

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: P1339535

Luminaire Tested: P3A05R459835DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339535
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: P3A05R459835DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

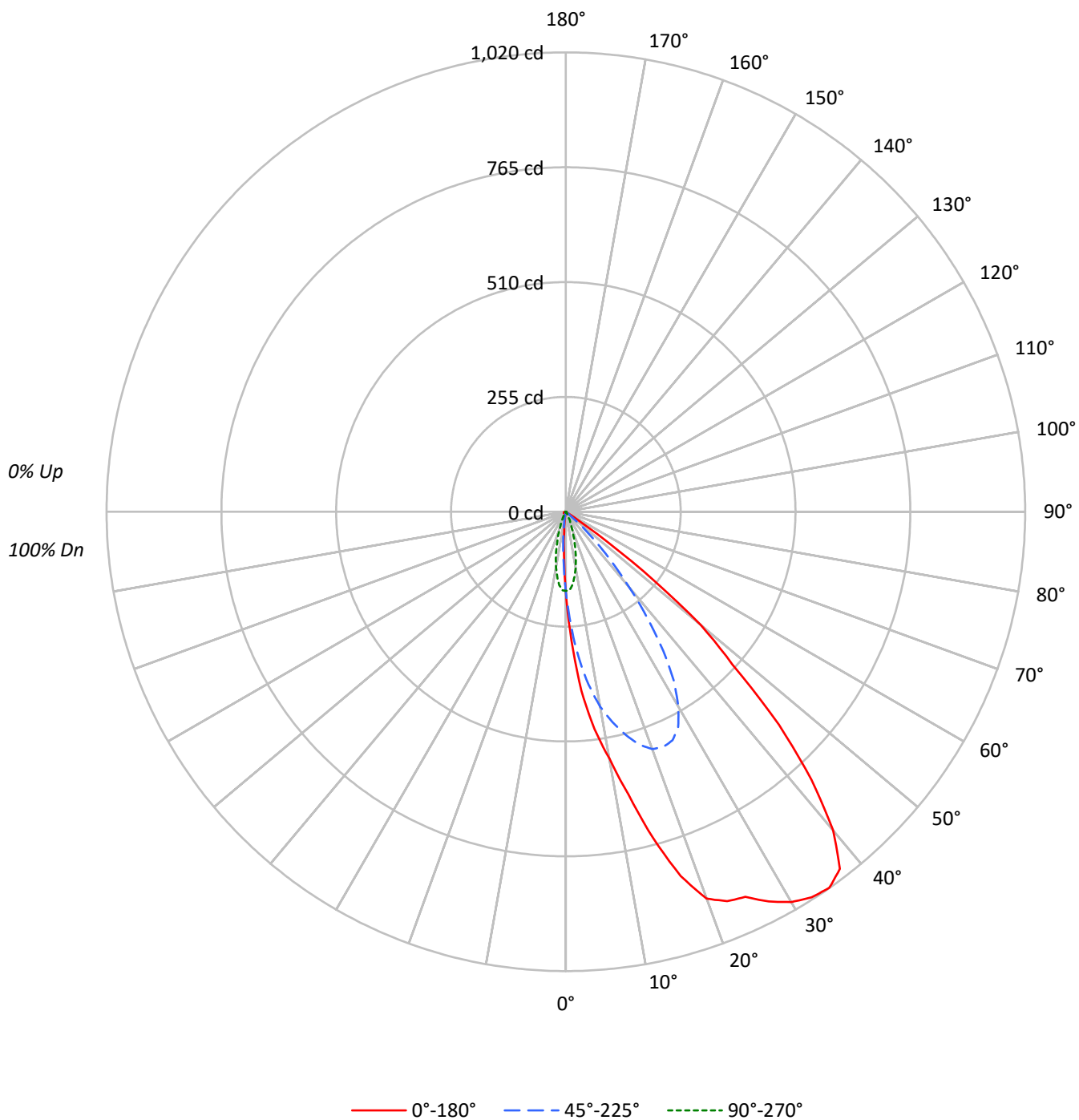
Lumens per Lamp: N/A
Luminaire Lumens: 462.0 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	38550	38550	38550	38550	38550
5°	87849	71274	36055	14462	9861
10°	123801	97905	27877	3184	1470
15°	170603	116482	17798	1044	885
20°	213332	130818	9287	723	723
25°	228279	135468	4307	556	653
30°	253381	126500	1950	582	684
35°	272939	100840	616	616	830
40°	264123	62489	344	773	1002
45°	207401	29460	372	961	1209
50°	133249	3411	512	1194	1569
55°	20224	306	573	1491	1912
60°	351	351	658	1710	2017
65°	415	415	778	1816	2387
70°	513	513	962	1988	2757
75°	339	678	1271	2288	2965
80°	505	1010	1515	2399	3410
85°	0	1006	2013	3019	3019

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 207401 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.2	4.2
10°-20°	69.6	15.1
20°-30°	122.2	26.4
30°-40°	138.8	30.0
40°-50°	89.9	19.4
50°-60°	17.6	3.8
60°-70°	2.2	0.5
70°-80°	1.8	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°	211.0	45.7
0°-40°	349.8	75.7
0°-60°	457.3	99.0
0°-90°	462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	462.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	176	176	176	176	176	
5°	399	324	164	66	45	42
15°	752	513	78	5	4	217
25°	944	560	18	2	3	442
35°	1020	377	2	2	3	627
45°	669	95	1	3	4	504
55°	53	1	2	4	5	101
65°	1	1	2	4	5	1
75°	0	1	2	3	4	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°	175.8	175.8	175.8	175.8	175.8	175.8	175.8	175.8	175.8	175.8	175.8
