

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: P1346035

Luminaire Tested: P3A13R409730DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R409730DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

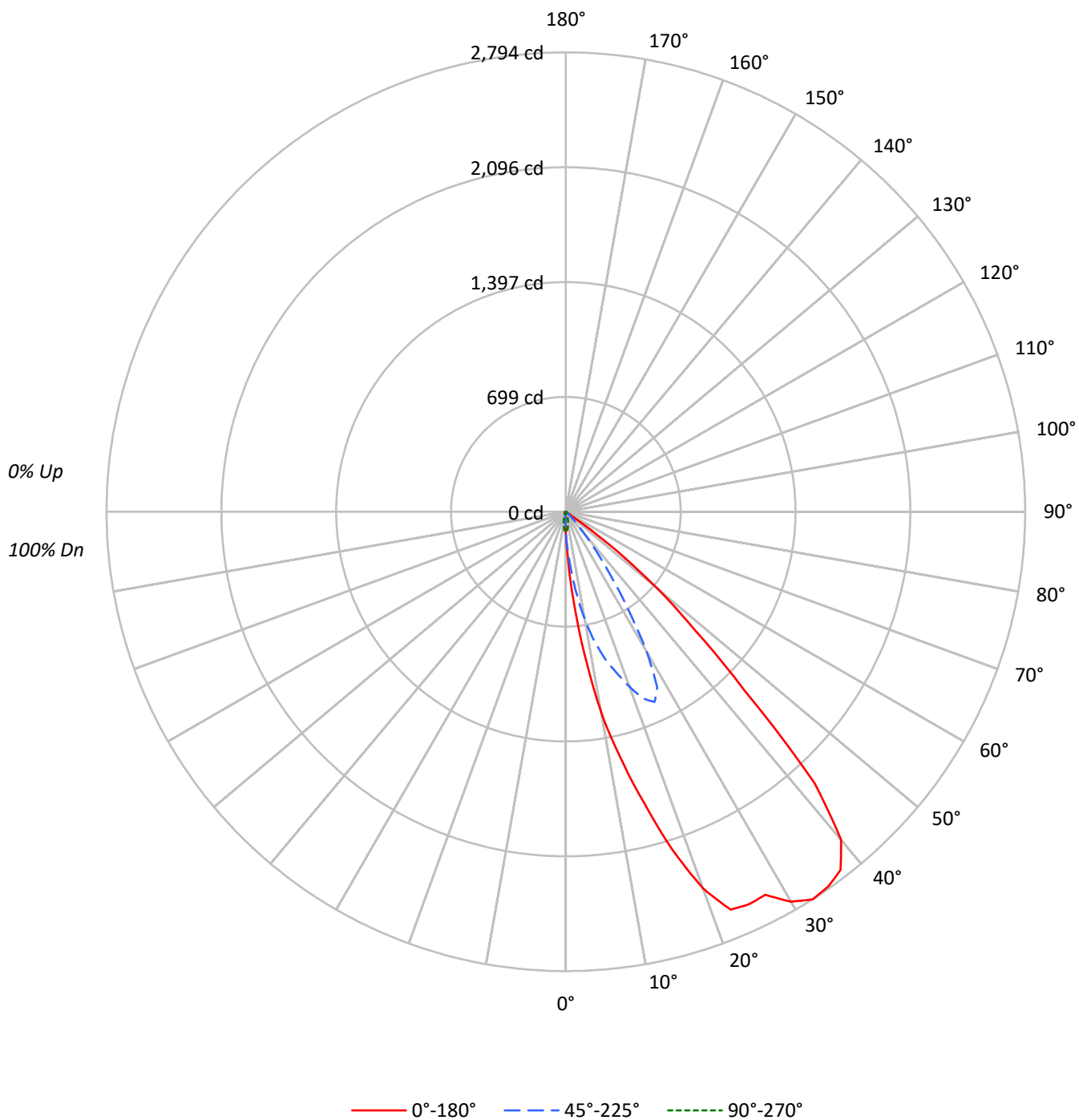
Lumens per Lamp: N/A
Luminaire Lumens: 1031.0 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	94	90	95	91	88		92	89	86		89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82	79	76	74
4	92	83	77	71	90	82	76	71	80	74	70		78	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	80	70	62	57	79	69	62	57	67	61	57		66	60	56		64	60	56	54
7	75	64	57	52	74	63	56	52	62	56	51		61	55	51		59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55	50	46	44
9	66	54	47	42	65	54	47	42	53	46	42		52	46	42		51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	26752	26752	26752	26752	26752
5°	120647	76909	23971	9201	6714
10°	276682	148628	16878	3295	2516
15°	415212	210875	10488	1771	1589
20°	568543	264343	6091	1027	1213
25°	637343	308873	3170	847	1065
30°	693246	249330	1317	658	1114
35°	745041	127582	455	937	1392
40°	745311	50895	258	1002	1746
45°	475863	17025	527	1613	2419
50°	247020	2081	887	2081	2968
55°	21333	344	994	2676	3670
60°	746	395	1140	3070	4210
65°	882	467	1816	3165	4514
70°	577	577	2244	3334	4488
75°	763	763	2203	3728	5168
80°	1137	1137	3283	3283	4420
85°	0	2264	6542	4277	4277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 475863 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.8	2.3
10°-20°	139.5	13.5
20°-30°	305.6	29.6
30°-40°	348.2	33.8
40°-50°	183.7	17.8
50°-60°	21.7	2.1
60°-70°	3.9	0.4
70°-80°	3.2	0.3
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°	468.9	45.5
0°-40°	817.1	79.3
0°-60°	1022.5	99.2
0°-90°	1031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1031.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	122	122	122	122	122	
5°	548	349	109	42	30	74
15°	1829	929	46	8	7	539
25°	2634	1277	13	4	4	1214
35°	2783	477	2	4	5	1725
45°	1534	55	2	5	8	1237
55°	56	1	3	7	10	173
65°	2	1	4	6	9	2
75°	1	1	3	4	6	1
85°	0	1	3	2	2	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°	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0
2.5°	271.9	271.9	271.0	263.2	262.3	261.4	247.5	244.0	227.4	216.1	164.7
5°	548.1	535.9	535.0	521.1	497.6	466.2	446.1	413.9	382.5	349.4	203.0
7.5°	873.1	883.6	854.8	840.0	787.7	750.3	692.7	642.2	571.6	505.4	234.4
10°	1242.6	1224.3	1195.5	1166.8	1110.1	1043.0	957.6	867.9	765.9	667.5	251.8
12.5°	1531.0	1507.5	1490.1	1450.9	1395.1	1308.8	1206.9	1086.6	951.6	809.5	251.0
15°	1829.0	1805.5	1766.3	1731.4	1648.7	1551.9	1441.3	1282.7	1117.1	928.9	232.7
17.5°	2156.7	2126.2	2082.6	2029.5	1949.3	1842.1	1701.8	1508.4	1274.0	1026.5	199.5
20°	2436.4	2418.1	2374.5	2311.8	2233.4	2128.8	1966.7	1752.4	1466.5	1132.8	158.6
