

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: P1337919

Luminaire Tested: P3A05R309730DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R309730DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

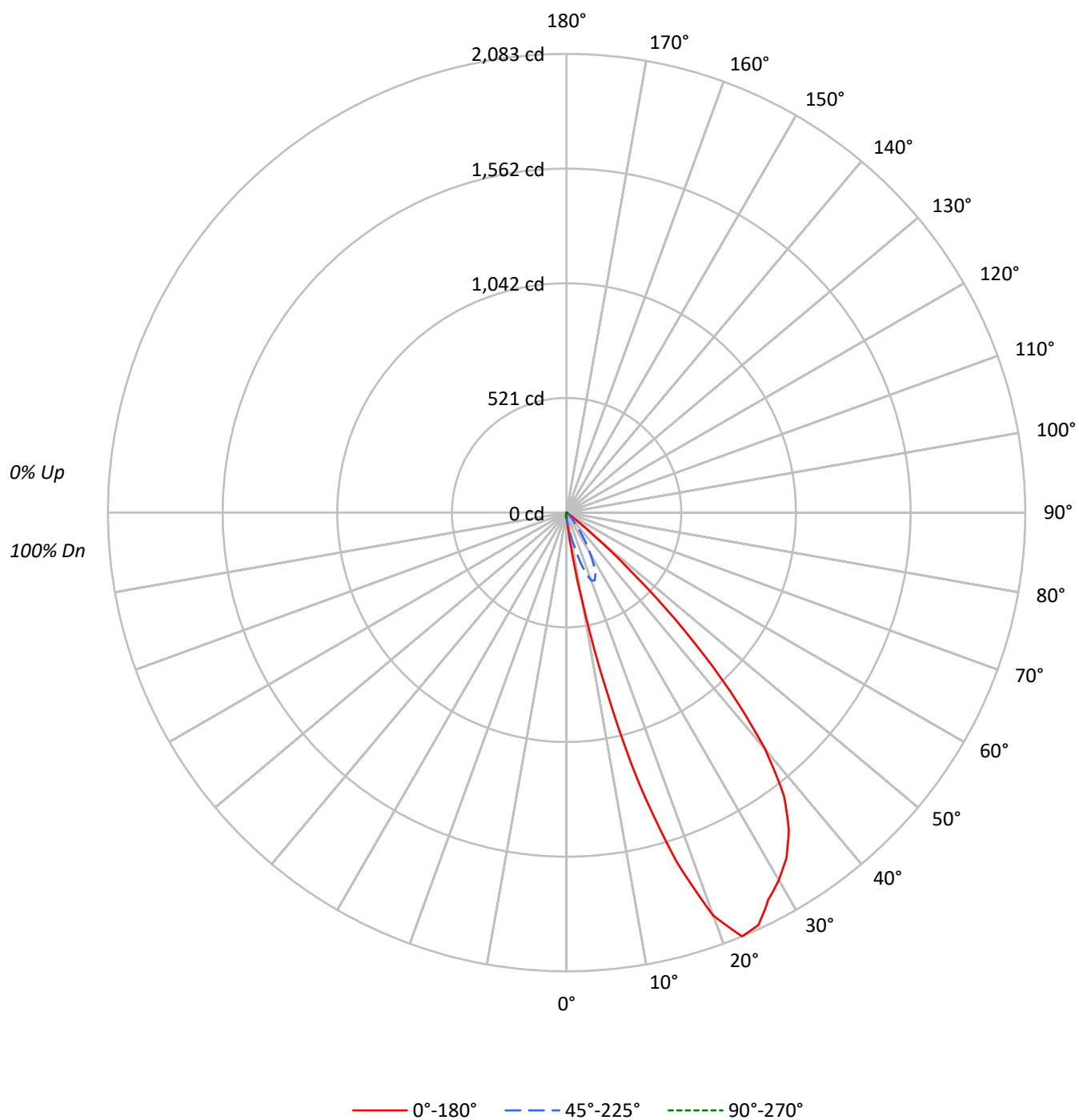
Lumens per Lamp: N/A
Luminaire Lumens: 490.9 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	95	92	104	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	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	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	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°	5109	5109	5109	5109	5109
5°	15408	10280	4843	2179	1783
10°	89221	21776	3785	1002	690
15°	290172	49399	2656	204	91
20°	454059	76423	1680	0	0
25°	499553	74690	871	0	0
30°	487923	53856	329	0	0
35°	470924	30624	107	0	0
40°	401610	12967	0	0	0
45°	235683	4869	124	0	124
50°	57243	921	136	136	443
55°	4970	0	344	497	688
60°	175	0	395	570	965
65°	208	208	675	675	1141
70°	256	256	833	833	1154
75°	0	339	1101	1101	1101
80°	0	505	1642	1137	1137
85°	0	1006	3271	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 235683 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	0.9
10°-20°	67.5	13.7
20°-30°	171.5	34.9
30°-40°	170.9	34.8
40°-50°	69.2	14.1
50°-60°	4.8	1.0
60°-70°	1.1	0.2
70°-80°	1.0	0.2
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°	243.3	49.6
0°-40°	414.2	84.4
0°-60°	488.2	99.5
0°-90°	490.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	490.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	70	47	22	10	8	16
15°	1278	218	12	1	0	372
25°	2065	309	4	0	0	932
35°	1759	114	0	0	0	1078
45°	760	16	0	0	0	580
55°	13	0	1	1	2	34
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°	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
2.5°	38.6	39.0	39.0	38.1	37.7	37.7	36.3	35.9	34.5	33.2	28.7
5°	70.0	68.6	66.9	66.9	62.8	60.6	57.4	53.8	51.1	46.7	33.2
7.5°	158.8	148.1	144.9	140.9	125.6	113.5	99.6	87.5	76.3	66.9	36.8
10°	400.7	379.6	362.1	326.6	282.2	239.6	200.1	154.3	122.9	97.8	39.5
12.5°	807.1	778.9	745.2	680.6	597.6	491.3	397.1	296.6	208.2	144.0	40.4
15°	1278.2	1230.2	1177.7	1095.6	959.7	807.1	637.1	476.9	334.3	217.6	39.5
17.5°	1662.3	1643.4	1565.8	1453.7	1287.2	1090.7	881.2	662.2	450.9	284.9	36.8
20°	1945.8	1932.8	1839.1	1719.7	1532.2	1307.0	1040.9	778.0	532.1	327.5	32.8
