

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: P1339032

Luminaire Tested: P3A05R409840DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339032
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: P3A05R409840DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

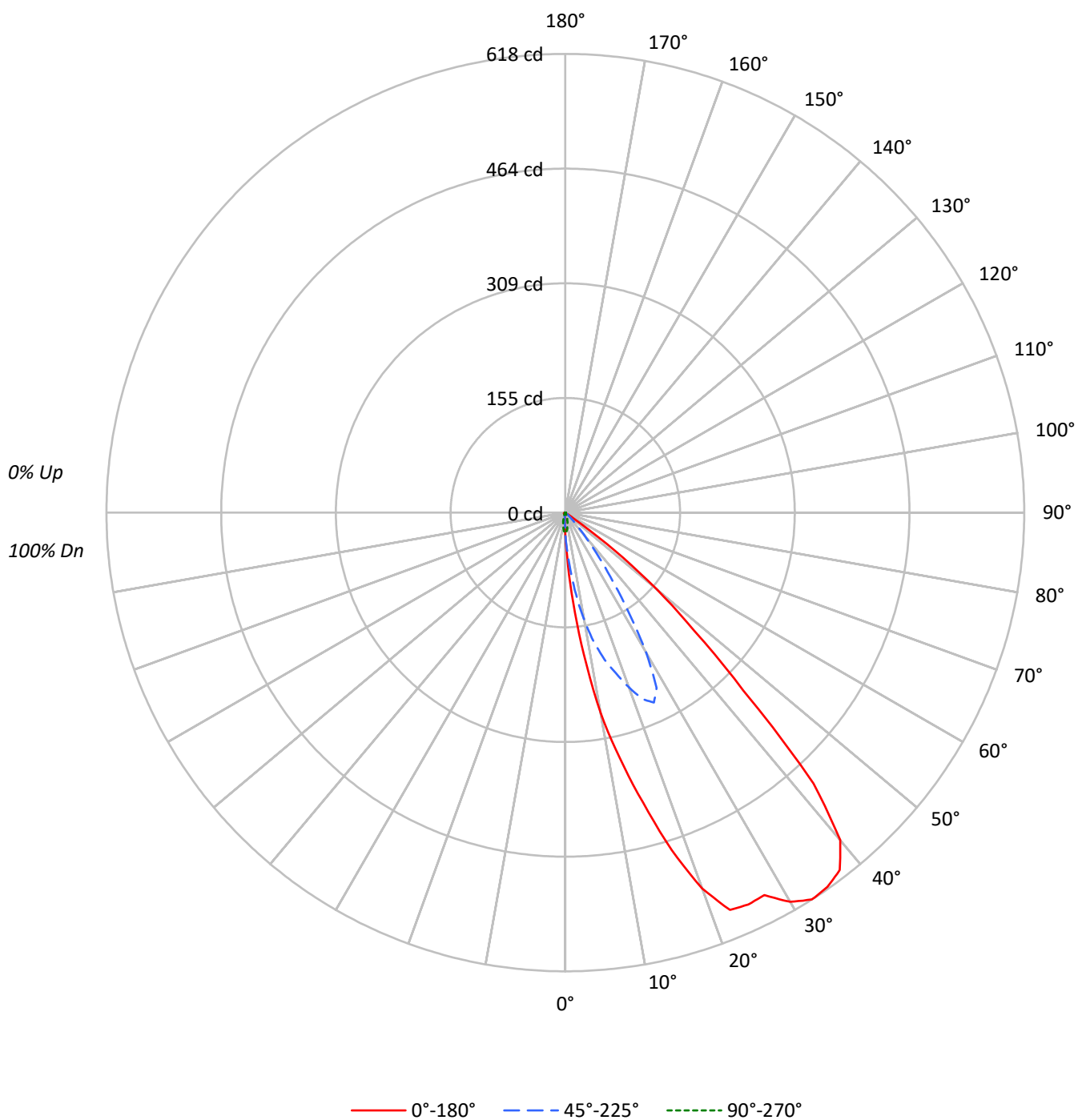
Lumens per Lamp: N/A
Luminaire Lumens: 228.0 lumens
Efficiency: N/A
Efficacy: 31.7 lumens/watt
Spacing Criteria (0/90/45): 2.52 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P1339032

CATALOG NUMBER: P3A05R409840DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1339032

CATALOG NUMBER: P3A05R409840DE010 E3A301WMH

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	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°	5921	5921	5921	5921	5921
5°	26678	17015	5305	2025	1475
10°	61188	32865	3741	735	557
15°	91828	46629	2316	386	341
20°	125731	58455	1353	233	280
25°	140936	68302	702	194	242
30°	153315	55148	304	152	253
35°	164765	28215	107	214	321
40°	164823	11250	57	229	372
45°	105220	3752	124	372	527
50°	54617	443	205	443	648
55°	4702	76	229	573	803
60°	175	88	263	658	921
65°	208	104	415	675	986
70°	128	128	513	769	962
75°	169	169	508	847	1101
80°	253	253	758	758	1010
85°	0	503	1510	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 105220 cd/sqm

