

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: P1337825

Luminaire Tested: P3A05R309030D2WDE010 E3CA451MMS

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R309030D2WDE010 E3CA451MMS
Description: 3in Adjustable Dim to Warm LED luminaire with, R30 optic, 3000K CCT AND, 90CRI ,
E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

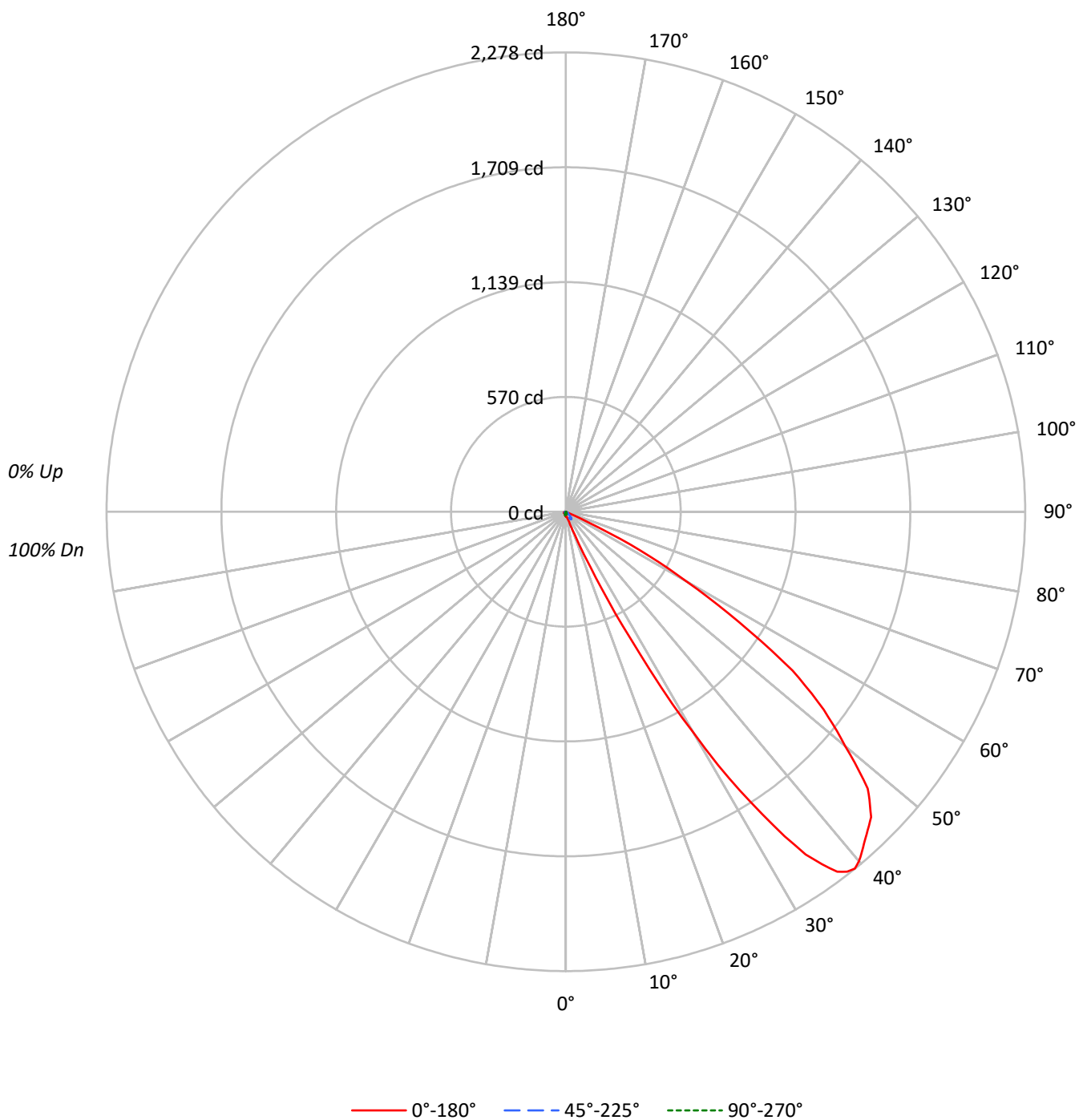
Lumens per Lamp: N/A
Luminaire Lumens: 592.1 lumens
Efficiency: N/A
Efficacy: 53.3 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35	35
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29	29
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24	24
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5022	5022	5022	5022	5022
5°	5371	5261	4931	4490	4380
10°	5878	5210	4320	3897	3785
15°	8604	5199	3632	3292	3405
20°	21655	5694	2800	2800	3150
25°	100506	7113	2178	2540	2903
30°	319948	9850	1646	2405	2912
35°	555194	12019	1338	2275	2945
40°	647499	11994	1002	2290	3006
45°	664038	8497	1085	2481	3256
50°	617532	4776	853	2559	3753
55°	524865	2485	956	2867	4205
60°	303134	658	1096	3070	4605
65°	61848	0	1297	3632	5189
70°	962	321	1603	4167	6091
75°	847	424	1694	4236	7202
80°	631	631	2526	5051	8208
85°	0	1258	5032	5032	10064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 664038 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.3
10°-20°	6.0	1.0
20°-30°	34.1	5.8
30°-40°	159.5	26.9
40°-50°	225.5	38.1
50°-60°	138.7	23.4
60°-70°	21.1	3.6
70°-80°	3.4	0.6
80°-90°	1.7	0.3
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°	42.2	7.1
0°-40°	201.7	34.1
0°-60°	565.9	95.6
0°-90°	592.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	592.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	24	24	22	20	20	2
15°	38	23	16	14	15	14
25°	415	29	9	10	12	256
35°	2074	45	5	8	11	1245
45°	2141	27	4	8	10	1623
55°	1373	6	2	8	11	1168
65°	119	0	2	7	10	216
75°	1	0	2	5	8	1
85°	0	0	2	2	4	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
2.5°	23.4	23.4	23.9	23.9	23.4	23.9	23.9	23.9	22.9	22.4	21.4
5°	24.4	24.4	24.4	24.9	24.4	24.4	23.9	23.4	22.4	20.9	20.4
7.5°	25.4	25.4	24.9	25.4	24.9	24.9	23.9	22.9	21.4	19.9	18.9
10°	26.4	26.4	25.9	25.9	25.4	25.4	23.4	21.9	19.4	18.0	17.5
12.5°	29.4	29.4	28.9	28.4	27.4	26.9	22.9	20.4	17.5	16.0	15.5
15°	37.9	37.4	36.4	34.9	32.4	31.9	22.9	18.9	16.0	14.5	14.5
17.5°	51.9	51.4	49.9	45.9	41.4	39.9	22.9	17.0	14.0	13.0	13.0
20°	92.8	88.8	81.3	71.3	60.8	55.4	24.4	15.0	12.0	11.5	12.0
21°	121.2	117.2	107.7	91.3	72.8	66.8	25.4	14.5	11.5	11.0	12.0
