

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: P1337839

Luminaire Tested: P3A05R309030DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337839
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: P3A05R309030DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

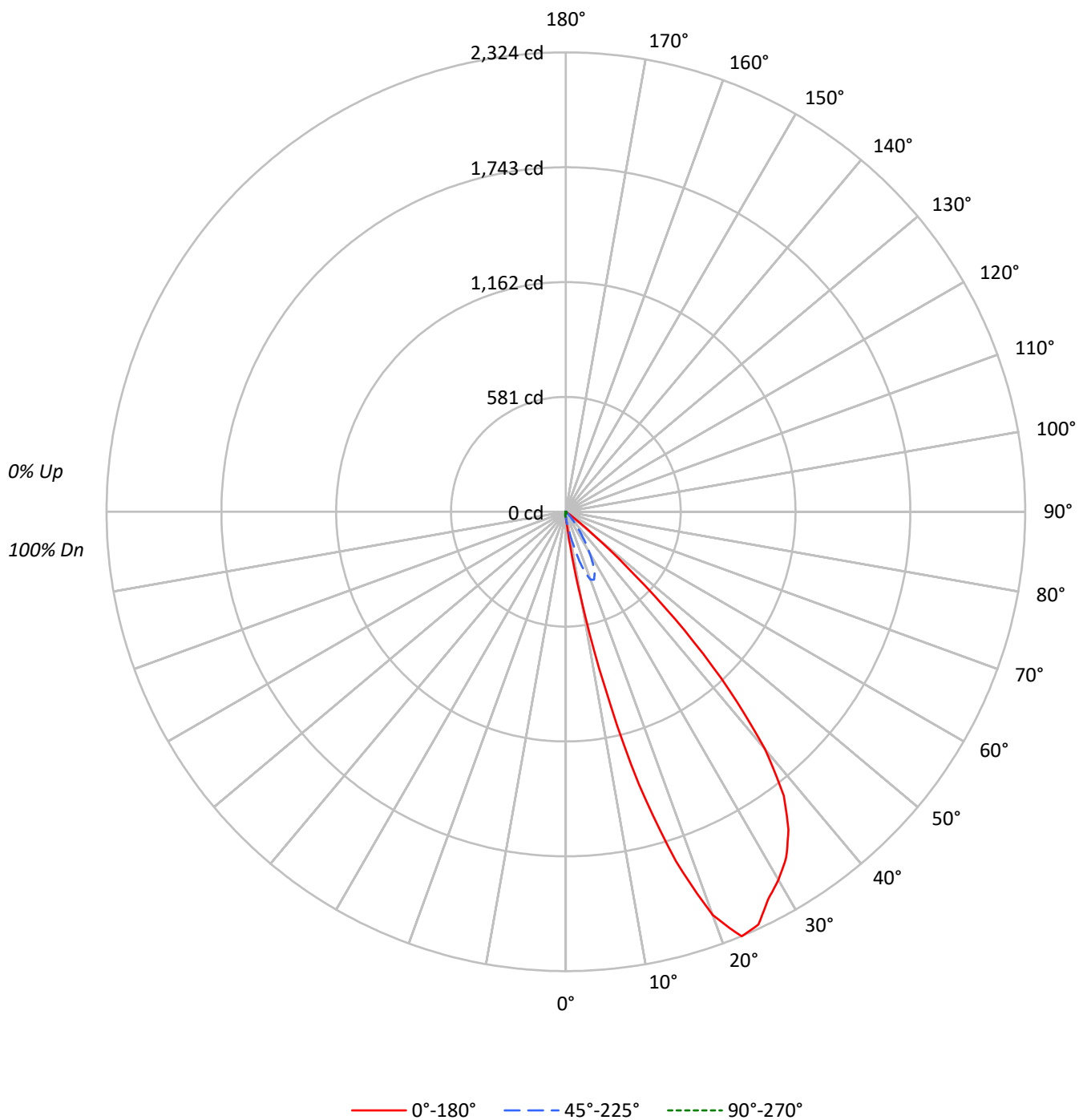
Lumens per Lamp: N/A
Luminaire Lumens: 548.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	5701	5701	5701	5701	5701
5°	17191	11468	5393	2421	1981
10°	99575	24315	4231	1113	779
15°	323861	55142	2951	227	114
20°	506774	85291	1867	0	0
25°	557548	83352	968	0	0
30°	544565	60111	380	0	0
35°	525587	34184	134	0	0
40°	448211	14484	0	0	0
45°	263066	5427	155	0	155
50°	63896	1023	171	171	512
55°	5543	0	382	573	765
60°	219	0	439	658	1096
65°	259	259	778	778	1297
70°	321	321	962	962	1282
75°	0	424	1271	1271	1271
80°	0	631	1894	1263	1263
85°	0	1258	3774	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 263066 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.9
10°-20°	75.3	13.7
20°-30°	191.4	34.9
30°-40°	190.8	34.8
40°-50°	77.3	14.1
50°-60°	5.3	1.0
60°-70°	1.2	0.2
70°-80°	1.2	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°	271.5	49.5
0°-40°	462.3	84.4
0°-60°	544.9	99.4
0°-90°	548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	548.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	78	52	24	11	9	18
15°	1427	243	13	1	0	415
25°	2304	344	4	0	0	1040
35°	1963	128	0	0	0	1204
45°	848	18	0	0	0	647
55°	14	0	1	2	2	38
65°	0	0	2	2	2	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°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
2.5°	43.1	43.6	43.6	42.6	42.1	42.1	40.6	40.1	38.6	37.1	32.0
5°	78.1	76.6	74.6	74.6	70.1	67.6	64.1	60.1	57.1	52.1	37.1
7.5°	177.3	165.2	161.7	157.2	140.2	126.7	111.2	97.6	85.1	74.6	41.1
10°	447.2	423.6	404.1	364.5	315.0	267.4	223.3	172.3	137.2	109.2	44.1
12.5°	900.8	869.3	831.7	759.6	667.0	548.3	443.2	331.0	232.3	160.7	45.1
15°	1426.6	1373.0	1314.5	1222.8	1071.1	900.8	711.1	532.3	373.1	242.9	44.1
17.5°	1855.3	1834.2	1747.6	1622.4	1436.6	1217.3	983.5	739.1	503.3	318.0	41.1
20°	2171.7	2157.2	2052.6	1919.4	1710.0	1458.7	1161.7	868.3	593.9	365.5	36.6
