

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: P1346023

Luminaire Tested: P3A13R409730DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346023
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: P3A13R409730DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

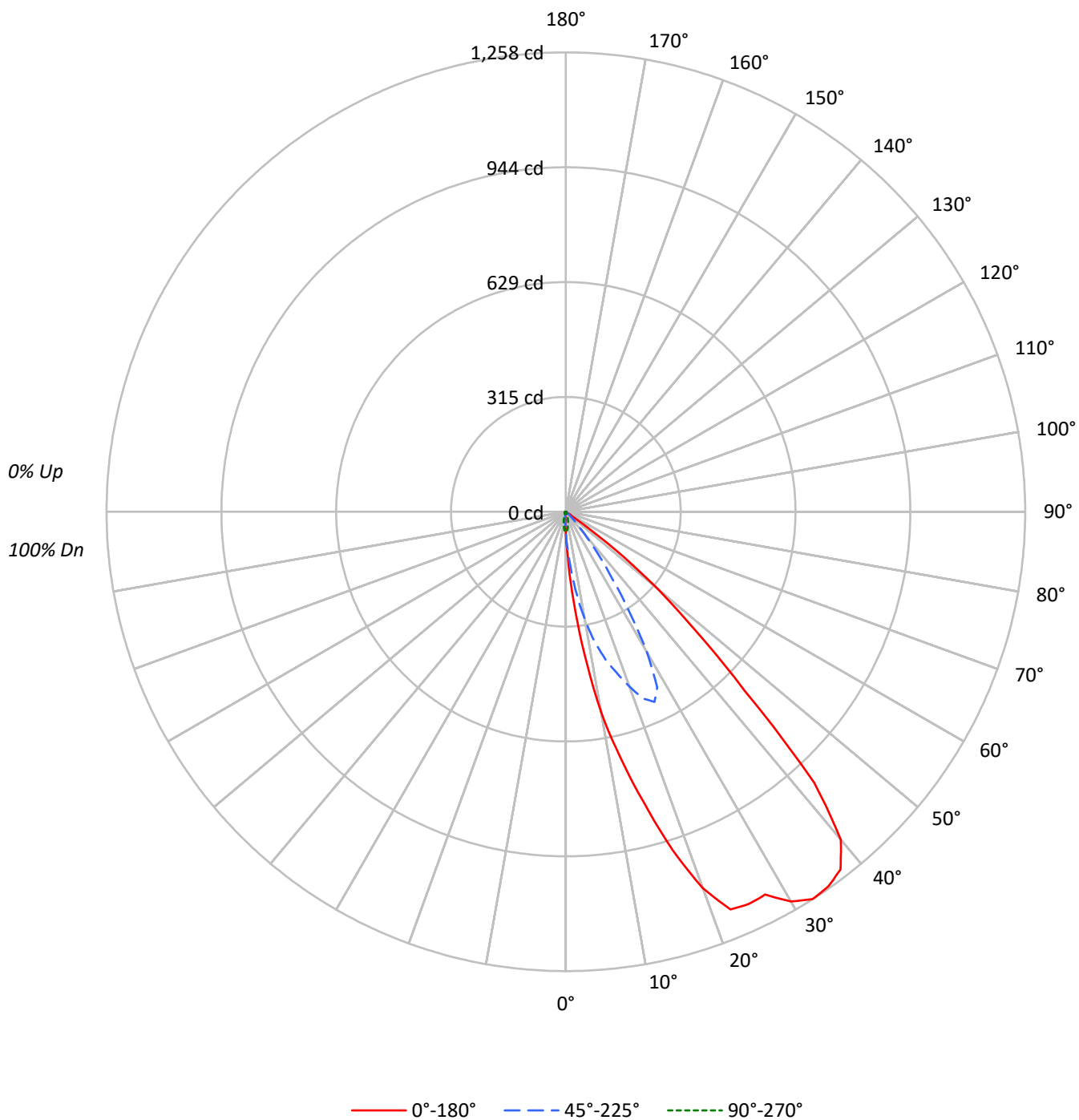
Lumens per Lamp: N/A
Luminaire Lumens: 464.1 lumens
Efficiency: N/A
Efficacy: 31.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			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	62	57	79	69	62	57	67	61	57		66	60	56		64	60	56	54
7	75	64	57	52	74	63	56	51	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°	12039	12039	12039	12039	12039
5°	54303	34625	10786	4138	3016
10°	124513	66888	7593	1492	1136
15°	186880	94893	4722	795	704
20°	255872	118964	2754	467	560
25°	286831	139000	1428	387	484
30°	311997	112194	608	304	506
35°	335311	57420	214	428	642
40°	335428	22900	115	458	773
45°	214162	7660	248	744	1085
50°	111178	921	409	921	1330
55°	9596	153	459	1185	1644
60°	351	175	526	1360	1886
65°	415	208	830	1401	2024
70°	256	256	1026	1539	1988
75°	339	339	1017	1694	2288
80°	505	505	1515	1515	2020
85°	0	1006	3019	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 214162 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.7	2.3
10°-20°	62.8	13.5
20°-30°	137.5	29.6
30°-40°	156.7	33.8
40°-50°	82.7	17.8
50°-60°	9.8	2.1
60°-70°	1.8	0.4
70°-80°	1.5	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°	211.0	45.5
0°-40°	367.7	79.2
0°-60°	460.2	99.2
0°-90°	464.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	464.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	55	55	55	55	55	
5°	247	157	49	19	14	33
15°	823	418	21	4	3	243
25°	1186	574	6	2	2	546
35°	1253	214	1	2	2	776
45°	691	25	1	2	4	557
55°	25	0	1	3	4	78
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°	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
2.5°	122.4	122.4	122.0	118.4	118.0	117.6	111.4	109.8	102.4	97.3	74.1
5°	246.7	241.2	240.8	234.5	223.9	209.8	200.8	186.3	172.2	157.3	91.4
7.5°	392.9	397.7	384.7	378.0	354.5	337.7	311.8	289.0	257.3	227.5	105.5
10°	559.2	551.0	538.0	525.1	499.6	469.4	431.0	390.6	344.7	300.4	113.3
