

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: P1346087

Luminaire Tested: P3A13R409830DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346087
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: P3A13R409830DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

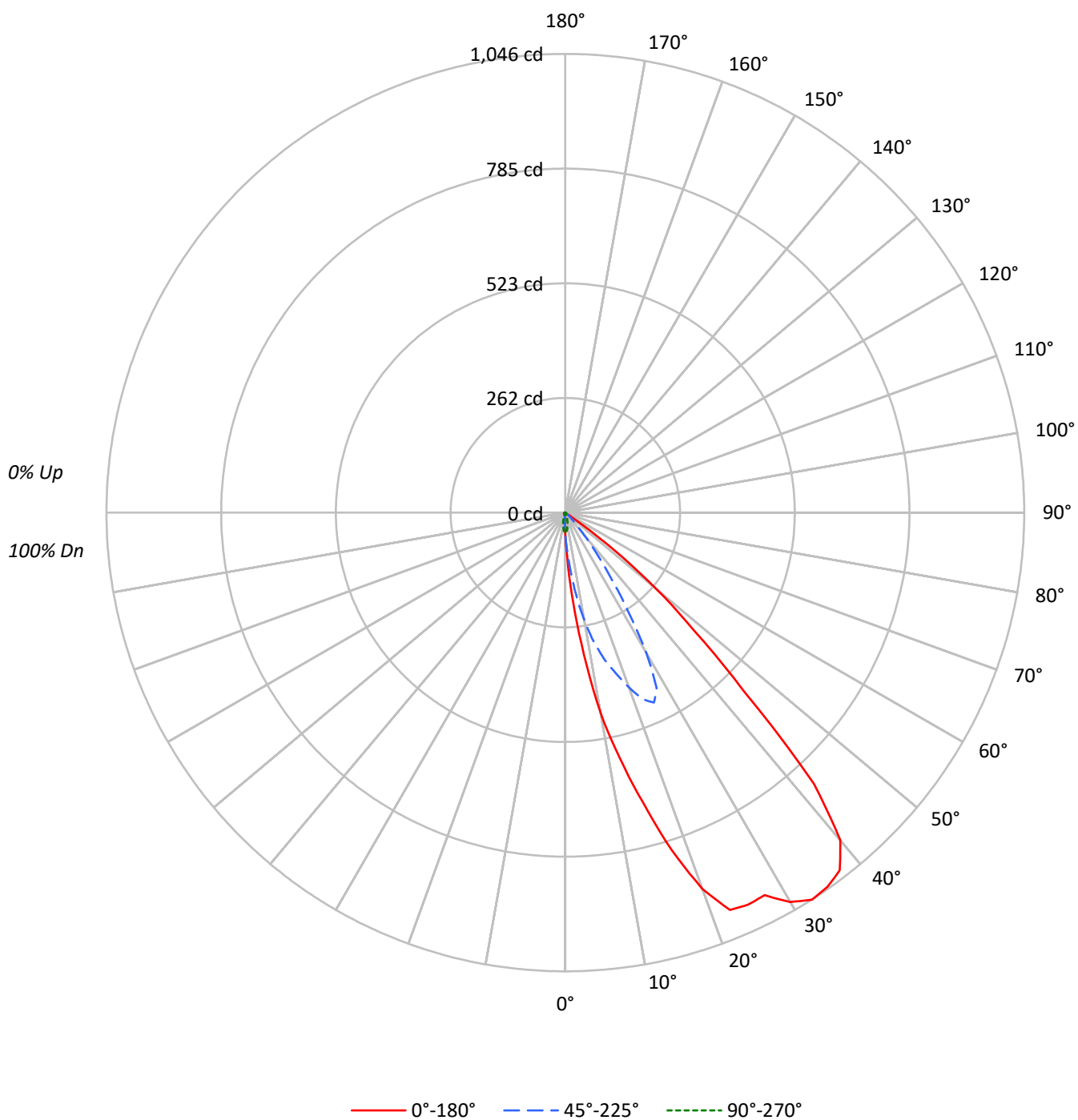
Lumens per Lamp: N/A
Luminaire Lumens: 386.0 lumens
Efficiency: N/A
Efficacy: 26.6 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1346087

CATALOG NUMBER: P3A13R409830DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1346087

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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	62	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	51	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°	10021	10021	10021	10021	10021
5°	45168	28791	8981	3456	2509
10°	103583	55644	6324	1225	935
15°	155461	78956	3927	658	590
20°	212865	98965	2287	373	467
25°	238611	115628	1186	315	387
30°	259534	93356	506	253	405
35°	278935	47783	187	348	535
40°	279037	19064	86	372	658
45°	178158	6388	217	620	899
50°	92483	785	341	785	1126
55°	7990	115	382	994	1376
60°	307	132	439	1140	1579
65°	363	156	675	1193	1712
70°	192	192	833	1282	1667
75°	254	254	847	1356	1949
80°	379	379	1263	1263	1642
85°	0	755	2516	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 178158 cd/sqm

