

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: P1337793

Luminaire Tested: P3A05R309024DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337793
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: P3A05R309024DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 2400K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

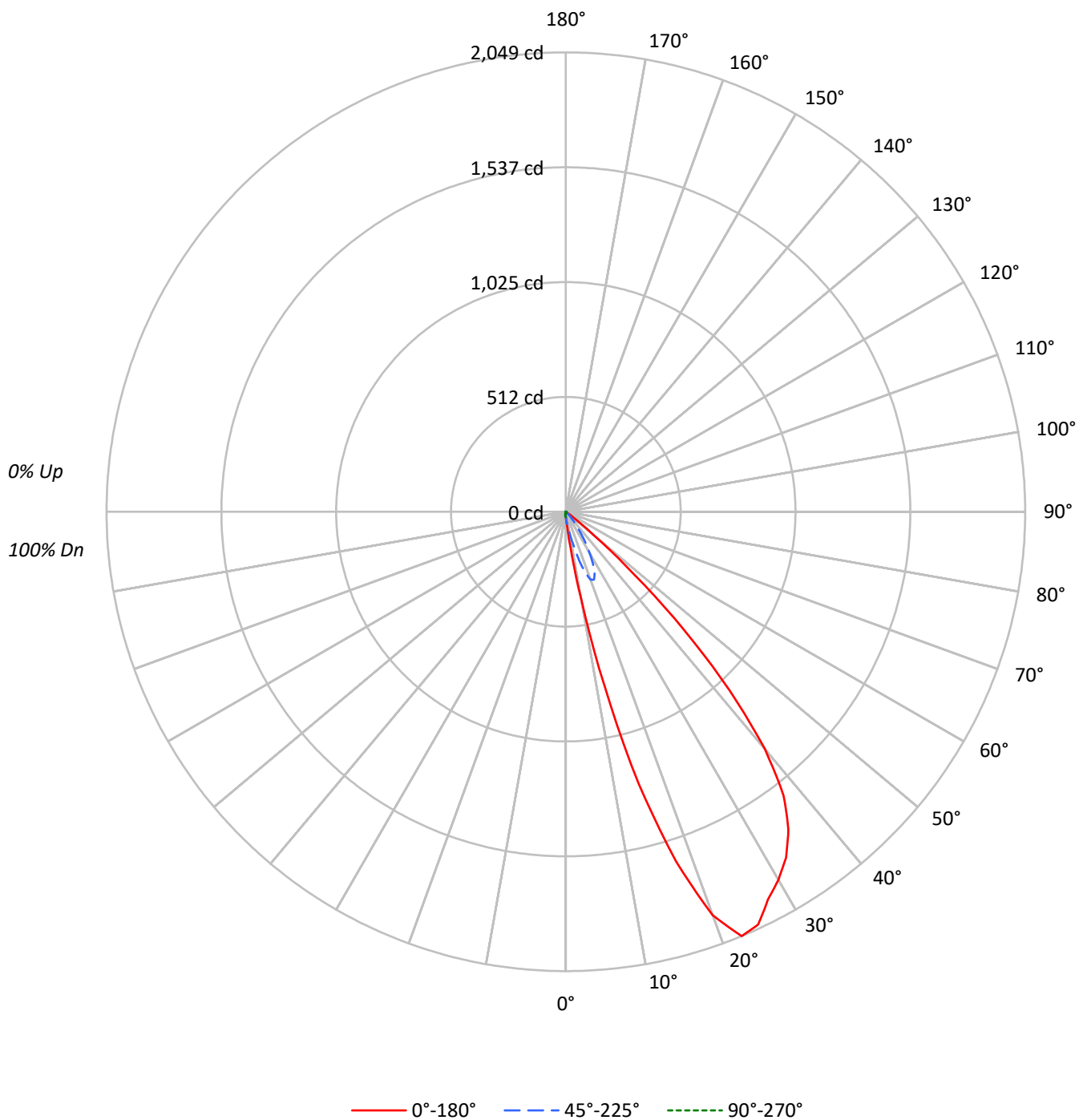
Lumens per Lamp: N/A
Luminaire Lumens: 482.9 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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°	5043	5043	5043	5043	5043
5°	15166	10103	4755	2135	1739
10°	87752	21420	3741	980	690
15°	285450	48604	2611	204	91
20°	446662	75187	1657	0	0
25°	491424	73456	847	0	0
30°	479973	52970	329	0	0
35°	463241	30115	107	0	0
40°	395054	12767	0	0	0
45°	231838	4776	124	0	124
50°	56322	887	136	136	443
55°	4893	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: 231838 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.9
10°-20°	66.4	13.7
20°-30°	168.7	34.9
30°-40°	168.1	34.8
40°-50°	68.1	14.1
50°-60°	4.7	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°	239.3	49.5
0°-40°	407.4	84.4
0°-60°	480.2	99.4
0°-90°	482.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	482.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	69	46	22	10	8	16
15°	1257	214	12	1	0	366
25°	2031	304	4	0	0	917
35°	1730	112	0	0	0	1061
45°	748	15	0	0	0	570
55°	13	0	1	1	2	33
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°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
2.5°	38.0	38.4	38.4	37.5	37.1	37.1	35.7	35.3	34.0	32.7	28.2
5°	68.9	67.5	65.8	65.8	61.8	59.6	56.5	53.0	50.3	45.9	32.7
7.5°	156.2	145.6	142.6	138.6	123.6	111.7	98.0	86.1	75.0	65.8	36.2