12.5°	689.0	678.4	670.6	653.0	627.9	589.0	543.1	489.0	428.2	364.3	112.9
15°	823.2	812.6	794.9	779.2	742.0	698.4	648.6	577.3	502.8	418.0	104.7
17.5°	970.6	956.9	937.3	913.4	877.3	829.0	765.9	678.8	573.3	462.0	89.8
20°	1096.5	1088.3	1068.6	1040.4	1005.1	958.1	885.1	788.6	660.0	509.8	71.4
22.5°	1178.8	1171.4	1158.1	1133.4	1106.7	1056.5	989.8	883.9	732.6	553.3	54.1
25°	1185.5	1182.4	1178.8	1170.6	1154.5	1118.8	1053.7	939.6	777.7	574.5	40.0
27.5°	1182.0	1180.8	1180.0	1175.7	1165.1	1129.8	1063.2	947.9	771.8	541.6	29.4
30°	1232.2	1228.7	1226.7	1212.6	1184.7	1130.2	1043.2	903.5	685.9	443.1	21.2
32.5°	1257.7	1256.9	1254.9	1241.2	1202.0	1131.0	1009.4	796.5	543.9	320.0	14.5
35°	1252.6	1248.7	1241.6	1216.1	1161.6	1072.6	900.4	636.1	392.6	214.5	9.4
37.5°	1235.3	1226.3	1212.6	1166.7	1094.1	972.6	730.2	468.2	267.1	138.8	5.5
40°	1171.8	1159.6	1138.1	1082.0	986.7	801.6	540.0	316.5	175.3	80.0	1.6
42.5°	1007.5	991.8	976.1	913.4	804.3	597.7	355.3	195.7	100.0	43.9	0.4
45°	690.6	671.0	649.4	603.9	516.5	362.0	211.4	110.2	51.8	24.7	0.4
47.5°	479.6	470.6	432.9	374.9	287.5	191.8	109.4	54.1	27.5	11.4	0.4
50°	325.9	315.7	271.8	215.7	152.9	91.8	50.2	27.1	12.2	2.7	0.4
52.5°	171.0	158.4	130.6	99.6	62.0	38.4	22.0	11.8	3.5	0.4	0.4
55°	25.1	23.1	18.8	15.3	13.7	10.6	6.3	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°	54.9	54.9	54.9	54.9	54.9
2.5°	54.1	40.0	31.0	26.7	26.3
5°	49.0	28.6	18.8	14.5	13.7
7.5°	41.6	20.0	11.0	7.8	7.5
10°	34.1	13.7	6.7	5.5	5.1
12.5°	27.1	9.0	4.7	4.3	3.9
15°	20.8	5.9	3.5	3.1	3.1
17.5°	15.7	3.9	2.7	2.7	2.7
20°	11.8	2.7	2.0	2.4	2.4
22.5°	8.2	2.0	1.6	2.0	2.0
25°	5.9	1.6	1.6	2.0	2.0
27.5°	3.9	1.2	1.2	1.6	2.0
30°	2.4	0.8	1.2	1.6	2.0
32.5°	1.2	0.8	1.2	2.0	2.0
35°	0.8	1.2	1.6	2.0	2.4
37.5°	0.4	1.2	1.6	2.4	2.4
40°	0.4	1.2	1.6	2.4	2.7
42.5°	0.8	1.6	2.0	2.7	3.1
45°	0.8	1.6	2.4	3.1	3.5
47.5°	0.8	1.6	2.7	3.5	3.5
50°	1.2	2.0	2.7	3.5	3.9
52.5°	1.2	2.0	2.7	3.9	4.3
55°	1.2	2.0	3.1	3.9	4.3
57.5°	1.2	2.4	3.1	3.9	4.3
60°	1.2	2.0	3.1	3.9	4.3
62.5°	1.6	2.0	2.7	3.9	3.9
65°	1.6	2.0	2.7	3.9	3.9
67.5°	1.6	2.0	2.7	3.5	3.5
70°	1.6	2.0	2.4	3.1	3.1
72.5°	1.6	2.0	2.4	2.7	3.1
75°	1.2	1.6	2.0	2.4	2.7
77.5°	1.2	1.6	1.6	2.4	2.4
80°	1.2	1.2	1.2	1.6	1.6
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)