22.5°	2324.5	2322.0	2246.3	2110.1	1888.3	1603.4	1276.4	942.9	621.9	372.1	30.5
25°	2304.4	2313.4	2270.4	2169.2	1956.4	1663.0	1310.5	942.9	601.4	344.5	25.5
27.5°	2213.3	2219.3	2192.3	2114.7	1916.4	1619.9	1262.9	882.3	541.8	295.9	21.0
30°	2150.7	2153.2	2119.7	2036.5	1826.2	1521.8	1150.7	770.1	451.7	237.4	15.5
32.5°	2074.6	2074.1	2035.0	1939.9	1708.0	1384.1	1008.5	636.4	347.0	180.3	9.0
35°	1963.4	1950.9	1897.8	1788.2	1531.8	1198.8	826.7	484.7	249.9	127.7	5.5
37.5°	1810.7	1778.2	1703.0	1556.3	1284.4	939.9	612.9	340.5	170.8	84.6	3.5
40°	1565.8	1531.3	1429.1	1250.9	971.4	676.5	413.1	221.8	107.7	50.6	2.0
42.5°	1227.8	1204.3	1066.6	888.8	641.5	431.6	248.4	131.2	60.6	29.0	0.5
45°	848.3	817.7	709.6	558.8	385.1	239.4	139.2	68.6	34.6	17.5	0.0
47.5°	468.2	430.6	368.0	289.4	193.8	125.7	70.1	37.1	19.5	8.5	0.0
50°	187.3	185.8	147.7	105.2	74.1	57.1	35.1	20.0	10.0	3.0	0.5
52.5°	65.6	65.6	56.6	46.1	36.1	26.0	17.5	9.5	3.5	1.0	0.5
55°	14.5	16.0	15.0	14.0	13.5	11.5	7.5	3.5	1.0	0.0	0.5
57.5°	1.5	1.5	1.5	2.0	2.5	2.5	2.0	1.0	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	1.0
62.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	1.0
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
75°	0.0	0.0	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0
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°	26.0	26.0	26.0	26.0	26.0
2.5°	26.0	20.5	17.0	15.0	14.5
5°	24.5	15.5	11.0	9.5	9.0
7.5°	22.0	11.5	7.5	6.0	5.5
10°	19.0	8.5	5.0	3.5	3.5
12.5°	16.0	6.5	3.0	1.5	1.0
15°	13.0	4.0	1.0	0.5	0.5
17.5°	10.0	2.5	0.0	0.0	0.0
20°	8.0	1.0	0.0	0.0	0.0
22.5°	6.0	0.5	0.0	0.0	0.0
25°	4.0	0.0	0.0	0.0	0.0
27.5°	2.5	0.0	0.0	0.0	0.0
30°	1.5	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	1.0	1.0
50°	0.5	0.5	0.5	1.0	1.5
52.5°	1.0	0.5	1.0	1.5	1.5
55°	1.0	1.0	1.5	2.0	2.0
57.5°	1.0	1.0	1.5	2.0	2.0
60°	1.0	1.0	1.5	2.0	2.5
62.5°	1.5	1.5	1.5	2.0	2.0
65°	1.5	1.5	1.5	2.0	2.5
67.5°	1.5	1.5	1.5	2.0	2.5
70°	1.5	1.5	1.5	2.0	2.0
72.5°	2.0	1.5	1.5	2.0	2.0
75°	1.5	1.5	1.5	1.5	1.5
77.5°	1.5	1.5	1.0	1.5	1.5
80°	1.5	1.0	1.0	1.0	1.0
82.5°	1.5	1.0	1.0	1.0	1.0
85°	1.5	1.0	0.5	0.5	0.5
87.5°	1.5	1.0	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)