

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: P1334383

Luminaire Tested: P3A02R209050DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R209050DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 5000K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

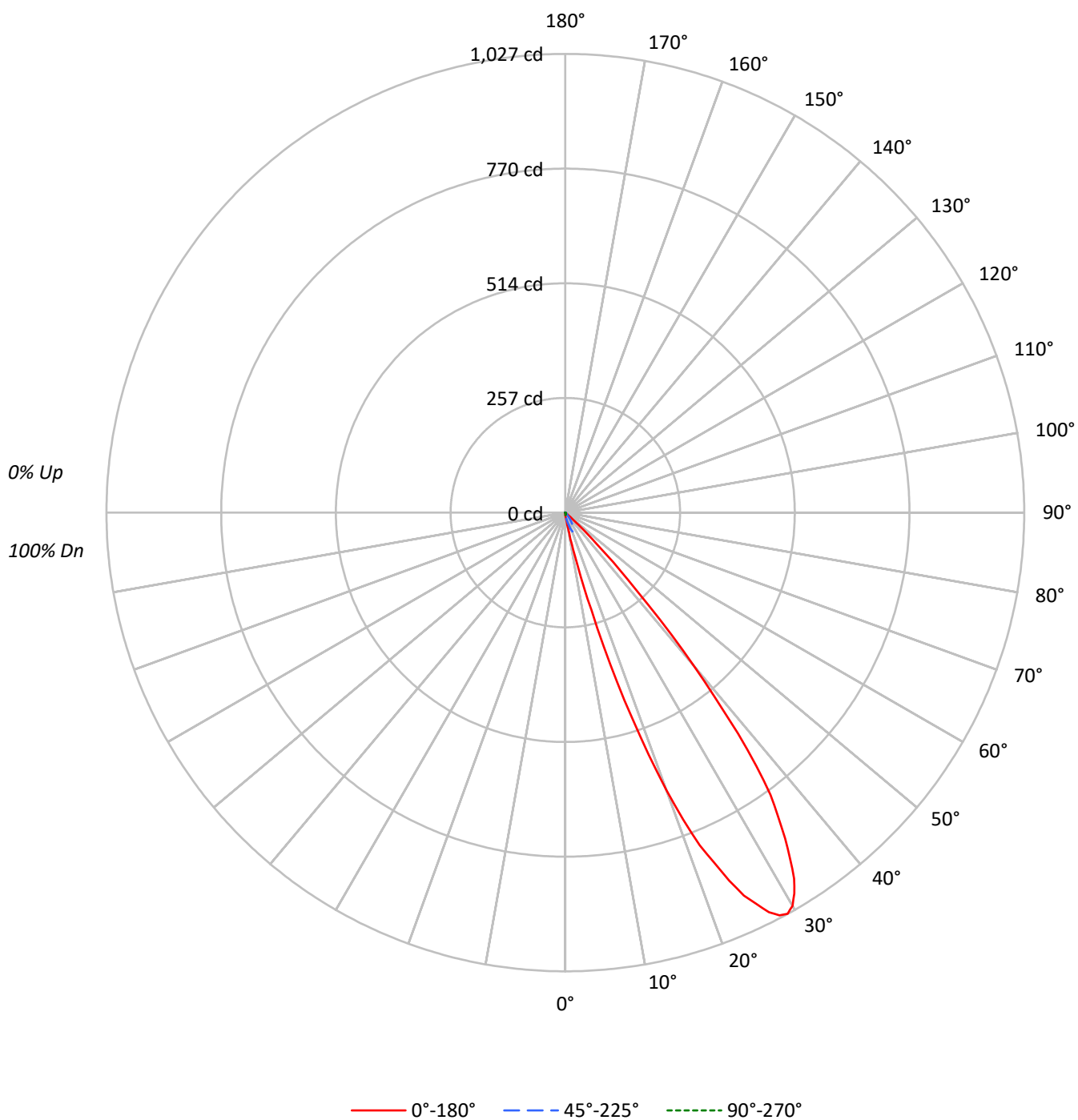
Lumens per Lamp: N/A
Luminaire Lumens: 144.0 lumens
Efficiency: N/A
Efficacy: 40.0 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1334383

CATALOG NUMBER: P3A02R209050DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1334383

