

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: P1337871

Luminaire Tested: P3A05R309040DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337871
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: P3A05R309040DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

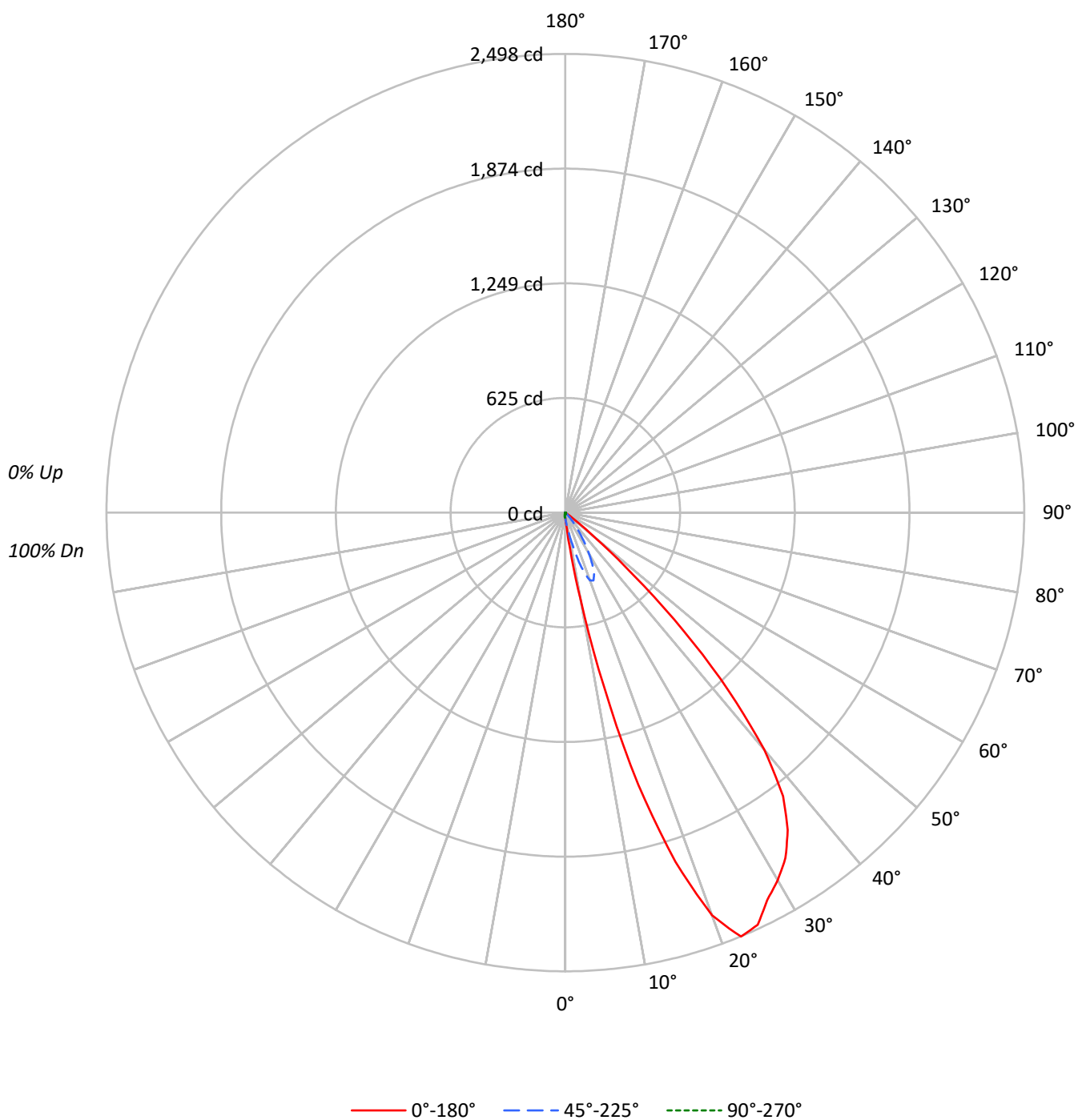
Lumens per Lamp: N/A
Luminaire Lumens: 589.0 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	77	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	69	69	68
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6140	6140	6140	6140	6140
5°	18490	12327	5811	2597	2135
10°	107012	26118	4565	1202	846
15°	348106	59251	3178	250	114
20°	544694	91685	2007	0	0
25°	599260	89594	1040	0	0
30°	585305	64592	405	0	0
35°	564911	36727	134	0	0
40°	481760	15572	0	0	0
45°	282727	5830	155	0	155
50°	68672	1092	171	171	546
55°	5964	0	421	612	841
60°	219	0	482	702	1184
65°	259	259	830	830	1401
70°	321	321	1026	1026	1410
75°	0	424	1356	1356	1356
80°	0	631	2020	1389	1389
85°	0	1258	4026	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 282727 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	0.9
10°-20°	81.0	13.7
20°-30°	205.7	34.9
30°-40°	205.0	34.8
40°-50°	83.1	14.1
50°-60°	5.7	1.0
60°-70°	1.3	0.2
70°-80°	1.3	0.2
80°-90°	0.7	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°	291.8	49.5
0°-40°	496.9	84.4
0°-60°	585.7	99.4
0°-90°	589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	589.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	84	56	26	12	10	19
15°	1533	261	14	1	0	446
25°	2477	370	4	0	0	1118
35°	2110	137	0	0	0	1294
45°	912	19	0	0	0	696
55°	16	0	1	2	2	41
65°	0	0	2	2	3	0
75°	0	0	2	2	2	0
85°	0	0	2	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°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
2.5°	46.3	46.8	46.8	45.7	45.2	45.2	43.6	43.1	41.4	39.8	34.4
5°	84.0	82.3	80.2	80.2	75.3	72.7	68.9	64.6	61.4	56.0	39.8
7.5°	190.5	177.6	173.8	169.0	150.7	136.2	119.5	105.0	91.5	80.2	44.1
10°	480.6	455.3	434.3	391.8	338.5	287.4	240.0	185.1	147.5	117.3	47.4
12.5°	968.2	934.3	894.0	816.5	716.9	589.3	476.3	355.8	249.7	172.8	48.4
15°	1533.4	1475.8	1412.8	1314.3	1151.2	968.2	764.3	572.1	401.0	261.0	47.4
17.5°	1994.1	1971.5	1878.4	1743.8	1544.1	1308.4	1057.0	794.4	540.9	341.8	44.1
20°	2334.2	2318.6	2206.1	2063.0	1838.0	1567.8	1248.6	933.3	638.3	392.9	39.3