22.5°	2619.4	2602.8	2573.2	2518.3	2459.0	2347.5	2199.4	1964.1	1627.7	1229.5	120.3
25°	2634.2	2627.2	2619.4	2601.1	2565.4	2486.1	2341.4	2087.8	1728.0	1276.6	88.9
27.5°	2626.3	2623.7	2622.0	2612.4	2588.9	2510.5	2362.3	2106.1	1714.9	1203.4	65.4
30°	2737.9	2730.0	2725.7	2694.3	2632.4	2511.3	2317.9	2007.7	1524.0	984.7	47.1
32.5°	2794.5	2792.8	2788.4	2757.9	2670.8	2513.1	2242.9	1769.8	1208.6	711.0	32.2
35°	2783.2	2774.5	2758.8	2702.2	2581.0	2383.2	2000.7	1413.4	872.3	476.6	20.9
37.5°	2744.9	2724.8	2694.3	2592.4	2431.2	2161.0	1622.5	1040.4	593.4	308.5	12.2
40°	2603.7	2576.7	2528.8	2404.1	2192.4	1781.1	1199.9	703.2	389.5	177.8	3.5
42.5°	2238.6	2203.7	2168.9	2029.5	1787.2	1328.0	789.5	434.8	222.2	97.6	0.9
45°	1534.5	1490.9	1443.0	1341.9	1147.6	804.3	469.7	244.9	115.0	54.9	0.9
47.5°	1065.7	1045.7	962.0	833.0	638.7	426.1	243.1	120.3	61.0	25.3	0.9
50°	724.1	701.5	603.9	479.3	339.8	203.9	111.5	60.1	27.0	6.1	0.9
52.5°	379.9	352.0	290.2	221.3	137.7	85.4	48.8	26.1	7.8	0.9	0.9
55°	55.8	51.4	41.8	34.0	30.5	23.5	13.9	6.1	0.9	0.9	1.7
57.5°	1.7	1.7	1.7	1.7	2.6	2.6	1.7	0.9	0.9	0.9	1.7
60°	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	1.7
62.5°	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	1.7
65°	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	1.7
67.5°	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	1.7	2.6
70°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	2.6
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	2.6
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	2.6
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	2.6
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	2.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.7
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°	122.0	122.0	122.0	122.0	122.0
2.5°	120.3	88.9	68.8	59.3	58.4
5°	108.9	63.6	41.8	32.2	30.5
7.5°	92.4	44.4	24.4	17.4	16.6
10°	75.8	30.5	14.8	12.2	11.3
12.5°	60.1	20.0	10.5	9.6	8.7
15°	46.2	13.1	7.8	7.0	7.0
17.5°	34.9	8.7	6.1	6.1	6.1
20°	26.1	6.1	4.4	5.2	5.2
22.5°	18.3	4.4	3.5	4.4	4.4
25°	13.1	3.5	3.5	4.4	4.4
27.5°	8.7	2.6	2.6	3.5	4.4
30°	5.2	1.7	2.6	3.5	4.4
32.5°	2.6	1.7	2.6	4.4	4.4
35°	1.7	2.6	3.5	4.4	5.2
37.5°	0.9	2.6	3.5	5.2	5.2
40°	0.9	2.6	3.5	5.2	6.1
42.5°	1.7	3.5	4.4	6.1	7.0
45°	1.7	3.5	5.2	7.0	7.8
47.5°	1.7	3.5	6.1	7.8	7.8
50°	2.6	4.4	6.1	7.8	8.7
52.5°	2.6	4.4	6.1	8.7	9.6
55°	2.6	4.4	7.0	8.7	9.6
57.5°	2.6	5.2	7.0	8.7	9.6
60°	2.6	4.4	7.0	8.7	9.6
62.5°	3.5	4.4	6.1	8.7	8.7
65°	3.5	4.4	6.1	8.7	8.7
67.5°	3.5	4.4	6.1	7.8	7.8
70°	3.5	4.4	5.2	7.0	7.0
72.5°	3.5	4.4	5.2	6.1	7.0
75°	2.6	3.5	4.4	5.2	6.1
77.5°	2.6	3.5	3.5	5.2	5.2
80°	2.6	2.6	2.6	3.5	3.5
82.5°	2.6	2.6	1.7	2.6	2.6
85°	2.6	1.7	1.7	1.7	1.7
87.5°	1.7	1.7	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)