5°	3.9	1.2	1.2	1.5	1.9
30°	2.3	0.8	1.2	1.5	1.9
32.5°	1.2	0.8	1.2	1.9	1.9
35°	0.8	1.2	1.5	1.9	2.3
37.5°	0.4	1.2	1.5	2.3	2.3
40°	0.4	1.2	1.5	2.3	2.7
42.5°	0.8	1.5	1.9	2.7	3.1
45°	0.8	1.5	2.3	3.1	3.5
47.5°	0.8	1.5	2.7	3.5	3.5
50°	1.2	1.9	2.7	3.5	3.9
52.5°	1.2	1.9	2.7	3.9	4.2
55°	1.2	1.9	3.1	3.9	4.2
57.5°	1.2	2.3	3.1	3.9	4.2
60°	1.2	1.9	3.1	3.9	4.2
62.5°	1.5	1.9	2.7	3.9	3.9
65°	1.5	1.9	2.7	3.9	3.9
67.5°	1.5	1.9	2.7	3.5	3.5
70°	1.5	1.9	2.3	3.1	3.1
72.5°	1.5	1.9	2.3	2.7	3.1
75°	1.2	1.5	1.9	2.3	2.7
77.5°	1.2	1.5	1.5	2.3	2.3
80°	1.2	1.2	1.2	1.5	1.5
82.5°	1.2	1.2	0.8	1.2	1.2
85°	1.2	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)