

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: P1345475

Luminaire Tested: P3A13R359040DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R359040DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

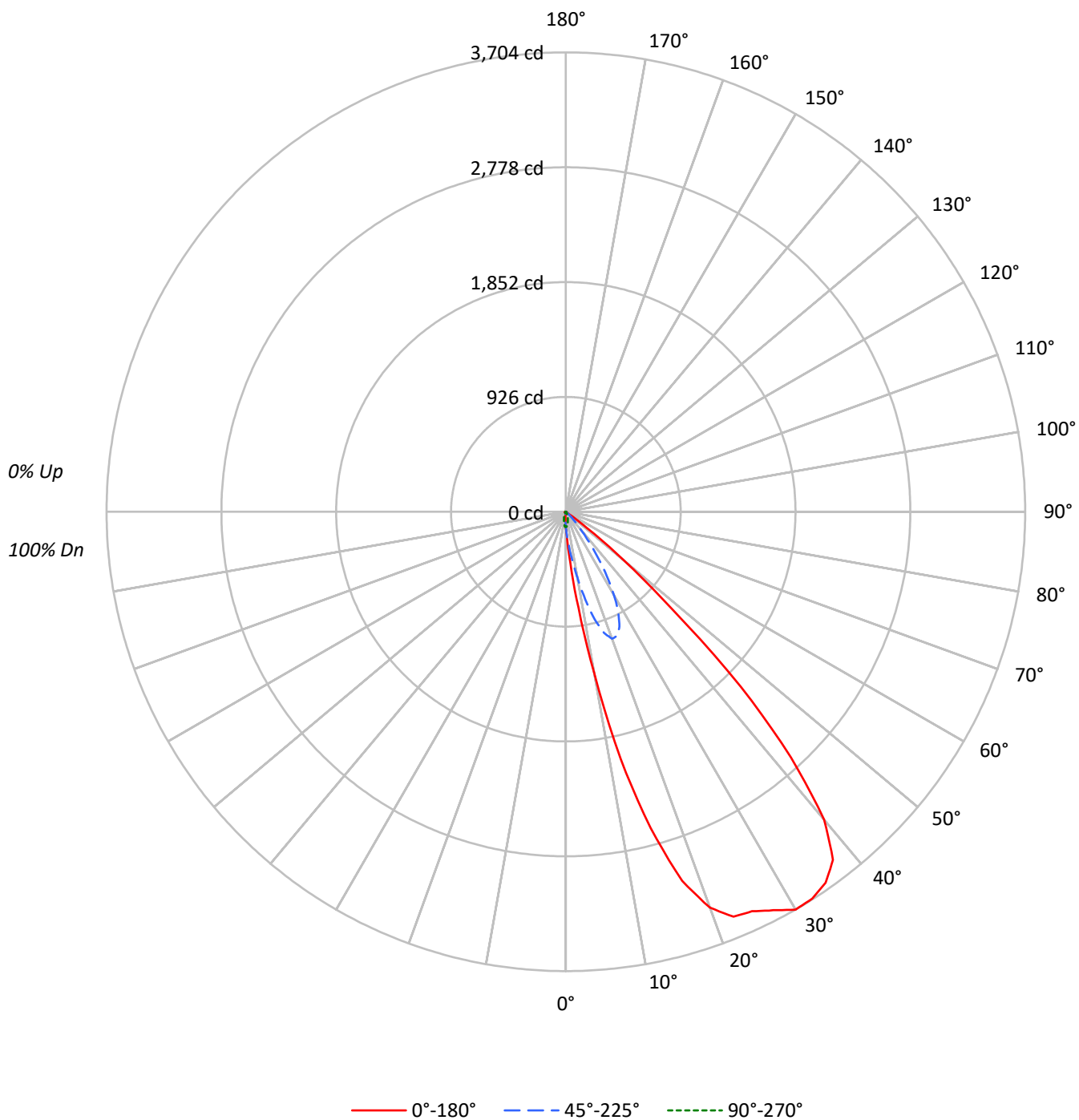
Lumens per Lamp: N/A
Luminaire Lumens: 1164.9 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	93	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	84	84	83
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	76	76	74
4	92	83	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	69	69	67
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	62	62	61
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	56	56	55
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	46	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	42	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	26840	26840	26840	26840	26840
5°	91393	59388	25093	10588	7836
10°	294094	120394	19795	3963	2561
15°	599209	204178	14007	1430	953
20°	792376	254285	9031	490	490
25°	859792	247200	5057	242	508
30°	937891	197018	2127	253	532
35°	977291	122630	562	268	562
40°	927395	53586	286	601	887
45°	619103	21398	310	961	1613
50°	207618	3582	716	1433	2149
55°	11584	382	803	1988	2791
60°	921	439	1360	2281	3201
65°	1090	519	1608	2698	3788
70°	641	641	1988	3334	4039
75°	847	847	2626	3558	4406
80°	0	1263	3915	3915	3915
85°	0	2516	7799	2516	5284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 619103 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.2	1.8
10°-20°	167.3	14.4
20°-30°	353.2	30.3
30°-40°	400.7	34.4
40°-50°	197.2	16.9
50°-60°	17.1	1.5
60°-70°	3.5	0.3
70°-80°	3.2	0.3
80°-90°	1.6	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°	541.7	46.5
0°-40°	942.4	80.9
0°-60°	1156.7	99.3
0°-90°	1164.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1164.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	122	122	122	122	122	
5°	415	270	114	48	36	68
15°	2640	899	62	6	4	750
25°	3554	1022	21	1	2	1654
35°	3651	458	2	1	2	2250
45°	1996	69	1	3	5	1475
55°	30	1	2	5	7	119
65°	2	1	3	5	7	2
75°	1	1	3	4	5	1
85°	0	1	3	1	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°	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4
2.5°	212.3	217.5	215.4	214.4	213.3	209.2	199.7	198.7	189.3	183.0	151.6
5°	415.2	406.8	408.9	397.4	382.8	361.8	348.2	319.0	294.9	269.8	176.7
7.5°	782.2	770.7	748.8	715.3	680.8	635.8	567.9	513.5	450.7	391.1	196.6
10°	1320.8	1314.5	1286.3	1200.6	1125.3	1005.0	892.0	772.8	655.7	540.7	210.2
12.5°	2040.3	1997.4	1946.2	1832.2	1683.7	1533.1	1310.4	1104.3	917.1	724.7	211.2
15°	2639.5	2612.4	2540.2	2391.7	2212.9	1995.3	1730.8	1453.6	1171.3	899.4	200.8