2.5°	285.5	284.8	285.9	278.2	277.8	272.0	270.5	263.9	255.0	250.8	240.7
5°	399.1	395.3	395.3	386.0	382.9	376.3	365.1	351.2	339.6	323.8	306.8
7.5°	486.8	486.1	486.1	477.9	470.2	460.9	445.9	430.0	411.5	387.1	362.4
10°	556.0	557.2	553.7	546.3	535.1	525.1	507.3	488.0	465.2	439.7	406.9
12.5°	643.3	634.8	632.1	615.5	601.2	581.9	560.6	538.6	510.4	478.3	441.2
15°	751.5	740.7	729.9	707.8	683.9	654.1	620.9	588.4	552.1	513.1	466.7
17.5°	848.1	848.1	833.8	799.0	768.1	724.1	679.2	636.0	593.1	541.7	483.7
20°	914.2	910.7	899.9	874.4	839.2	789.4	731.0	670.4	618.6	560.6	493.4
22.5°	935.8	935.0	935.4	920.3	892.1	840.4	768.9	697.4	632.5	565.3	488.8
25°	943.5	945.1	948.9	943.1	921.9	870.1	792.1	710.2	636.7	559.9	471.0
27.5°	975.6	972.5	976.8	972.9	948.9	887.1	796.7	707.1	627.5	540.2	439.3
30°	1000.7	999.9	1007.3	1003.8	972.5	897.9	792.5	695.5	604.7	499.6	389.5
32.5°	1015.0	1015.4	1017.3	1003.0	956.7	874.4	771.6	671.9	561.8	446.6	324.6
35°	1019.6	1017.3	1006.5	971.3	908.0	819.9	720.2	615.9	503.4	376.7	256.6
37.5°	999.5	987.6	959.8	907.2	833.8	751.5	654.5	545.2	423.5	297.5	191.3
40°	922.7	906.8	871.7	818.0	749.6	670.0	570.7	456.3	328.4	218.3	134.5
42.5°	807.5	799.4	762.7	716.0	658.0	577.6	475.2	359.3	243.0	150.7	85.8
45°	668.8	658.4	635.2	593.9	548.3	464.0	368.6	257.3	165.8	95.0	42.5
47.5°	501.5	502.3	486.4	455.1	410.3	340.0	252.3	172.7	103.9	49.1	9.7
50°	390.6	385.2	362.8	330.7	278.6	226.4	163.0	109.0	54.9	10.0	0.8
52.5°	216.4	219.8	207.9	197.4	170.4	135.2	96.2	55.3	11.6	1.2	0.8
55°	52.9	56.0	53.7	54.9	56.8	50.6	39.0	10.8	1.2	0.8	0.8
57.5°	1.2	1.2	1.2	1.2	1.9	2.7	2.7	0.8	0.8	0.8	0.8
