

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: P1338991

Luminaire Tested: P3A05R409827DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338991
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: P3A05R409827DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

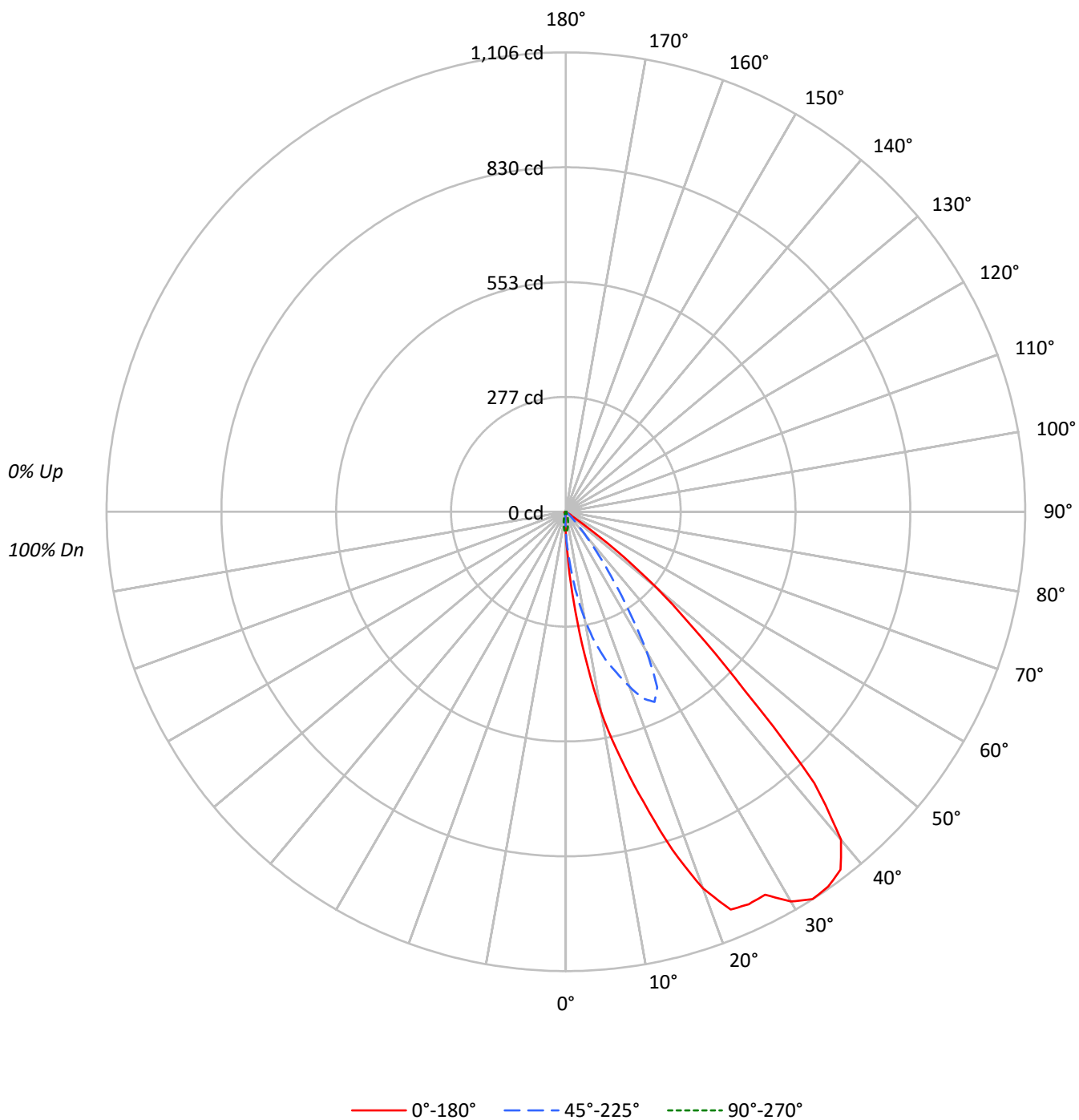
Lumens per Lamp: N/A
Luminaire Lumens: 407.9 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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
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	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	56	52	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°	10591	10591	10591	10591	10591
5°	47744	30442	9487	3654	2663
10°	109484	58805	6680	1314	1002
15°	164314	83451	4154	704	636
20°	225000	104612	2404	397	490
25°	252208	122233	1258	339	411
30°	274346	98673	532	253	430
35°	294836	50487	187	375	562
40°	294953	20123	86	401	687
45°	188330	6729	217	651	961
50°	97771	819	341	819	1160
55°	8449	115	382	1070	1453
60°	307	132	439	1228	1667
65°	363	156	726	1245	1764
70°	192	192	898	1346	1795
75°	254	254	847	1440	2033
80°	379	379	1263	1263	1768
85°	0	755	2516	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 188330 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	2.3
10°-20°	55.2	13.5
20°-30°	120.9	29.6
30°-40°	137.8	33.8
40°-50°	72.7	17.8
50°-60°	8.6	2.1
60°-70°	1.5	0.4
70°-80°	1.3	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°	185.6	45.5
0°-40°	323.3	79.3
0°-60°	404.6	99.2
0°-90°	407.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	407.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	217	138	43	17	12	29
15°	724	368	18	3	3	213
25°	1042	505	5	1	2	480
35°	1101	189	1	1	2	683
45°	607	22	1	2	3	490
55°	22	0	1	3	4	69
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	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
2.5°	107.6	107.6	107.2	104.1	103.8	103.5	97.9	96.6	90.0	85.5	65.2
5°	216.9	212.1	211.7	206.2	196.9	184.5	176.6	163.8	151.4	138.3	80.3
7.5°	345.5	349.7	338.3	332.4	311.7	296.9	274.1	254.1	226.2	200.0	92.8
10°	491.7	484.5	473.1	461.7	439.3	412.8	379.0	343.5	303.1	264.1	99.7
12.5°	605.9	596.6	589.7	574.1	552.1	517.9	477.6	430.0	376.6	320.4	99.3
15°	723.8	714.5	699.0	685.2	652.4	614.1	570.4	507.6	442.1	367.6	92.1
17.5°	853.5	841.4	824.2	803.1	771.4	729.0	673.5	596.9	504.1	406.2	79.0
20°	964.2	956.9	939.7	914.8	883.8	842.4	778.3	693.5	580.4	448.3	62.8
22.5°	1036.6	1030.0	1018.3	996.6	973.1	929.0	870.4	777.3	644.2	486.6	47.6
25°	1042.4	1039.7	1036.6	1029.3	1015.2	983.8	926.6	826.2	683.8	505.2	35.2
27.5°	1039.3	1038.3	1037.6	1033.8	1024.5	993.5	934.8	833.5	678.6	476.2	25.9
30°	1083.5	1080.4	1078.6	1066.2	1041.7	993.8	917.3	794.5	603.1	389.7	18.6
32.5°	1105.9	1105.2	1103.5	1091.4	1056.9	994.5	887.6	700.4	478.3	281.4	12.8
35°	1101.4	1098.0	1091.7	1069.3	1021.4	943.1	791.7	559.3	345.2	188.6	8.3
37.5°	1086.2	1078.3	1066.2	1025.9	962.1	855.2	642.1	411.7	234.8	122.1	4.8
40°	1030.4	1019.7	1000.7	951.4	867.6	704.8	474.8	278.3	154.1	70.3	1.4
42.5°	885.9	872.1	858.3	803.1	707.3	525.5	312.4	172.1	87.9	38.6	0.3
45°	607.3	590.0	571.0	531.0	454.1	318.3	185.9	96.9	45.5	21.7	0.3
47.5°	421.7	413.8	380.7	329.7	252.8	168.6	96.2	47.6	24.1	10.0	0.3
50°	286.6	277.6	239.0	189.7	134.5	80.7	44.1	23.8	10.7	2.4	0.3
52.5°	150.3	139.3	114.8	87.6	54.5	33.8	19.3	10.3	3.1	0.3	0.3
55°	22.1	20.3	16.6	13.4	12.1	9.3	5.5	2.4	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

