

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: P1344963

Luminaire Tested: P3A13R309040DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344963
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: P3A13R309040DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

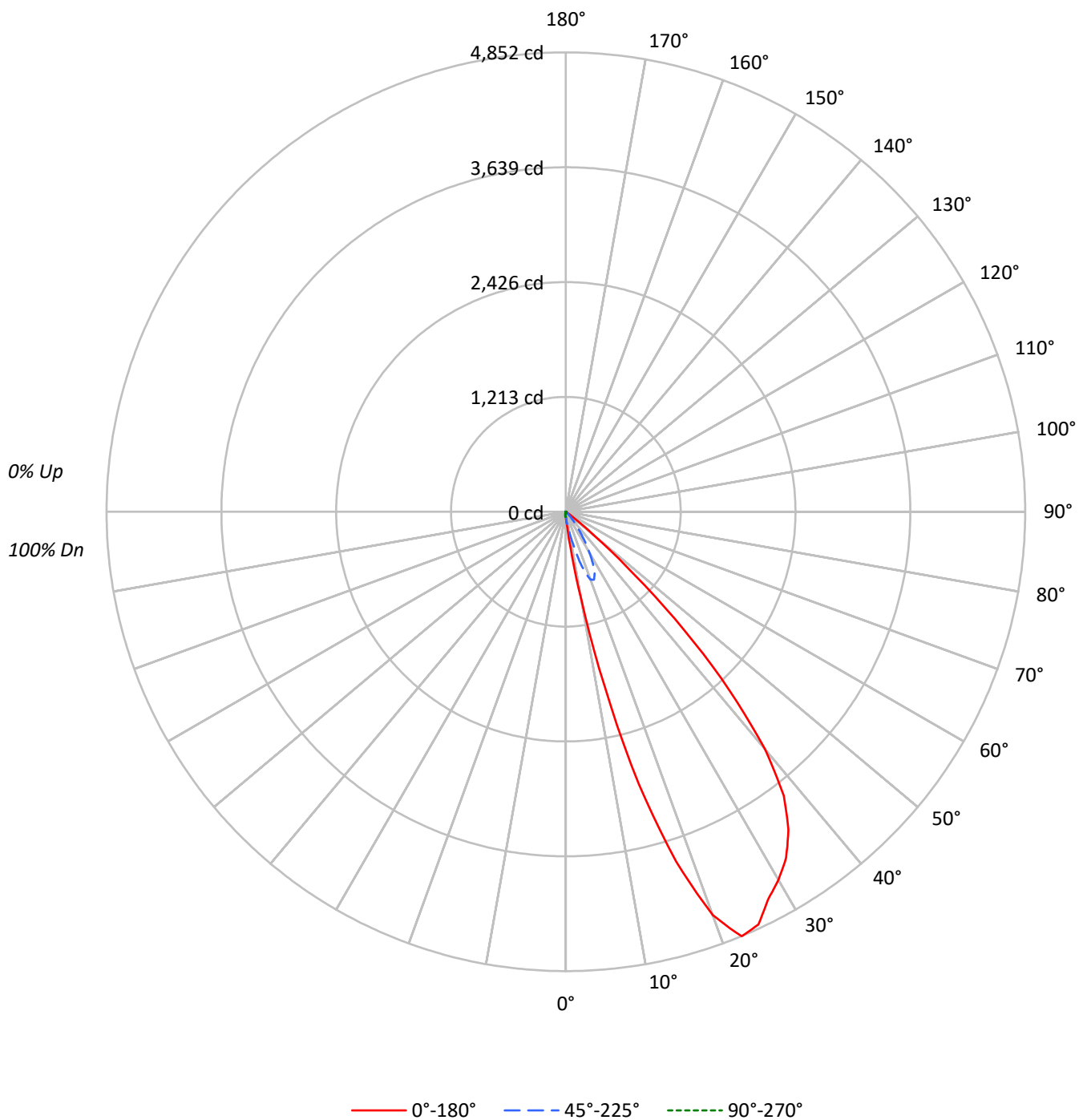
Lumens per Lamp: N/A
Luminaire Lumens: 1143.9 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	103	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°	11929	11929	11929	11929	11929
5°	35901	23927	11270	5063	4138
10°	207856	50745	8840	2338	1625
15°	676099	115097	6175	477	227
20°	1057955	178072	3897	0	0
25°	1163946	174010	2032	0	0
30°	1136833	125462	785	0	0
35°	1097217	71367	268	0	0
40°	935696	30228	0	0	0
45°	549142	11350	310	0	310
50°	133386	2149	341	341	1058
55°	11584	0	803	1185	1606
60°	439	0	921	1360	2281
65°	519	519	1608	1608	2698
70°	641	641	1988	1988	2693
75°	0	847	2626	2626	2626
80°	0	1263	3915	2652	2652
85°	0	2516	7799	2516	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 549142 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	0.9
10°-20°	157.2	13.7
20°-30°	399.6	34.9
30°-40°	398.2	34.8
40°-50°	161.3	14.1
50°-60°	11.1	1.0
60°-70°	2.5	0.2
70°-80°	2.5	0.2
80°-90°	1.4	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°	566.8	49.5
0°-40°	965.0	84.4
0°-60°	1137.5	99.4
0°-90°	1143.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1143.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	54	54	54	54	54	
5°	163	109	51	23	19	38
15°	2978	507	27	2	1	867
25°	4811	719	8	0	0	2172
35°	4099	267	1	0	0	2512
45°	1771	37	1	0	1	1351
55°	30	0	2	3	4	79
65°	1	1	3	3	5	1
75°	0	1	3	3	3	0
85°	0	1	3	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°	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
2.5°	89.9	90.9	90.9	88.9	87.8	87.8	84.7	83.6	80.5	77.4	66.9
5°	163.1	159.9	155.8	155.8	146.3	141.1	133.8	125.4	119.2	108.7	77.4
7.5°	370.1	345.0	337.6	328.2	292.7	264.5	232.1	203.8	177.7	155.8	85.7
10°	933.5	884.4	843.6	761.0	657.5	558.2	466.2	359.6	286.4	227.9	92.0
12.5°	1880.6	1814.7	1736.3	1585.8	1392.4	1144.7	925.1	691.0	485.0	335.6	94.1
15°	2978.2	2866.4	2744.1	2552.8	2236.0	1880.6	1484.4	1111.2	778.8	507.0	92.0
17.5°	3873.0	3829.1	3648.3	3386.9	2999.1	2541.3	2053.1	1542.9	1050.6	663.8	85.7
20°	4533.7	4503.4	4284.9	4006.8	3569.9	3045.1	2425.2	1812.6	1239.8	763.1	76.3
22.5°	4852.5	4847.3	4689.5	4405.1	3942.0	3347.2	2664.6	1968.4	1298.3	776.7	63.8