10°	394.1	373.4	356.2	321.3	277.6	235.7	196.8	151.8	120.9	96.2	38.8
12.5°	794.0	766.2	733.1	669.5	587.9	483.3	390.6	291.7	204.8	141.7	39.7
15°	1257.4	1210.2	1158.5	1077.8	944.1	794.0	626.7	469.2	328.8	214.1	38.8
17.5°	1635.2	1616.7	1540.3	1430.0	1266.2	1072.9	866.8	651.4	443.6	280.3	36.2
20°	1914.1	1901.3	1809.1	1691.7	1507.2	1285.7	1023.9	765.3	523.4	322.2	32.2
22.5°	2048.8	2046.5	1979.9	1859.9	1664.3	1413.2	1125.0	831.1	548.2	327.9	26.9
25°	2031.1	2039.0	2001.1	1911.9	1724.4	1465.7	1155.0	831.1	530.1	303.6	22.5
27.5°	1950.8	1956.1	1932.2	1863.8	1689.1	1427.8	1113.1	777.7	477.5	260.8	18.5
30°	1895.6	1897.8	1868.2	1795.0	1609.6	1341.3	1014.2	678.8	398.1	209.2	13.7
32.5°	1828.5	1828.1	1793.7	1709.8	1505.4	1219.9	888.9	561.0	305.9	158.9	7.9
35°	1730.5	1719.5	1672.7	1576.1	1350.1	1056.6	728.7	427.2	220.2	112.5	4.9
37.5°	1595.9	1567.2	1501.0	1371.7	1132.1	828.4	540.2	300.1	150.5	74.6	3.1
40°	1380.1	1349.7	1259.6	1102.5	856.2	596.3	364.1	195.5	94.9	44.6	1.8
42.5°	1082.2	1061.5	940.1	783.4	565.4	380.4	218.9	115.6	53.4	25.6	0.4
45°	747.6	720.7	625.4	492.5	339.4	211.0	122.7	60.5	30.5	15.4	0.0
47.5°	412.7	379.6	324.4	255.1	170.8	110.8	61.8	32.7	17.2	7.5	0.0
50°	165.1	163.7	130.2	92.7	65.3	50.3	30.9	17.7	8.8	2.6	0.4
52.5°	57.8	57.8	49.9	40.6	31.8	23.0	15.4	8.4	3.1	0.9	0.4
55°	12.8	14.1	13.2	12.4	11.9	10.2	6.6	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°	23.0	23.0	23.0	23.0	23.0
2.5°	23.0	18.1	15.0	13.2	12.8
5°	21.6	13.7	9.7	8.4	7.9
7.5°	19.4	10.2	6.6	5.3	4.9
10°	16.8	7.5	4.4	3.1	3.1
12.5°	14.1	5.7	2.6	1.3	0.9
15°	11.5	3.5	0.9	0.4	0.4
17.5°	8.8	2.2	0.0	0.0	0.0
20°	7.1	0.9	0.0	0.0	0.0
22.5°	5.3	0.4	0.0	0.0	0.0
25°	3.5	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)