TEST NUMBER: P1339032

CATALOG NUMBER: P3A05R409840DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	2.3
10°-20°	30.9	13.5
20°-30°	67.6	29.6
30°-40°	77.0	33.8
40°-50°	40.6	17.8
50°-60°	4.8	2.1
60°-70°	0.9	0.4
70°-80°	0.7	0.3
80°-90°	0.3	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°	103.7	45.5
0°-40°	180.7	79.2
0°-60°	226.1	99.2
0°-90°	228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	228.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27	27	27	27	27	
5°	121	77	24	9	7	16
15°	404	205	10	2	2	119
25°	582	282	3	1	1	268
35°	616	105	0	1	1	381
45°	339	12	0	1	2	274
55°	12	0	1	2	2	38
65°	0	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1339032

CATALOG NUMBER: P3A05R409840DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
2.5°	60.1	60.1	59.9	58.2	58.0	57.8	54.7	54.0	50.3	47.8	36.4
5°	121.2	118.5	118.3	115.2	110.0	103.1	98.7	91.5	84.6	77.3	44.9
7.5°	193.1	195.4	189.0	185.8	174.2	165.9	153.2	142.0	126.4	111.8	51.8
10°	274.8	270.7	264.4	258.0	245.5	230.7	211.8	191.9	169.4	147.6	55.7
12.5°	338.6	333.4	329.5	320.8	308.5	289.4	266.9	240.3	210.4	179.0	55.5
15°	404.5	399.3	390.6	382.9	364.6	343.2	318.7	283.7	247.0	205.4	51.5
17.5°	476.9	470.2	460.6	448.8	431.1	407.4	376.3	333.6	281.7	227.0	44.1
20°	538.8	534.7	525.1	511.2	493.9	470.8	434.9	387.5	324.3	250.5	35.1
22.5°	579.3	575.6	569.0	556.9	543.8	519.1	486.4	434.3	360.0	271.9	26.6
25°	582.5	581.0	579.3	575.2	567.3	549.8	517.8	461.7	382.1	282.3	19.7
27.5°	580.8	580.2	579.8	577.7	572.5	555.2	522.4	465.8	379.2	266.1	14.5
30°	605.5	603.7	602.8	595.8	582.2	555.4	512.6	444.0	337.0	217.8	10.4
32.5°	618.0	617.6	616.6	609.9	590.6	555.8	496.0	391.4	267.3	157.2	7.1
35°	615.5	613.6	610.1	597.6	570.8	527.0	442.4	312.6	192.9	105.4	4.6
37.5°	607.0	602.6	595.8	573.3	537.6	477.9	358.8	230.1	131.2	68.2	2.7
40°	575.8	569.8	559.2	531.7	484.8	393.9	265.4	155.5	86.1	39.3	0.8
42.5°	495.1	487.3	479.6	448.8	395.2	293.7	174.6	96.2	49.1	21.6	0.2
45°	339.3	329.7	319.1	296.8	253.8	177.9	103.9	54.1	25.4	12.1	0.2
47.5°	235.7	231.2	212.7	184.2	141.3	94.2	53.8	26.6	13.5	5.6	0.2
50°	160.1	155.1	133.5	106.0	75.2	45.1	24.7	13.3	6.0	1.3	0.2
52.5°	84.0	77.9	64.2	48.9	30.4	18.9	10.8	5.8	1.7	0.2	0.2
55°	12.3	11.4	9.2	7.5	6.7	5.2	3.1	1.3	0.2	0.2	0.4
57.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.4	0.2	0.2	0.2	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4
67.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4	0.6
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
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: P1339032

CATALOG NUMBER: P3A05R409840DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	27.0	27.0	27.0	27.0	27.0
2.5°	26.6	19.7	15.2	13.1	12.9
5°	24.1	14.1	9.2	7.1	6.7
7.5°	20.4	9.8	5.4	3.9	3.7
10°	16.8	6.7	3.3	2.7	2.5
12.5°	13.3	4.4	2.3	2.1	1.9
15°	10.2	2.9	1.7	1.5	1.5
17.5°	7.7	1.9	1.3	1.3	1.3
20°	5.8	1.3	1.0	1.2	1.2
22.5°	4.0	1.0	0.8	1.0	1.0
25°	2.9	0.8	0.8	1.0	1.0
27.5°	1.9	0.6	0.6	0.8	1.0
30°	1.2	0.4	0.6	0.8	1.0
32.5°	0.6	0.4	0.6	1.0	1.0
35°	0.4	0.6	0.8	1.0	1.2
37.5°	0.2	0.6	0.8	1.2	1.2
40°	0.2	0.6	0.8	1.2	1.3
42.5°	0.4	0.8	1.0	1.3	1.5
45°	0.4	0.8	1.2	1.5	1.7
47.5°	0.4	0.8	1.3	1.7	1.7
50°	0.6	1.0	1.3	1.7	1.9
52.5°	0.6	1.0	1.3	1.9	2.1
55°	0.6	1.0	1.5	1.9	2.1
57.5°	0.6	1.2	1.5	1.9	2.1
60°	0.6	1.0	1.5	1.9	2.1
62.5°	0.8	1.0	1.3	1.9	1.9
65°	0.8	1.0	1.3	1.9	1.9
67.5°	0.8	1.0	1.3	1.7	1.7
70°	0.8	1.0	1.2	1.5	1.5
72.5°	0.8	1.0	1.2	1.3	1.5
75°	0.6	0.8	1.0	1.2	1.3
77.5°	0.6	0.8	0.8	1.2	1.2
80°	0.6	0.6	0.6	0.8	0.8
82.5°	0.6	0.6	0.4	0.6	0.6
85°	0.6	0.4	0.4	0.4	0.4
87.5°	0.4	0.4	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)