25°	4810.7	4829.5	4739.6	4528.5	4084.2	3471.6	2735.7	1968.4	1255.5	719.2	53.3
27.5°	4620.5	4633.0	4576.6	4414.5	4000.6	3381.7	2636.4	1841.9	1131.1	617.8	43.9
30°	4489.8	4495.0	4425.0	4251.5	3812.4	3176.8	2402.2	1607.8	942.9	495.5	32.4
32.5°	4330.9	4329.9	4248.3	4049.7	3565.7	2889.4	2105.3	1328.6	724.4	376.3	18.8
35°	4098.8	4072.7	3961.9	3733.0	3197.7	2502.6	1725.9	1011.9	521.6	266.6	11.5
37.5°	3780.0	3712.1	3555.2	3249.0	2681.3	1962.1	1279.5	710.8	356.5	176.7	7.3
40°	3268.8	3196.7	2983.4	2611.3	2028.0	1412.3	862.4	463.1	224.8	105.6	4.2
42.5°	2563.2	2514.1	2226.6	1855.5	1339.1	901.1	518.5	273.9	126.5	60.6	1.0
45°	1770.8	1707.1	1481.3	1166.6	803.9	499.7	290.6	143.2	72.1	36.6	0.0
47.5°	977.4	899.0	768.3	604.2	404.6	262.4	146.3	77.4	40.8	17.8	0.0
50°	391.0	387.8	308.4	219.5	154.7	119.2	73.2	41.8	20.9	6.3	1.0
52.5°	136.9	136.9	118.1	96.2	75.3	54.4	36.6	19.9	7.3	2.1	1.0
55°	30.3	33.5	31.4	29.3	28.2	24.0	15.7	7.3	2.1	0.0	1.0
57.5°	3.1	3.1	3.1	4.2	5.2	5.2	4.2	2.1	0.0	0.0	1.0
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	2.1
62.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	2.1
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.1
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.1
75°	0.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	3.1
77.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	2.1
82.5°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.1
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°	54.4	54.4	54.4	54.4	54.4
2.5°	54.4	42.9	35.5	31.4	30.3
5°	51.2	32.4	23.0	19.9	18.8
7.5°	46.0	24.0	15.7	12.5	11.5
10°	39.7	17.8	10.5	7.3	7.3
12.5°	33.5	13.6	6.3	3.1	2.1
15°	27.2	8.4	2.1	1.0	1.0
17.5°	20.9	5.2	0.0	0.0	0.0
20°	16.7	2.1	0.0	0.0	0.0
22.5°	12.5	1.0	0.0	0.0	0.0
25°	8.4	0.0	0.0	0.0	0.0
27.5°	5.2	0.0	0.0	0.0	0.0
30°	3.1	0.0	0.0	0.0	0.0
32.5°	1.0	0.0	0.0	0.0	0.0
35°	1.0	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°	1.0	0.0	0.0	1.0	1.0
47.5°	1.0	1.0	1.0	2.1	2.1
50°	1.0	1.0	1.0	2.1	3.1
52.5°	2.1	1.0	2.1	3.1	3.1
55°	2.1	2.1	3.1	4.2	4.2
57.5°	2.1	2.1	3.1	4.2	4.2
60°	2.1	2.1	3.1	4.2	5.2
62.5°	3.1	3.1	3.1	4.2	4.2
65°	3.1	3.1	3.1	4.2	5.2
67.5°	3.1	3.1	3.1	4.2	5.2
70°	3.1	3.1	3.1	4.2	4.2
72.5°	4.2	3.1	3.1	4.2	4.2
75°	3.1	3.1	3.1	3.1	3.1
77.5°	3.1	3.1	2.1	3.1	3.1
80°	3.1	2.1	2.1	2.1	2.1
82.5°	3.1	2.1	2.1	2.1	2.1
85°	3.1	2.1	1.0	1.0	1.0
87.5°	3.1	2.1	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)