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
82.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.8
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°	175.8	175.8	175.8	175.8	175.8	175.8	175.8	175.8
2.5°	235.7	228.3	214.8	174.6	140.3	113.2	97.0	95.4
5°	291.7	272.0	243.4	163.8	103.5	65.7	47.5	44.8
7.5°	336.1	308.3	264.3	146.0	70.7	33.6	18.5	15.5
10°	372.9	333.4	275.1	125.2	44.4	14.3	7.7	6.6
12.5°	398.0	350.4	277.0	102.0	25.5	7.0	5.0	4.6
15°	414.2	355.9	267.8	78.4	14.3	4.6	4.3	3.9
17.5°	420.8	351.2	250.0	56.8	7.7	3.5	3.5	3.5
20°	417.7	336.1	223.7	39.8	5.0	3.1	3.1	3.1
22.5°	403.0	310.3	190.9	26.7	3.5	2.7	2.7	2.7
25°	374.0	275.1	156.1	17.8	2.3	2.3	2.7	2.7
27.5°	330.7	231.8	119.4	12.0	1.9	2.3	2.7	2.7
30°	276.3	183.5	85.8	7.7	1.9	2.3	2.3	2.7
32.5°	219.5	133.7	56.4	4.6	1.5	2.3	2.7	3.1
35°	159.2	91.2	35.9	2.3	1.9	2.3	2.7	3.1
37.5°	111.7	59.5	20.9	1.5	1.9	2.3	3.1	3.1
40°	72.6	33.2	7.7	1.2	1.9	2.7	3.1	3.5
42.5°	37.9	11.6	1.5	1.2	1.9	2.7	3.5	3.9
45°	9.7	1.5	0.4	1.2	2.3	3.1	3.9	3.9
47.5°	1.2	0.4	0.4	1.5	2.3	3.5	3.9	4.3
50°	0.4	0.8	0.8	1.5	2.3	3.5	4.3	4.6
52.5°	0.8	0.8	0.8	1.5	2.7	3.5	4.6	5.0
55°	0.8	0.8	0.8	1.5	2.7	3.9	4.6	5.0
57.5°	0.8	0.8	0.8	1.5	2.7	3.9	4.6	4.6
60°	0.8	0.8	0.8	1.5	2.7	3.9	4.6	4.6
62.5°	0.8	0.8	1.2	1.5	2.7	3.5	4.6	4.6
65°	0.8	1.2	1.2	1.5	2.7	3.5	4.3	4.6
67.5°	0.8	0.8	1.2	1.5	2.7	3.5	4.3	4.6
70°	0.8	0.8	1.2	1.5	2.3	3.1	3.9	4.3
72.5°	0.8	0.8	1.2	1.5	2.3	3.1	3.5	3.9
75°	0.8	0.8	1.2	1.5	1.9	2.7	3.5	3.5
77.5°	0.8	0.8	1.2	1.2	1.9	2.3	3.1	3.1
80°	0.8	0.8	1.2	1.2	1.5	1.9	2.3	2.7
82.5°	0.8	0.8	0.8	1.2	1.2	1.5	1.9	1.9
85°	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2
87.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)