TEST NUMBER: P1346087

CATALOG NUMBER: P3A13R409830DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	2.3
10°-20°	52.2	13.5
20°-30°	114.4	29.6
30°-40°	130.4	33.8
40°-50°	68.8	17.8
50°-60°	8.1	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°	175.6	45.5
0°-40°	305.9	79.2
0°-60°	382.8	99.2
0°-90°	386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	386.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	46	46	46	46	46	
5°	205	131	41	16	11	28
15°	685	348	17	3	3	202
25°	986	478	5	1	2	454
35°	1042	178	1	1	2	646
45°	574	21	1	2	3	463
55°	21	0	1	3	4	65
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	

TEST NUMBER: P1346087

CATALOG NUMBER: P3A13R409830DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
2.5°	101.8	101.8	101.5	98.5	98.2	97.9	92.7	91.3	85.1	80.9	61.7
5°	205.2	200.6	200.3	195.1	186.3	174.5	167.0	155.0	143.2	130.8	76.0
7.5°	326.9	330.8	320.0	314.5	294.9	280.9	259.4	240.4	214.0	189.2	87.8
10°	465.2	458.4	447.6	436.8	415.6	390.5	358.5	324.9	286.8	249.9	94.3
12.5°	573.2	564.4	557.9	543.2	522.3	490.0	451.8	406.8	356.3	303.1	94.0
15°	684.8	676.0	661.3	648.2	617.2	581.0	539.6	480.2	418.2	347.8	87.1
17.5°	807.4	796.0	779.7	759.8	729.8	689.7	637.1	564.7	477.0	384.3	74.7
20°	912.2	905.3	889.0	865.5	836.2	797.0	736.3	656.1	549.1	424.1	59.4
22.5°	980.7	974.5	963.4	942.8	920.7	878.9	823.4	735.3	609.4	460.3	45.0
25°	986.2	983.6	980.7	973.8	960.5	930.8	876.6	781.7	646.9	477.9	33.3
27.5°	983.3	982.3	981.7	978.1	969.3	939.9	884.4	788.5	642.0	450.5	24.5
30°	1025.0	1022.1	1020.5	1008.7	985.6	940.2	867.8	751.7	570.6	368.7	17.6
32.5°	1046.3	1045.6	1044.0	1032.6	999.9	940.9	839.7	662.6	452.5	266.2	12.1
35°	1042.0	1038.7	1032.9	1011.7	966.3	892.3	749.0	529.2	326.6	178.5	7.8
37.5°	1027.7	1020.2	1008.7	970.6	910.2	809.1	607.5	389.5	222.2	115.5	4.6
40°	974.8	964.7	946.7	900.1	820.8	666.8	449.2	263.3	145.8	66.6	1.3
42.5°	838.1	825.1	812.0	759.8	669.1	497.2	295.6	162.8	83.2	36.5	0.3
45°	574.5	558.2	540.3	502.4	429.7	301.1	175.8	91.7	43.1	20.6	0.3
47.5°	399.0	391.5	360.2	311.9	239.1	159.5	91.0	45.0	22.8	9.5	0.3
50°	271.1	262.6	226.1	179.4	127.2	76.3	41.8	22.5	10.1	2.3	0.3
52.5°	142.2	131.8	108.6	82.9	51.5	32.0	18.3	9.8	2.9	0.3	0.3
55°	20.9	19.2	15.7	12.7	11.4	8.8	5.2	2.3	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

TEST NUMBER: P1346087

CATALOG NUMBER: P3A13R409830DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	45.7	45.7	45.7	45.7	45.7
2.5°	45.0	33.3	25.8	22.2	21.9
5°	40.8	23.8	15.7	12.1	11.4
7.5°	34.6	16.6	9.1	6.5	6.2
10°	28.4	11.4	5.5	4.6	4.2
12.5°	22.5	7.5	3.9	3.6	3.3
15°	17.3	4.9	2.9	2.6	2.6
17.5°	13.0	3.3	2.3	2.3	2.3
20°	9.8	2.3	1.6	2.0	2.0
22.5°	6.9	1.6	1.3	1.6	1.6
25°	4.9	1.3	1.3	1.6	1.6
27.5°	3.3	1.0	1.0	1.3	1.6
30°	2.0	0.7	1.0	1.3	1.6
32.5°	1.0	0.7	1.0	1.6	1.6
35°	0.7	1.0	1.3	1.6	2.0
37.5°	0.3	1.0	1.3	2.0	2.0
40°	0.3	1.0	1.3	2.0	2.3
42.5°	0.7	1.3	1.6	2.3	2.6
45°	0.7	1.3	2.0	2.6	2.9
47.5°	0.7	1.3	2.3	2.9	2.9
50°	1.0	1.6	2.3	2.9	3.3
52.5°	1.0	1.6	2.3	3.3	3.6
55°	1.0	1.6	2.6	3.3	3.6
57.5°	1.0	2.0	2.6	3.3	3.6
60°	1.0	1.6	2.6	3.3	3.6
62.5°	1.3	1.6	2.3	3.3	3.3
65°	1.3	1.6	2.3	3.3	3.3
67.5°	1.3	1.6	2.3	2.9	2.9
70°	1.3	1.6	2.0	2.6	2.6
72.5°	1.3	1.6	2.0	2.3	2.6
75°	1.0	1.3	1.6	2.0	2.3
77.5°	1.0	1.3	1.3	2.0	2.0
80°	1.0	1.0	1.0	1.3	1.3
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)