

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: P1339519

Luminaire Tested: P3A05R459830DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R459830DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

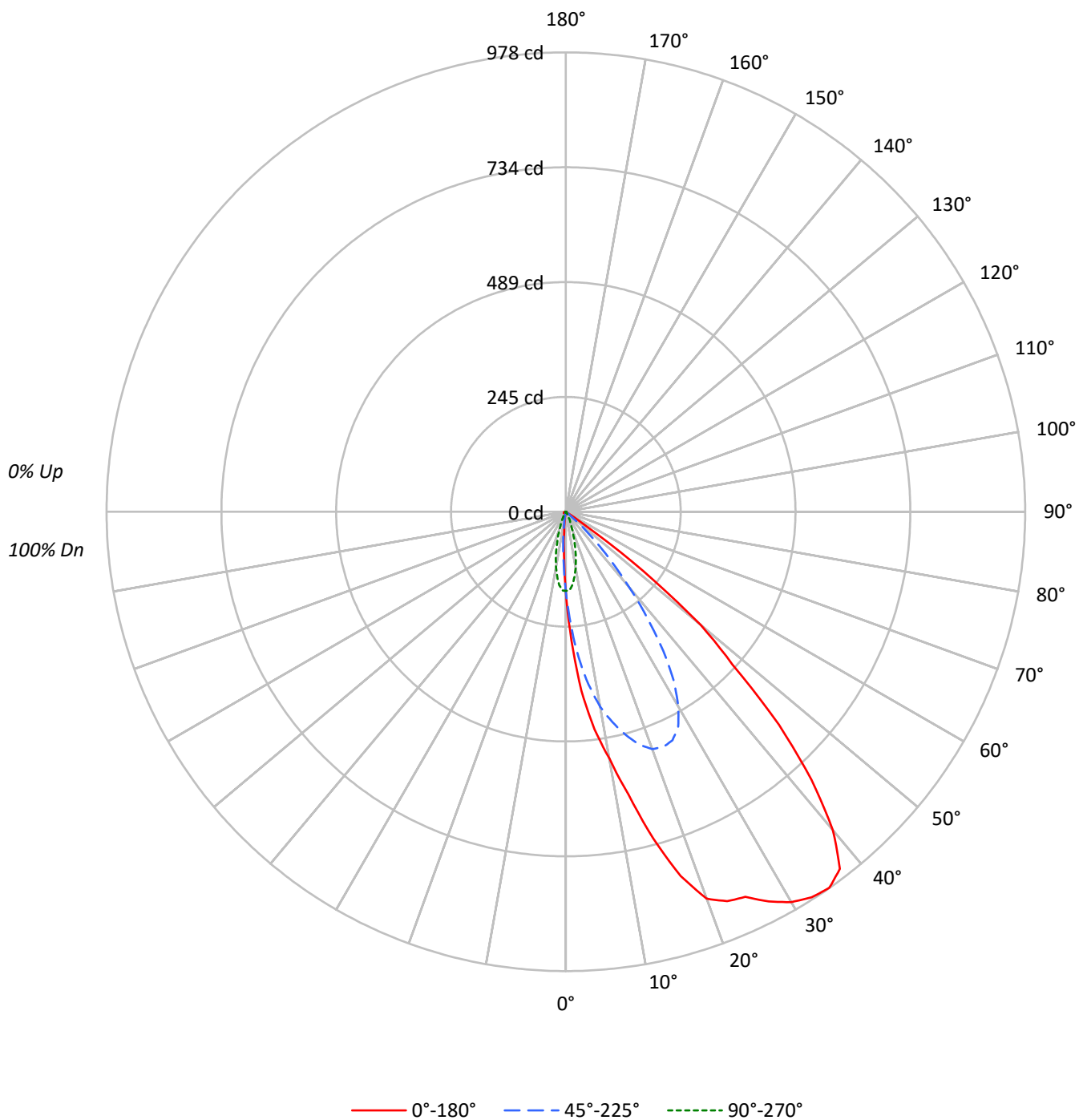
Lumens per Lamp: N/A
Luminaire Lumens: 443.0 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	93	90	95	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	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	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	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	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	36971	36971	36971	36971	36971
5°	84239	68347	34581	13867	9465
10°	118702	93875	26720	3050	1403
15°	163588	111692	17072	999	840
20°	204558	125451	8914	700	700
25°	218892	129878	4113	532	629
30°	242974	121284	1874	557	658
35°	261723	96690	589	589	803
40°	253246	59912	315	744	945
45°	198873	28251	341	930	1147
50°	127791	3275	512	1126	1501
55°	19421	268	573	1415	1835
60°	307	307	658	1623	1930
65°	363	363	778	1712	2283
70°	449	449	962	1923	2629
75°	339	593	1271	2203	2796
80°	505	884	1389	2399	3283
85°	0	1006	1761	2768	2768

