

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: P1339329

Luminaire Tested: P3A05R459024DE010 E3CA451MMS

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339329
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R459024DE010 E3CA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

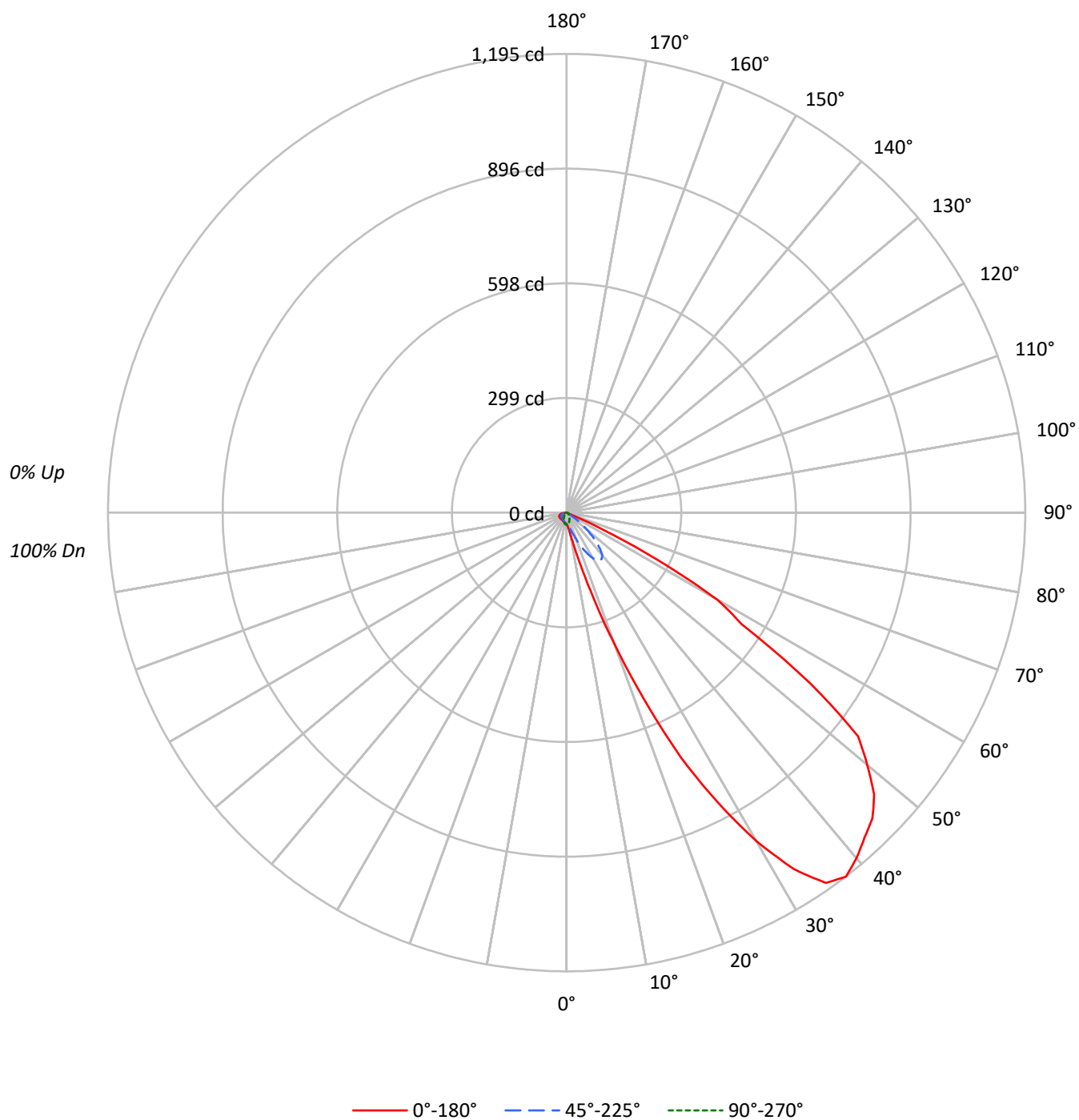
Lumens per Lamp: N/A
Luminaire Lumens: 534.0 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6776	6776	6776	6776	6776
5°	8056	7484	6692	6207	6207
10°	12870	8751	6279	5901	5901
15°	32055	11714	5721	5516	5721
20°	84427	17502	4947	5250	5554
25°	169534	25937	4258	4912	5444
30°	249912	34740	3469	4811	5596
35°	315234	40743	2945	4711	5782
40°	336344	41163	2662	4924	6183
45°	349463	34329	2450	5334	6698
50°	348918	23948	2422	5731	7539
55°	296553	10628	2523	6423	8258
60°	199326	2149	2500	7149	9473
65°	52872	934	2542	7783	10740
70°	1410	1154	2565	8463	12182
75°	1101	1101	2626	8981	13810
80°	1137	1642	2778	9471	15659
85°	1006	2264	4529	10064	15599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 358462 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.6
10°-20°	15.1	2.8
20°-30°	62.1	11.6
30°-40°	130.9	24.5
40°-50°	161.5	30.2
50°-60°	121.1	22.7
60°-70°	31.2	5.8
70°-80°	6.5	1.2
80°-90°	2.6	0.5
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°	80.3	15.0
0°-40°	211.2	39.5
0°-60°	493.8	92.5
0°-90°	534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	534.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	31	31	31	31	31	
5°	37	34	30	28	28	4
15°	141	52	25	24	25	52
25°	701	107	18	20	22	326
35°	1178	152	11	18	22	718
45°	1127	111	8	17	22	862
55°	776	28	7	17	22	670
65°	102	2	5	15	21	147
75°	1	1	3	11	16	2
85°	0	1	2	4	6	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
2.5°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.2	31.8	30.9	30.0