CATALOG NUMBER: P3A02R209050DE010 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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1096	1096	1096	1096	1096
5°	2509	1871	1035	638	550
10°	7882	3251	846	356	267
15°	51079	6016	613	114	23
20°	154130	10314	420	0	0
25°	228908	10404	242	0	0
30°	257432	7900	101	0	0
35°	222104	4711	80	0	0
40°	127897	1603	0	0	0
45°	31197	651	31	0	31
50°	3753	171	34	34	136
55°	497	0	115	115	191
60°	44	0	175	175	307
65°	52	52	259	259	415
70°	64	64	321	321	449
75°	0	85	424	339	424
80°	0	126	505	379	505
85°	0	252	1006	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 31383 cd/sqm

TEST NUMBER: P1334383

CATALOG NUMBER: P3A02R209050DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.7	0.5
10°-20°	13.3	9.3
20°-30°	58.2	40.4
30°-40°	58.6	40.7
40°-50°	11.7	8.2
50°-60°	0.6	0.4
60°-70°	0.4	0.3
70°-80°	0.3	0.2
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°	72.2	50.1
0°-40°	130.8	90.8
0°-60°	143.1	99.4
0°-90°	144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	144.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5	5	5	5	5	
5°	11	8	5	3	2	2
15°	225	26	3	0	0	88
25°	946	43	1	0	0	427
35°	830	18	0	0	0	494
45°	101	2	0	0	0	110
55°	1	0	0	0	0	2
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1334383

CATALOG NUMBER: P3A02R209050DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
2.5°	7.4	7.4	7.3	7.3	7.2	7.3	7.1	7.2	7.2	7.1	6.4
5°	11.4	11.6	11.5	11.5	11.4	11.5	11.2	11.0	10.7	10.7	8.5
7.5°	18.7	18.6	18.3	18.4	18.0	17.8	17.5	17.4	16.6	16.2	11.1
10°	35.4	36.2	35.5	35.4	33.1	32.9	31.4	29.1	27.2	26.1	14.6
12.5°	97.5	101.6	95.1	92.0	90.1	83.1	80.1	72.4	64.9	59.3	18.6
15°	225.0	235.3	222.1	223.0	212.0	191.9	174.3	159.1	141.2	123.2	26.5
17.5°	440.8	432.4	425.2	413.1	390.8	361.2	323.2	284.7	251.4	216.5	37.0
20°	660.5	653.1	636.7	610.2	581.7	538.0	492.8	434.9	378.9	326.3	44.2
21°	736.2	733.7	706.9	690.6	646.7	604.9	552.7	490.8	427.7	365.5	45.3
22°	803.7	788.8	774.4	750.3	706.6	661.2	603.2	538.0	469.5	400.4	45.5
23°	850.5	843.7	830.1	802.8	759.4	706.0	644.8	576.7	504.5	425.1	45.1
24°	902.2	893.6	873.7	841.9	798.1	745.3	675.6	607.9	529.5	445.9	44.0
25°	946.1	932.7	909.1	874.8	827.0	772.5	702.3	628.0	546.9	459.9	43.0
26°	974.6	967.3	937.1	899.7	848.5	792.3	720.8	643.4	558.1	466.3	41.3
27°	1004.2	990.8	961.1	918.2	862.6	805.3	731.2	650.9	562.0	466.5	39.2
28°	1021.2	1006.6	973.0	927.8	871.8	812.5	737.2	653.2	561.2	462.5	36.7
29°	1026.6	1008.2	975.4	929.4	874.0	813.0	736.3	649.8	554.3	452.5	33.8
30°	1016.7	997.8	966.8	921.9	866.9	806.5	727.8	638.6	542.0	438.3	31.2
31°	995.0	979.0	949.0	904.0	851.3	791.2	708.6	620.2	521.1	419.2	28.2
32°	966.4	950.7	921.2	880.5	826.8	766.2	682.3	591.4	496.6	390.8	25.2
33°	923.4	914.4	887.8	849.0	795.3	730.6	647.1	557.1	461.6	359.1	22.6
34°	879.9	868.5	850.0	807.5	749.8	685.1	601.1	509.6	418.8	323.7	20.1
35°	829.7	822.9	793.8	759.8	701.8	635.7	552.2	463.5	369.1	284.3	17.6
36°	781.1	770.7	737.5	701.5	645.2	573.8	491.3	408.0	326.1	247.3	15.0
37°	710.6	694.6	671.0	633.1	567.2	506.4	431.1	353.8	273.2	207.3	12.1
38°	627.6	620.2	587.4	549.2	494.7	437.0	362.5	296.9	225.4	173.1	9.3
39°	529.8	529.6	498.3	470.7	417.4	365.4	298.3	241.0	186.0	139.4	7.2
40°	446.8	431.4	412.0	377.4	336.5	292.4	233.6	188.6	144.4	112.4	5.6
42.5°	234.2	232.9	221.6	195.6	172.7	146.7	116.7	97.2	76.0	61.9	3.5
45°	100.6	101.2	93.4	89.5	80.6	69.8	58.9	49.1	42.1	34.1	2.1
47.5°	25.5	24.4	24.2	25.1	25.1	24.3	21.8	20.5	18.9	17.4	1.2
50°	11.0	10.7	10.5	10.5	9.8	9.4	8.8	8.0	7.3	6.5	0.5
52.5°	4.0	4.2	4.3	4.2	4.2	4.0	4.0	3.9	3.5	3.1	0.3
55°	1.3	1.3	1.3	1.4	1.4	1.6	1.6	1.6	1.6	1.4	0.0
57.5°	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.0
60°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
62.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
65°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
67.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1