22°	165.1	160.6	141.1	118.7	92.3	81.8	25.9	13.5	10.5	10.5	11.5
23°	230.4	222.9	190.0	154.1	115.2	100.2	26.9	13.0	10.0	10.5	11.0
24°	301.7	295.2	257.8	204.0	147.1	125.7	27.9	12.5	9.5	9.5	10.5
25°	415.4	407.9	341.6	257.3	186.5	151.1	29.4	11.5	9.0	9.0	10.5
26°	562.5	528.1	439.8	331.6	229.9	189.5	30.9	11.0	8.5	9.0	10.0
27°	702.1	673.7	574.5	425.4	284.2	232.9	32.9	10.5	8.0	8.5	10.0
28°	885.6	845.8	720.6	538.1	358.0	281.8	34.9	10.0	7.5	8.5	9.5
29°	1091.1	1035.3	884.2	664.7	441.3	336.6	36.9	9.5	7.0	8.0	9.5
30°	1263.6	1211.3	1060.2	814.8	537.1	408.9	38.9	9.0	6.5	8.0	9.5
31°	1466.1	1386.8	1203.8	942.0	619.4	481.2	40.9	8.0	6.0	7.5	9.0
32°	1630.2	1574.8	1380.3	1085.6	727.6	561.0	42.4	7.5	6.0	7.5	9.0
33°	1788.8	1714.4	1526.4	1223.3	825.3	642.8	43.9	7.0	5.5	7.0	9.0
34°	1940.3	1872.0	1664.6	1334.5	917.6	720.6	44.9	6.0	5.5	7.0	8.5
35°	2074.0	1994.7	1786.3	1443.2	1012.3	791.4	44.9	5.5	5.0	6.5	8.5
36°	2160.8	2103.9	1892.0	1550.4	1098.1	858.7	44.9	5.0	4.5	6.5	8.0
37°	2235.1	2168.7	1976.8	1632.7	1161.4	912.6	44.9	4.5	4.5	6.5	8.0
38°	2265.5	2208.6	2035.1	1705.5	1220.8	967.4	44.4	4.0	4.0	6.0	8.0
39°	2277.5	2226.6	2079.0	1757.8	1264.6	1004.3	43.4	3.5	4.0	6.0	8.0
40°	2262.0	2223.6	2101.4	1791.7	1299.5	1031.3	41.9	3.0	3.5	6.0	8.0
42.5°	2198.2	2172.7	2096.4	1825.7	1329.5	1051.2	36.4	2.0	3.5	5.5	8.0
45°	2141.3	2113.4	2046.1	1790.2	1290.6	1011.8	27.4	1.0	3.5	5.5	8.0
47.5°	2031.1	2013.7	1960.8	1700.0	1205.3	923.0	19.4	0.5	3.0	5.0	7.5
50°	1810.2	1793.7	1723.9	1476.1	1036.7	780.4	14.0	0.5	2.5	5.0	7.5
52.5°	1612.2	1594.8	1494.5	1227.2	796.4	572.0	9.0	0.5	2.5	5.0	7.5
55°	1372.9	1342.4	1210.8	931.5	564.5	383.5	6.5	0.5	2.5	4.5	7.5
57.5°	1016.3	971.9	854.2	635.3	325.1	207.9	3.5	0.5	2.5	4.5	7.5
60°	691.2	664.7	534.6	335.1	138.6	87.8	1.5	0.5	2.5	4.5	7.0
62.5°	418.9	385.5	268.8	142.6	59.8	39.9	0.0	1.0	2.5	4.5	7.0
65°	119.2	105.7	70.3	32.4	17.0	13.0	0.0	1.0	2.5	4.5	7.0
67.5°	4.0	4.0	4.0	3.5	2.5	2.5	0.5	1.0	2.5	4.5	6.5
70°	1.5	1.5	1.5	1.0	1.0	0.5	0.5	1.0	2.5	4.0	6.5
72.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	1.0	2.0	3.5	6.0
75°	1.0	1.0	1.0	0.5	0.5	0.5	0.5	1.5	2.0	3.5	5.0
77.5°	1.0	1.0	1.0	0.5	0.5	0.5	0.5	1.5	2.0	3.0	5.0
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5	2.0	3.0	4.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.5	1.5	2.0	2.0	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	2.0	1.5	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	1.5	1.5	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):

