

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: P1335737

Luminaire Tested: P3A02R409730DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335737
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: P3A02R409730DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

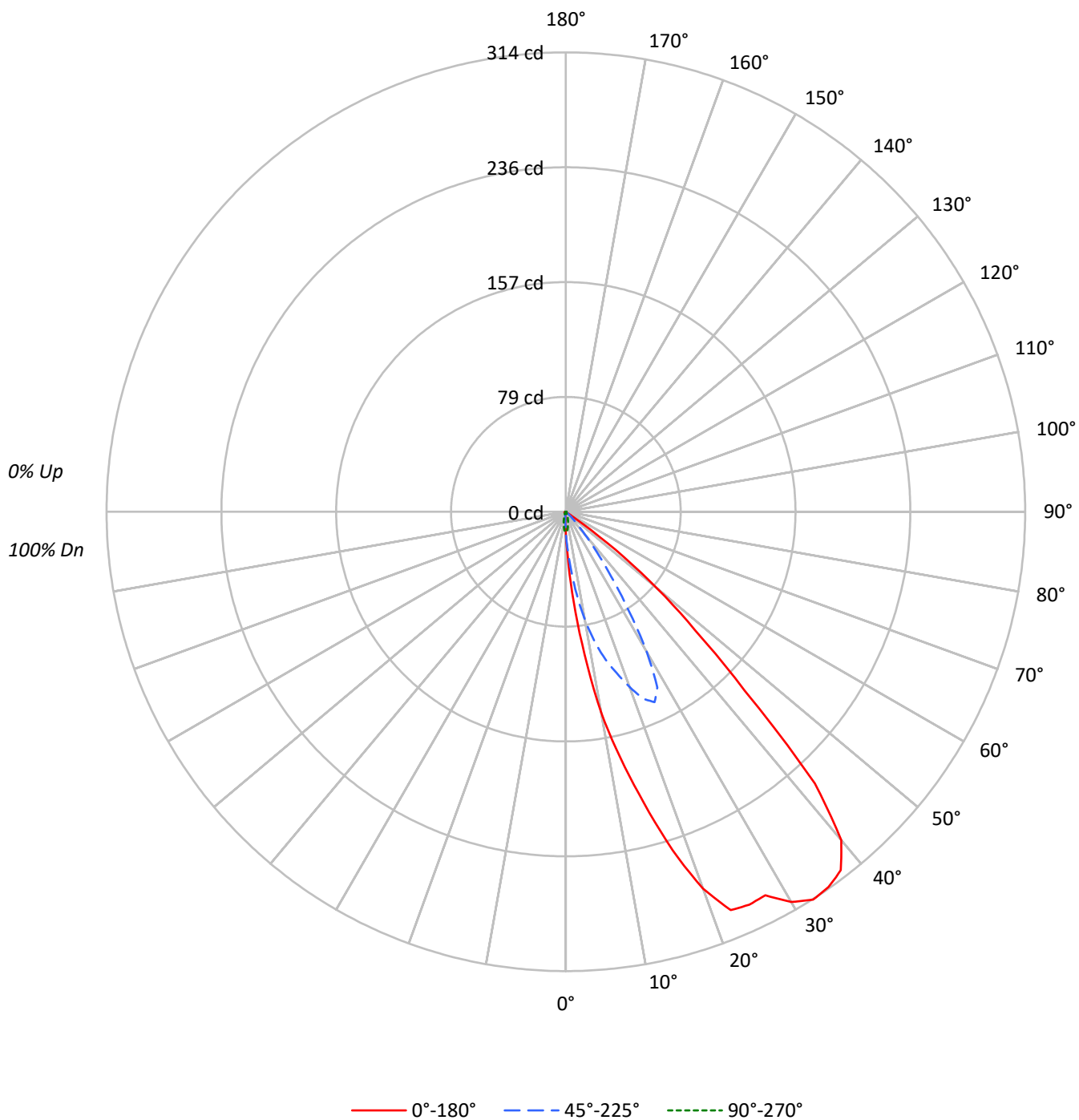
Lumens per Lamp: N/A
Luminaire Lumens: 116.0 lumens
Efficiency: N/A
Efficacy: 32.2 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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

TEST NUMBER: P1335737

CATALOG NUMBER: P3A02R409730DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1335737

CATALOG NUMBER: P3A02R409730DE010 E3A301GPH

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°	3004	3004	3004	3004	3004
5°	13581	8651	2707	1035	748
10°	31128	16722	1893	379	289
15°	46720	23723	1180	204	182
20°	63962	29753	677	117	140
25°	71714	34744	363	97	121
30°	77987	28055	152	76	127
35°	83814	14348	54	107	161
40°	83843	5725	29	115	200
45°	53556	1923	62	186	279
50°	27803	239	102	239	341
55°	2409	38	115	306	421
60°	88	44	132	351	482
65°	104	52	208	363	519
70°	64	64	256	385	513
75°	85	85	254	424	593
80°	126	126	379	379	505
85°	0	252	755	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 53556 cd/sqm