TEST NUMBER: P1334383

CATALOG NUMBER: P3A02R209050DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
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: P1334383

CATALOG NUMBER: P3A02R209050DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	5.0	5.0	5.0	5.0	5.0	5.0
2.5°	5.7	5.1	4.3	3.7	3.5	3.4
5°	6.4	4.7	3.5	2.9	2.6	2.5
7.5°	6.9	4.3	2.9	2.1	1.8	1.7
10°	7.2	3.8	2.4	1.6	1.2	1.2
12.5°	7.3	3.3	1.7	1.0	0.7	0.7
15°	7.2	2.7	1.3	0.5	0.1	0.1
17.5°	6.5	2.2	0.8	0.1	0.0	0.0
20°	5.6	1.8	0.5	0.0	0.0	0.0
21°	5.4	1.6	0.4	0.0	0.0	0.0
22°	5.0	1.4	0.3	0.0	0.0	0.0
23°	4.6	1.3	0.3	0.0	0.0	0.0
24°	4.2	1.2	0.1	0.0	0.0	0.0
25°	3.9	1.0	0.1	0.0	0.0	0.0
26°	3.7	0.9	0.1	0.0	0.0	0.0
27°	3.3	0.8	0.0	0.0	0.0	0.0
28°	3.0	0.7	0.0	0.0	0.0	0.0
29°	2.6	0.5	0.0	0.0	0.0	0.0
30°	2.2	0.4	0.0	0.0	0.0	0.0
31°	1.8	0.4	0.0	0.0	0.0	0.0
32°	1.6	0.3	0.0	0.0	0.0	0.0
33°	1.3	0.3	0.0	0.0	0.0	0.0
34°	1.2	0.3	0.0	0.0	0.0	0.0
35°	1.0	0.3	0.0	0.0	0.0	0.0
36°	0.8	0.1	0.0	0.0	0.0	0.0
37°	0.7	0.1	0.0	0.0	0.0	0.0
38°	0.5	0.1	0.0	0.0	0.0	0.0
39°	0.4	0.0	0.0	0.0	0.0	0.0
40°	0.4	0.0	0.0	0.0	0.0	0.0
42.5°	0.1	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.1	0.0	0.0	0.1	0.1
47.5°	0.0	0.1	0.0	0.0	0.1	0.3
50°	0.0	0.1	0.1	0.1	0.3	0.4
52.5°	0.0	0.3	0.1	0.1	0.4	0.4
55°	0.1	0.3	0.1	0.3	0.5	0.5
57.5°	0.1	0.3	0.3	0.4	0.5	0.7
60°	0.3	0.4	0.4	0.4	0.7	0.7
62.5°	0.3	0.4	0.5	0.5	0.7	0.8
65°	0.3	0.5	0.5	0.5	0.7	0.8
67.5°	0.4	0.5	0.5	0.5	0.7	0.8
70°	0.4	0.5	0.5	0.5	0.7	0.7
72.5°	0.4	0.5	0.4	0.5	0.5	0.7
75°	0.4	0.5	0.4	0.4	0.5	0.5
77.5°	0.3	0.4	0.4	0.3	0.4	0.4
80°	0.3	0.4	0.3	0.3	0.4	0.4



TEST NUMBER: P1334383

CATALOG NUMBER: P3A02R209050DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.3	0.4	0.3	0.1	0.3	0.3
85°	0.3	0.4	0.3	0.1	0.1	0.1
87.5°	0.3	0.4	0.3	0.1	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)