	157.5°	180°
0°	22.9	22.9
2.5°	21.4	21.4
5°	19.9	19.9
7.5°	18.5	18.5
10°	17.0	17.0
12.5°	16.0	16.0
15°	14.5	15.0
17.5°	13.5	14.0
20°	13.0	13.5
21°	13.0	13.5
22°	12.5	13.0
23°	12.5	13.0
24°	12.0	12.5
25°	11.5	12.0
26°	11.5	12.0
27°	11.5	12.0
28°	11.0	12.0
29°	11.0	11.5
30°	11.0	11.5
31°	10.5	11.5
32°	10.5	11.5
33°	10.5	11.0
34°	10.0	11.0
35°	10.0	11.0
36°	10.0	11.0
37°	10.0	10.5
38°	10.0	11.0
39°	10.0	10.5
40°	10.0	10.5
42.5°	10.0	10.5
45°	10.0	10.5
47.5°	10.0	11.0
50°	10.0	11.0
52.5°	10.0	11.0
55°	10.0	11.0
57.5°	10.0	10.5
60°	10.0	10.5
62.5°	9.5	10.5
65°	9.5	10.0
67.5°	9.5	10.0
70°	9.0	9.5
72.5°	8.5	9.0
75°	7.5	8.5
77.5°	7.0	7.5
80°	6.0	6.5



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	5.0	5.0
85°	3.5	4.0
87.5°	2.0	2.0
90°	0.0	0.0

(END OF REPORT)