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 198873 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.4	4.2
10°-20°	66.7	15.1
20°-30°	117.2	26.5
30°-40°	133.1	30.0
40°-50°	86.2	19.5
50°-60°	16.9	3.8
60°-70°	2.0	0.5
70°-80°	1.7	0.4
80°-90°	0.8	0.2
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°	202.3	45.7
0°-40°	335.4	75.7
0°-60°	438.5	99.0
0°-90°	443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	443.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	169	169	169	169	169	
5°	383	310	157	63	43	41
15°	721	492	75	4	4	208
25°	905	537	17	2	3	424
35°	978	361	2	2	3	601
45°	641	91	1	3	4	483
55°	51	1	2	4	5	97
65°	1	1	2	3	4	1
75°	0	1	2	3	3	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°	50°
0°	168.6	168.6	168.6	168.6	168.6	168.6	168.6	168.6	168.6	168.6	168.6
2.5°	273.8	273.0	274.2	266.7	266.4	260.8	259.3	253.0	244.5	240.4	230.8
5°	382.7	379.0	379.0	370.1	367.1	360.9	350.1	336.8	325.7	310.5	294.2
7.5°	466.8	466.1	466.1	458.3	450.9	442.0	427.5	412.3	394.6	371.2	347.5
10°	533.1	534.2	530.9	523.9	513.1	503.5	486.4	467.9	446.1	421.6	390.1
12.5°	616.9	608.7	606.1	590.2	576.5	557.9	537.6	516.5	489.4	458.7	423.1
15°	720.6	710.2	699.8	678.7	655.8	627.2	595.4	564.2	529.4	492.0	447.5
17.5°	813.2	813.2	799.5	766.2	736.5	694.3	651.3	609.8	568.7	519.4	463.8
20°	876.6	873.2	862.9	838.4	804.7	756.9	701.0	642.8	593.1	537.6	473.1
22.5°	897.3	896.6	896.9	882.5	855.4	805.8	737.3	668.7	606.5	542.0	468.7
25°	904.7	906.2	909.9	904.4	884.0	834.3	759.5	681.0	610.6	536.8	451.6
27.5°	935.5	932.5	936.6	932.9	909.9	850.6	763.9	678.0	601.7	517.9	421.2
30°	959.6	958.8	965.9	962.5	932.5	861.0	759.9	666.9	579.8	479.0	373.4
32.5°	973.3	973.6	975.5	961.8	917.3	838.4	739.9	644.3	538.7	428.3	311.2
35°	977.7	975.5	965.1	931.4	870.6	786.2	690.6	590.6	482.7	361.2	246.0
37.5°	958.4	947.0	920.3	869.9	799.5	720.6	627.6	522.8	406.1	285.3	183.4
40°	884.7	869.5	835.8	784.3	718.7	642.4	547.2	437.5	314.9	209.3	128.9
42.5°	774.3	766.5	731.3	686.5	630.9	553.9	455.7	344.6	233.0	144.5	82.2
45°	641.3	631.3	609.1	569.4	525.7	445.0	353.4	246.7	158.9	91.1	40.8
47.5°	480.9	481.6	466.4	436.4	393.5	326.0	241.9	165.6	99.7	47.1	9.3
50°	374.6	369.4	347.9	317.1	267.1	217.1	156.3	104.5	52.6	9.6	0.7
52.5°	207.5	210.8	199.3	189.3	163.4	129.7	92.3	53.0	11.1	1.1	0.7
55°	50.8	53.7	51.5	52.6	54.5	48.5	37.4	10.4	1.1	0.7	0.7
57.5°	1.1	1.1	1.1	1.1	1.9	2.6	2.6	0.7	0.7	0.7	0.7
60°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
62.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.7
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.7
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7
82.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	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

