

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: P1335333

Luminaire Tested: P3A02R359030DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R359030DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

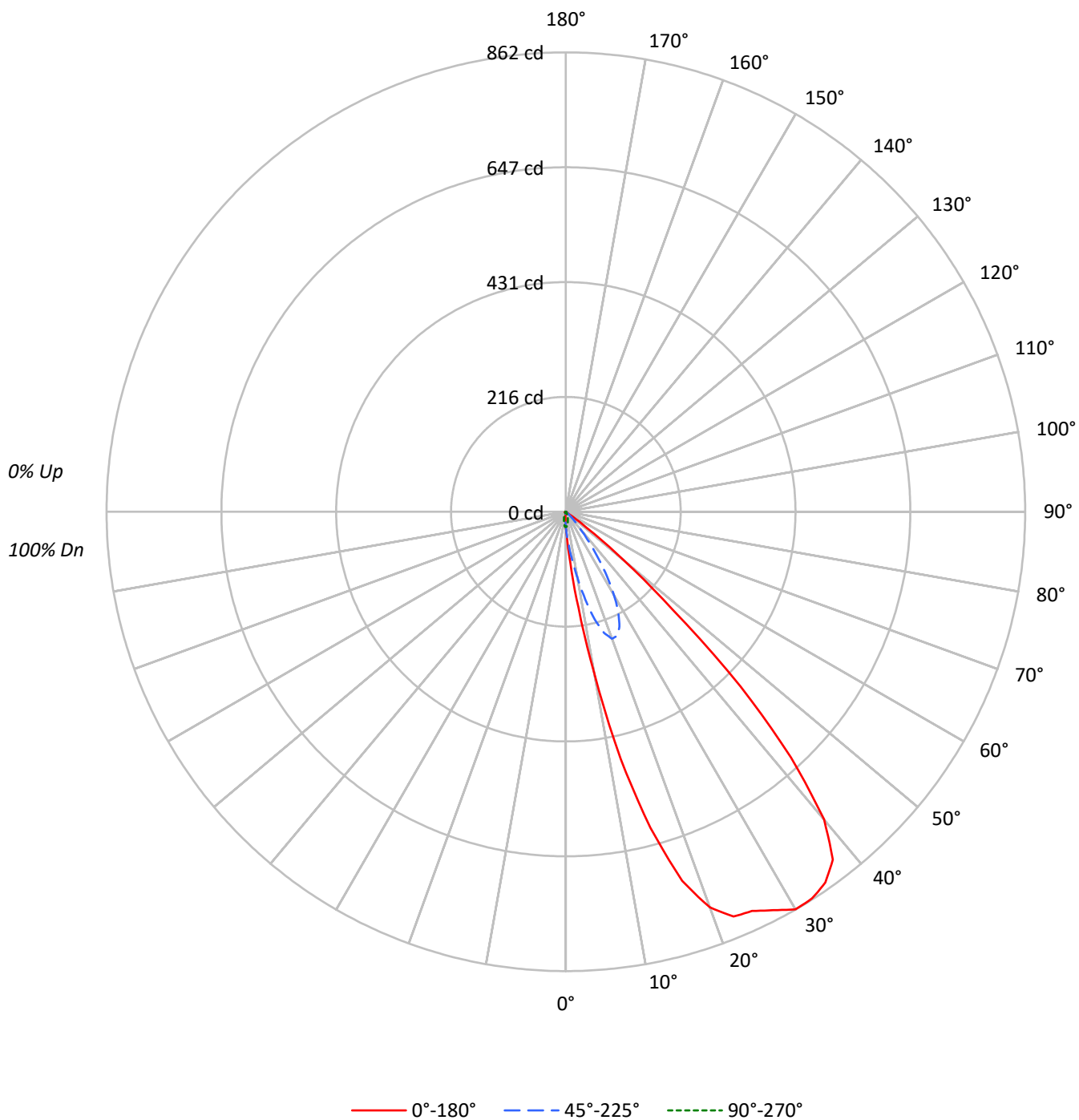
Lumens per Lamp: N/A
Luminaire Lumens: 270.9 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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	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	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83		
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	74		
4	92	83	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	67		
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41		
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6249	6249	6249	6249	6249
5°	21263	13823	5833	2465	1827
10°	68402	28011	4609	913	601
15°	139388	47492	3269	341	227
20°	184326	59155	2100	117	117
25°	199995	57511	1186	48	121
30°	218185	45830	481	51	127
35°	227324	28536	134	54	134
40°	215718	12452	57	143	200
45°	144015	4993	62	217	372
50°	48305	819	171	341	512
55°	2714	76	191	459	650
60°	219	88	307	526	746
65°	259	104	363	623	882
70°	128	128	449	769	962
75°	169	169	593	847	1017
80°	0	253	884	884	884
85°	0	503	1761	503	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 144015 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	1.8
10°-20°	38.9	14.4
20°-30°	82.1	30.3
30°-40°	93.2	34.4
40°-50°	45.9	16.9
50°-60°	4.0	1.5
60°-70°	0.8	0.3
70°-80°	0.7	0.3
80°-90°	0.4	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°	126.0	46.5
0°-40°	219.2	80.9
0°-60°	269.1	99.3
0°-90°	270.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	270.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	97	63	26	11	8	16
15°	614	209	14	2	1	175
25°	827	238	5	0	0	385
35°	849	107	0	0	0	523
45°	464	16	0	1	1	343
55°	7	0	0	1	2	28
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	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
2.5°	49.4	50.6	50.1	49.9	49.6	48.7	46.5	46.2	44.0	42.6	35.3
5°	96.6	94.6	95.1	92.4	89.0	84.2	81.0	74.2	68.6	62.8	41.1
7.5°	182.0	179.3	174.2	166.4	158.4	147.9	132.1	119.4	104.8	91.0	45.7
10°	307.2	305.8	299.2	279.3	261.8	233.8	207.5	179.8	152.5	125.8	48.9
12.5°	474.6	464.6	452.7	426.2	391.7	356.6	304.8	256.9	213.3	168.6	49.1
15°	614.0	607.7	590.9	556.4	514.8	464.2	402.6	338.1	272.5	209.2	46.7