22.5°	2082.7	2080.4	2012.7	1890.7	1691.9	1436.6	1143.6	844.8	557.2	333.4	27.4
25°	2064.7	2072.8	2034.2	1943.6	1752.9	1490.0	1174.1	844.8	538.8	308.7	22.9
27.5°	1983.1	1988.5	1964.2	1894.7	1717.0	1451.4	1131.5	790.5	485.5	265.2	18.8
30°	1927.0	1929.2	1899.2	1824.7	1636.3	1363.5	1031.0	690.0	404.7	212.7	13.9
32.5°	1858.8	1858.4	1823.4	1738.1	1530.4	1240.1	903.6	570.2	310.9	161.5	8.1
35°	1759.2	1748.0	1700.4	1602.2	1372.5	1074.1	740.7	434.3	223.9	114.4	4.9
37.5°	1622.4	1593.2	1525.9	1394.4	1150.8	842.1	549.2	305.1	153.0	75.8	3.1
40°	1403.0	1372.0	1280.5	1120.8	870.4	606.1	370.1	198.8	96.5	45.3	1.8
42.5°	1100.1	1079.0	955.6	796.4	574.7	386.7	222.5	117.5	54.3	26.0	0.4
45°	760.0	732.7	635.8	500.7	345.0	214.5	124.7	61.5	31.0	15.7	0.0
47.5°	419.5	385.8	329.8	259.3	173.6	112.6	62.8	33.2	17.5	7.6	0.0
50°	167.8	166.5	132.4	94.2	66.4	51.1	31.4	17.9	9.0	2.7	0.4
52.5°	58.8	58.8	50.7	41.3	32.3	23.3	15.7	8.5	3.1	0.9	0.4
55°	13.0	14.4	13.5	12.6	12.1	10.3	6.7	3.1	0.9	0.0	0.4
57.5°	1.3	1.3	1.3	1.8	2.2	2.2	1.8	0.9	0.0	0.0	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.9
62.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.4	0.9
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
75°	0.0	0.0	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.4	1.3
77.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.9
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°	23.3	23.3	23.3	23.3	23.3
2.5°	23.3	18.4	15.3	13.5	13.0
5°	22.0	13.9	9.9	8.5	8.1
7.5°	19.7	10.3	6.7	5.4	4.9
10°	17.0	7.6	4.5	3.1	3.1
12.5°	14.4	5.8	2.7	1.3	0.9
15°	11.7	3.6	0.9	0.4	0.4
17.5°	9.0	2.2	0.0	0.0	0.0
20°	7.2	0.9	0.0	0.0	0.0
22.5°	5.4	0.4	0.0	0.0	0.0
25°	3.6	0.0	0.0	0.0	0.0
27.5°	2.2	0.0	0.0	0.0	0.0
30°	1.3	0.0	0.0	0.0	0.0
32.5°	0.4	0.0	0.0	0.0	0.0
35°	0.4	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.4	0.0	0.0	0.4	0.4
47.5°	0.4	0.4	0.4	0.9	0.9
50°	0.4	0.4	0.4	0.9	1.3
52.5°	0.9	0.4	0.9	1.3	1.3
55°	0.9	0.9	1.3	1.8	1.8
57.5°	0.9	0.9	1.3	1.8	1.8
60°	0.9	0.9	1.3	1.8	2.2
62.5°	1.3	1.3	1.3	1.8	1.8
65°	1.3	1.3	1.3	1.8	2.2
67.5°	1.3	1.3	1.3	1.8	2.2
70°	1.3	1.3	1.3	1.8	1.8
72.5°	1.8	1.3	1.3	1.8	1.8
75°	1.3	1.3	1.3	1.3	1.3
77.5°	1.3	1.3	0.9	1.3	1.3
80°	1.3	0.9	0.9	0.9	0.9
82.5°	1.3	0.9	0.9	0.9	0.9
85°	1.3	0.9	0.4	0.4	0.4
87.5°	1.3	0.9	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)