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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	168.6	168.6	168.6	168.6	168.6	168.6	168.6	168.6
2.5°	226.0	219.0	206.0	167.5	134.5	108.6	93.0	91.5
5°	279.7	260.8	233.4	157.1	99.3	63.0	45.6	43.0
7.5°	322.3	295.6	253.4	140.0	67.8	32.2	17.8	14.8
10°	357.5	319.7	263.8	120.0	42.6	13.7	7.4	6.3
12.5°	381.6	336.0	265.6	97.8	24.5	6.7	4.8	4.4
15°	397.2	341.2	256.7	75.2	13.7	4.4	4.1	3.7
17.5°	403.5	336.8	239.7	54.5	7.4	3.3	3.3	3.3
20°	400.5	322.3	214.5	38.2	4.8	3.0	3.0	3.0
22.5°	386.4	297.5	183.0	25.6	3.3	2.6	2.6	2.6
25°	358.6	263.8	149.7	17.0	2.2	2.2	2.6	2.6
27.5°	317.1	222.3	114.5	11.5	1.9	2.2	2.6	2.6
30°	264.9	176.0	82.2	7.4	1.9	2.2	2.2	2.6
32.5°	210.4	128.2	54.1	4.4	1.5	2.2	2.6	3.0
35°	152.6	87.4	34.5	2.2	1.9	2.2	2.6	3.0
37.5°	107.1	57.1	20.0	1.5	1.9	2.2	3.0	3.0
40°	69.7	31.9	7.4	1.1	1.9	2.6	3.0	3.3
42.5°	36.3	11.1	1.5	1.1	1.9	2.6	3.3	3.7
45°	9.3	1.5	0.4	1.1	2.2	3.0	3.7	3.7
47.5°	1.1	0.4	0.4	1.5	2.2	3.3	3.7	4.1
50°	0.4	0.7	0.7	1.5	2.2	3.3	4.1	4.4
52.5°	0.7	0.7	0.7	1.5	2.6	3.3	4.4	4.8
55°	0.7	0.7	0.7	1.5	2.6	3.7	4.4	4.8
57.5°	0.7	0.7	0.7	1.5	2.6	3.7	4.4	4.4
60°	0.7	0.7	0.7	1.5	2.6	3.7	4.4	4.4
62.5°	0.7	0.7	1.1	1.5	2.6	3.3	4.4	4.4
65°	0.7	1.1	1.1	1.5	2.6	3.3	4.1	4.4
67.5°	0.7	0.7	1.1	1.5	2.6	3.3	4.1	4.4
70°	0.7	0.7	1.1	1.5	2.2	3.0	3.7	4.1
72.5°	0.7	0.7	1.1	1.5	2.2	3.0	3.3	3.7
75°	0.7	0.7	1.1	1.5	1.9	2.6	3.3	3.3
77.5°	0.7	0.7	1.1	1.1	1.9	2.2	3.0	3.0
80°	0.7	0.7	1.1	1.1	1.5	1.9	2.2	2.6
82.5°	0.7	0.7	0.7	1.1	1.1	1.5	1.9	1.9
85°	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.1
87.5°	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)