17.5°	726.2	716.4	694.8	661.0	613.0	547.3	475.3	396.8	316.7	238.2	42.6
20°	789.9	784.8	768.2	734.4	682.1	610.4	528.4	436.9	344.5	253.5	37.2
22.5°	822.0	818.3	806.2	779.2	730.3	658.0	564.1	457.8	352.5	251.8	31.6
25°	826.6	825.6	815.2	794.8	753.9	682.4	579.7	461.7	345.9	237.7	26.3
27.5°	842.7	839.3	826.9	806.4	765.3	686.5	574.4	448.3	324.8	212.9	21.9
30°	861.7	859.2	846.8	825.6	777.0	682.6	555.4	418.7	290.9	181.0	16.3
32.5°	860.2	859.2	848.8	826.4	768.7	659.7	521.6	374.1	245.0	142.8	10.2
35°	849.2	845.8	832.7	798.2	721.5	600.9	457.3	313.8	193.9	106.6	6.6
37.5°	823.0	815.7	793.5	734.9	637.1	510.1	372.4	242.3	137.2	71.3	4.1
40°	753.6	744.4	699.9	629.1	526.7	401.9	277.1	166.6	90.5	43.5	1.7
42.5°	625.2	606.5	561.9	489.2	393.1	284.1	182.0	108.0	53.3	26.3	0.5
45°	464.4	450.0	403.3	337.4	257.6	182.2	110.2	58.4	29.4	16.1	0.2
47.5°	270.5	261.8	237.7	194.4	142.3	95.6	56.4	31.4	17.3	7.8	0.2
50°	141.6	130.6	112.4	85.1	62.8	44.0	27.5	16.8	8.5	2.4	0.2
52.5°	49.6	48.9	44.5	33.6	27.2	19.7	13.4	7.3	2.4	0.5	0.2
55°	7.1	7.1	6.6	7.3	7.8	7.1	4.6	1.9	0.5	0.2	0.2
57.5°	0.5	0.5	0.5	0.7	1.0	1.0	0.7	0.2	0.2	0.2	0.5
60°	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
62.5°	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
65°	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
77.5°	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.5
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°	28.5	28.5	28.5	28.5	28.5
2.5°	28.2	22.6	18.0	15.8	15.1
5°	26.5	17.0	11.2	8.8	8.3
7.5°	23.6	12.2	6.8	4.9	4.6
10°	20.7	8.8	4.1	2.9	2.7
12.5°	17.3	6.1	2.7	1.7	1.5
15°	14.4	4.1	1.5	1.2	1.0
17.5°	11.4	2.7	1.0	0.7	1.0
20°	9.0	1.7	0.5	0.5	0.5
22.5°	6.8	1.0	0.5	0.5	0.5
25°	4.9	0.5	0.2	0.2	0.5
27.5°	3.4	0.2	0.2	0.2	0.5
30°	1.9	0.2	0.2	0.2	0.5
32.5°	1.0	0.2	0.2	0.5	0.5
35°	0.5	0.2	0.2	0.5	0.5
37.5°	0.2	0.2	0.2	0.5	0.7
40°	0.2	0.2	0.5	0.7	0.7
42.5°	0.2	0.2	0.5	0.7	1.0
45°	0.2	0.5	0.7	1.0	1.2
47.5°	0.5	0.5	1.0	1.2	1.5
50°	0.5	0.7	1.0	1.5	1.5
52.5°	0.5	0.7	1.2	1.5	1.7
55°	0.5	1.0	1.2	1.7	1.7
57.5°	0.7	1.0	1.2	1.7	1.7
60°	0.7	1.0	1.2	1.7	1.7
62.5°	0.7	1.0	1.2	1.7	1.7
65°	0.7	1.0	1.2	1.7	1.7
67.5°	0.7	1.0	1.2	1.5	1.7
70°	0.7	1.0	1.2	1.5	1.5
72.5°	1.0	1.0	1.2	1.5	1.5
75°	0.7	1.0	1.0	1.2	1.2
77.5°	0.7	0.7	0.7	1.0	1.0
80°	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.5	0.5	0.7	0.7
85°	0.7	0.5	0.2	0.5	0.5
87.5°	0.5	0.5	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)