22.5°	2498.4	2495.7	2414.4	2268.0	2029.6	1723.4	1371.9	1013.5	668.5	399.9	32.8
25°	2476.8	2486.5	2440.2	2331.5	2102.8	1787.4	1408.5	1013.5	646.4	370.3	27.4
27.5°	2378.9	2385.4	2356.3	2272.9	2059.7	1741.1	1357.4	948.3	582.3	318.1	22.6
30°	2311.6	2314.3	2278.2	2188.9	1962.9	1635.6	1236.8	827.8	485.5	255.1	16.7
32.5°	2229.8	2229.3	2187.3	2085.0	1835.8	1487.6	1084.0	684.1	373.0	193.8	9.7
35°	2110.3	2096.9	2039.8	1922.0	1646.4	1288.5	888.6	521.0	268.6	137.2	5.9
37.5°	1946.2	1911.2	1830.5	1672.8	1380.5	1010.2	658.8	366.0	183.5	91.0	3.8
40°	1683.0	1645.8	1536.1	1344.5	1044.1	727.1	444.0	238.4	115.7	54.4	2.2
42.5°	1319.7	1294.4	1146.4	955.3	689.4	463.9	267.0	141.0	65.1	31.2	0.5
45°	911.7	878.9	762.6	600.6	413.9	257.3	149.6	73.7	37.1	18.8	0.0
47.5°	503.2	462.9	395.6	311.1	208.3	135.1	75.3	39.8	21.0	9.1	0.0
50°	201.3	199.7	158.8	113.0	79.7	61.4	37.7	21.5	10.8	3.2	0.5
52.5°	70.5	70.5	60.8	49.5	38.8	28.0	18.8	10.2	3.8	1.1	0.5
55°	15.6	17.2	16.1	15.1	14.5	12.4	8.1	3.8	1.1	0.0	0.5
57.5°	1.6	1.6	1.6	2.2	2.7	2.7	2.2	1.1	0.0	0.0	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	1.1
62.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	1.1
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6
75°	0.0	0.0	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.5	1.6
77.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.1
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°	28.0	28.0	28.0	28.0	28.0
2.5°	28.0	22.1	18.3	16.1	15.6
5°	26.4	16.7	11.8	10.2	9.7
7.5°	23.7	12.4	8.1	6.5	5.9
10°	20.5	9.1	5.4	3.8	3.8
12.5°	17.2	7.0	3.2	1.6	1.1
15°	14.0	4.3	1.1	0.5	0.5
17.5°	10.8	2.7	0.0	0.0	0.0
20°	8.6	1.1	0.0	0.0	0.0
22.5°	6.5	0.5	0.0	0.0	0.0
25°	4.3	0.0	0.0	0.0	0.0
27.5°	2.7	0.0	0.0	0.0	0.0
30°	1.6	0.0	0.0	0.0	0.0
32.5°	0.5	0.0	0.0	0.0	0.0
35°	0.5	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°	0.5	0.0	0.0	0.5	0.5
47.5°	0.5	0.5	0.5	1.1	1.1
50°	0.5	0.5	0.5	1.1	1.6
52.5°	1.1	0.5	1.1	1.6	1.6
55°	1.1	1.1	1.6	2.2	2.2
57.5°	1.1	1.1	1.6	2.2	2.2
60°	1.1	1.1	1.6	2.2	2.7
62.5°	1.6	1.6	1.6	2.2	2.2
65°	1.6	1.6	1.6	2.2	2.7
67.5°	1.6	1.6	1.6	2.2	2.7
70°	1.6	1.6	1.6	2.2	2.2
72.5°	2.2	1.6	1.6	2.2	2.2
75°	1.6	1.6	1.6	1.6	1.6
77.5°	1.6	1.6	1.1	1.6	1.6
80°	1.6	1.1	1.1	1.1	1.1
82.5°	1.6	1.1	1.1	1.1	1.1
85°	1.6	1.1	0.5	0.5	0.5
87.5°	1.6	1.1	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)