17.5°	3121.6	3079.8	2986.7	2841.4	2635.4	2353.0	2043.4	1705.7	1361.6	1023.8	183.0
20°	3395.6	3373.7	3302.6	3157.2	2932.4	2623.9	2271.4	1878.2	1480.8	1089.7	160.0
22.5°	3533.7	3518.0	3465.7	3349.6	3139.4	2828.8	2425.2	1968.2	1515.3	1082.4	136.0
25°	3553.6	3549.4	3504.4	3416.6	3240.9	2933.4	2492.1	1984.9	1487.1	1021.7	112.9
27.5°	3622.6	3607.9	3554.6	3466.8	3290.0	2951.2	2469.1	1927.4	1396.1	915.1	94.1
30°	3704.1	3693.7	3640.4	3549.4	3340.2	2934.5	2387.5	1799.8	1250.7	778.1	70.1
32.5°	3697.9	3693.7	3648.7	3552.5	3304.7	2836.1	2242.1	1608.4	1053.1	613.9	43.9
35°	3650.8	3636.2	3579.7	3431.2	3101.8	2583.1	1966.1	1349.1	833.5	458.1	28.2
37.5°	3537.9	3506.5	3411.3	3159.3	2738.9	2193.0	1601.1	1041.6	589.8	306.4	17.8
40°	3239.8	3200.1	3008.7	2704.4	2264.1	1727.6	1191.1	716.4	389.0	187.2	7.3
42.5°	2687.6	2607.1	2415.7	2103.1	1690.0	1221.5	782.2	464.3	229.0	112.9	2.1
45°	1996.4	1934.7	1733.9	1450.5	1107.5	783.3	473.7	251.0	126.5	69.0	1.0
47.5°	1162.9	1125.3	1021.7	835.6	611.8	411.0	242.6	134.9	74.3	33.5	1.0
50°	608.6	561.6	483.1	366.0	269.8	189.3	118.2	72.2	36.6	10.5	1.0
52.5°	213.3	210.2	191.4	144.3	117.1	84.7	57.5	31.4	10.5	2.1	1.0
55°	30.3	30.3	28.2	31.4	33.5	30.3	19.9	8.4	2.1	1.0	1.0
57.5°	2.1	2.1	2.1	3.1	4.2	4.2	3.1	1.0	1.0	1.0	2.1
60°	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
62.5°	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
65°	2.1	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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.1
77.5°	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	2.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	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°	122.4	122.4	122.4	122.4	122.4
2.5°	121.3	97.3	77.4	68.0	64.8
5°	114.0	73.2	48.1	37.6	35.6
7.5°	101.4	52.3	29.3	20.9	19.9
10°	88.9	37.6	17.8	12.5	11.5
12.5°	74.3	26.1	11.5	7.3	6.3
15°	61.7	17.8	6.3	5.2	4.2
17.5°	49.2	11.5	4.2	3.1	4.2
20°	38.7	7.3	2.1	2.1	2.1
22.5°	29.3	4.2	2.1	2.1	2.1
25°	20.9	2.1	1.0	1.0	2.1
27.5°	14.6	1.0	1.0	1.0	2.1
30°	8.4	1.0	1.0	1.0	2.1
32.5°	4.2	1.0	1.0	2.1	2.1
35°	2.1	1.0	1.0	2.1	2.1
37.5°	1.0	1.0	1.0	2.1	3.1
40°	1.0	1.0	2.1	3.1	3.1
42.5°	1.0	1.0	2.1	3.1	4.2
45°	1.0	2.1	3.1	4.2	5.2
47.5°	2.1	2.1	4.2	5.2	6.3
50°	2.1	3.1	4.2	6.3	6.3
52.5°	2.1	3.1	5.2	6.3	7.3
55°	2.1	4.2	5.2	7.3	7.3
57.5°	3.1	4.2	5.2	7.3	7.3
60°	3.1	4.2	5.2	7.3	7.3
62.5°	3.1	4.2	5.2	7.3	7.3
65°	3.1	4.2	5.2	7.3	7.3
67.5°	3.1	4.2	5.2	6.3	7.3
70°	3.1	4.2	5.2	6.3	6.3
72.5°	4.2	4.2	5.2	6.3	6.3
75°	3.1	4.2	4.2	5.2	5.2
77.5°	3.1	3.1	3.1	4.2	4.2
80°	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	2.1	2.1	3.1	3.1
85°	3.1	2.1	1.0	2.1	2.1
87.5°	2.1	2.1	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)