TEST NUMBER: P1335737

CATALOG NUMBER: P3A02R409730DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	2.3
10°-20°	15.7	13.5
20°-30°	34.4	29.6
30°-40°	39.2	33.8
40°-50°	20.7	17.8
50°-60°	2.4	2.1
60°-70°	0.4	0.4
70°-80°	0.4	0.3
80°-90°	0.2	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°	52.8	45.5
0°-40°	91.9	79.2
0°-60°	115.1	99.2
0°-90°	116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	116.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	62	39	12	5	3	8
15°	206	104	5	1	1	61
25°	296	144	2	0	0	137
35°	313	54	0	0	1	194
45°	173	6	0	1	1	139
55°	6	0	0	1	1	19
65°	0	0	0	1	1	0
75°	0	0	0	0	1	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1335737

CATALOG NUMBER: P3A02R409730DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
2.5°	30.6	30.6	30.5	29.6	29.5	29.4	27.8	27.5	25.6	24.3	18.5
5°	61.7	60.3	60.2	58.6	56.0	52.5	50.2	46.6	43.0	39.3	22.8
7.5°	98.2	99.4	96.2	94.5	88.6	84.4	77.9	72.3	64.3	56.9	26.4
10°	139.8	137.7	134.5	131.3	124.9	117.4	107.7	97.6	86.2	75.1	28.3
12.5°	172.3	169.6	167.7	163.2	157.0	147.3	135.8	122.3	107.1	91.1	28.2
15°	205.8	203.1	198.7	194.8	185.5	174.6	162.2	144.3	125.7	104.5	26.2
17.5°	242.7	239.2	234.3	228.3	219.3	207.3	191.5	169.7	143.3	115.5	22.5
20°	274.1	272.1	267.2	260.1	251.3	239.5	221.3	197.2	165.0	127.5	17.8
22.5°	294.7	292.8	289.5	283.3	276.7	264.1	247.5	221.0	183.1	138.3	13.5
25°	296.4	295.6	294.7	292.7	288.6	279.7	263.4	234.9	194.4	143.6	10.0
27.5°	295.5	295.2	295.0	293.9	291.3	282.5	265.8	237.0	192.9	135.4	7.4
30°	308.0	307.2	306.7	303.1	296.2	282.6	260.8	225.9	171.5	110.8	5.3
32.5°	314.4	314.2	313.7	310.3	300.5	282.8	252.4	199.1	136.0	80.0	3.6
35°	313.1	312.2	310.4	304.0	290.4	268.1	225.1	159.0	98.1	53.6	2.4
37.5°	308.8	306.6	303.1	291.7	273.5	243.1	182.6	117.1	66.8	34.7	1.4
40°	292.9	289.9	284.5	270.5	246.7	200.4	135.0	79.1	43.8	20.0	0.4
42.5°	251.9	247.9	244.0	228.3	201.1	149.4	88.8	48.9	25.0	11.0	0.1
45°	172.7	167.7	162.4	151.0	129.1	90.5	52.8	27.5	12.9	6.2	0.1
47.5°	119.9	117.6	108.2	93.7	71.9	47.9	27.4	13.5	6.9	2.8	0.1
50°	81.5	78.9	67.9	53.9	38.2	22.9	12.5	6.8	3.0	0.7	0.1
52.5°	42.7	39.6	32.6	24.9	15.5	9.6	5.5	2.9	0.9	0.1	0.1
55°	6.3	5.8	4.7	3.8	3.4	2.6	1.6	0.7	0.1	0.1	0.2
57.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
67.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
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: P1335737

CATALOG NUMBER: P3A02R409730DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	13.7	13.7	13.7	13.7	13.7
2.5°	13.5	10.0	7.7	6.7	6.6
5°	12.3	7.2	4.7	3.6	3.4
7.5°	10.4	5.0	2.7	2.0	1.9
10°	8.5	3.4	1.7	1.4	1.3
12.5°	6.8	2.3	1.2	1.1	1.0
15°	5.2	1.5	0.9	0.8	0.8
17.5°	3.9	1.0	0.7	0.7	0.7
20°	2.9	0.7	0.5	0.6	0.6
22.5°	2.1	0.5	0.4	0.5	0.5
25°	1.5	0.4	0.4	0.5	0.5
27.5°	1.0	0.3	0.3	0.4	0.5
30°	0.6	0.2	0.3	0.4	0.5
32.5°	0.3	0.2	0.3	0.5	0.5
35°	0.2	0.3	0.4	0.5	0.6
37.5°	0.1	0.3	0.4	0.6	0.6
40°	0.1	0.3	0.4	0.6	0.7
42.5°	0.2	0.4	0.5	0.7	0.8
45°	0.2	0.4	0.6	0.8	0.9
47.5°	0.2	0.4	0.7	0.9	0.9
50°	0.3	0.5	0.7	0.9	1.0
52.5°	0.3	0.5	0.7	1.0	1.1
55°	0.3	0.5	0.8	1.0	1.1
57.5°	0.3	0.6	0.8	1.0	1.1
60°	0.3	0.5	0.8	1.0	1.1
62.5°	0.4	0.5	0.7	1.0	1.0
65°	0.4	0.5	0.7	1.0	1.0
67.5°	0.4	0.5	0.7	0.9	0.9
70°	0.4	0.5	0.6	0.8	0.8
72.5°	0.4	0.5	0.6	0.7	0.8
75°	0.3	0.4	0.5	0.6	0.7
77.5°	0.3	0.4	0.4	0.6	0.6
80°	0.3	0.3	0.3	0.4	0.4
82.5°	0.3	0.3	0.2	0.3	0.3
85°	0.3	0.2	0.2	0.2	0.2
87.5°	0.2	0.2	0.1	0.1	0.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)