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CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	48.3	48.3	48.3	48.3	48.3
2.5°	47.6	35.2	27.2	23.4	23.1
5°	43.1	25.2	16.6	12.8	12.1
7.5°	36.6	17.6	9.7	6.9	6.6
10°	30.0	12.1	5.9	4.8	4.5
12.5°	23.8	7.9	4.1	3.8	3.4
15°	18.3	5.2	3.1	2.8	2.8
17.5°	13.8	3.4	2.4	2.4	2.4
20°	10.3	2.4	1.7	2.1	2.1
22.5°	7.2	1.7	1.4	1.7	1.7
25°	5.2	1.4	1.4	1.7	1.7
27.5°	3.4	1.0	1.0	1.4	1.7
30°	2.1	0.7	1.0	1.4	1.7
32.5°	1.0	0.7	1.0	1.7	1.7
35°	0.7	1.0	1.4	1.7	2.1
37.5°	0.3	1.0	1.4	2.1	2.1
40°	0.3	1.0	1.4	2.1	2.4
42.5°	0.7	1.4	1.7	2.4	2.8
45°	0.7	1.4	2.1	2.8	3.1
47.5°	0.7	1.4	2.4	3.1	3.1
50°	1.0	1.7	2.4	3.1	3.4
52.5°	1.0	1.7	2.4	3.4	3.8
55°	1.0	1.7	2.8	3.4	3.8
57.5°	1.0	2.1	2.8	3.4	3.8
60°	1.0	1.7	2.8	3.4	3.8
62.5°	1.4	1.7	2.4	3.4	3.4
65°	1.4	1.7	2.4	3.4	3.4
67.5°	1.4	1.7	2.4	3.1	3.1
70°	1.4	1.7	2.1	2.8	2.8
72.5°	1.4	1.7	2.1	2.4	2.8
75°	1.0	1.4	1.7	2.1	2.4
77.5°	1.0	1.4	1.4	2.1	2.1
80°	1.0	1.0	1.0	1.4	1.4
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)