5°	36.6	36.2	36.2	36.2	35.7	35.3	35.3	34.0	32.2	30.4	29.1
7.5°	43.2	43.2	42.8	41.9	41.5	40.6	39.7	36.2	32.2	29.6	27.8
10°	57.8	56.9	55.6	54.7	52.5	49.4	47.2	39.3	31.8	28.2	26.9
12.5°	86.5	88.2	83.8	79.4	73.2	67.5	60.4	44.6	31.8	26.9	25.6
15°	141.2	144.3	135.9	127.1	112.1	98.0	84.7	51.6	30.9	25.2	23.8
17.5°	230.8	234.7	220.6	199.9	176.5	148.3	124.0	61.3	30.0	23.4	22.5
20°	361.8	361.4	334.0	308.0	263.0	221.5	176.1	75.0	28.7	21.2	21.2
22.5°	522.9	524.6	491.1	444.3	380.3	313.7	241.4	90.9	26.9	19.4	19.9
25°	700.7	685.7	646.0	589.0	507.4	415.2	319.9	107.2	25.2	17.6	18.5
27.5°	848.9	834.4	788.9	721.4	633.6	524.2	399.8	123.5	22.9	15.9	17.2
30°	987.0	968.5	913.8	837.5	732.9	614.6	474.8	137.2	20.3	13.7	15.9
32.5°	1100.9	1084.1	1021.9	933.2	819.4	692.3	538.3	147.8	17.6	12.4	15.0
35°	1177.6	1160.4	1103.1	1005.6	881.6	748.8	589.9	152.2	15.4	11.0	14.6
37.5°	1195.3	1186.0	1145.0	1053.7	924.4	785.0	623.0	150.9	12.8	10.1	13.7
40°	1175.0	1177.2	1157.8	1081.9	947.3	800.4	636.7	143.8	10.6	9.3	13.2
42.5°	1149.0	1154.7	1153.4	1093.4	957.0	801.3	631.0	129.7	8.4	8.4	12.8
45°	1126.9	1132.6	1140.6	1088.5	950.4	789.8	612.9	110.7	6.2	7.9	12.8
47.5°	1086.8	1092.9	1104.4	1049.7	916.9	760.2	580.2	90.0	4.4	7.5	12.4
50°	1022.8	1025.9	1022.8	961.4	852.5	712.6	527.3	70.2	3.1	7.1	12.4
52.5°	957.0	950.9	925.3	847.6	750.1	637.1	460.6	49.9	2.2	6.6	11.9
55°	775.7	766.0	747.0	699.4	643.8	544.5	372.4	27.8	2.2	6.6	11.5
57.5°	540.5	545.8	552.4	542.7	517.1	428.9	282.8	12.4	2.2	6.2	11.5
60°	454.5	450.1	450.5	444.3	402.0	312.8	194.6	4.9	2.2	5.7	11.0
62.5°	271.4	274.4	280.2	281.5	239.6	174.7	101.9	2.2	2.2	5.3	10.6
65°	101.9	106.8	93.5	81.2	64.4	47.2	23.8	1.8	2.6	4.9	9.7
67.5°	3.1	3.5	4.4	4.0	4.0	3.5	2.6	1.8	2.6	4.4	9.3
70°	2.2	2.2	2.2	2.2	2.2	1.8	1.8	1.8	2.2	4.0	8.4
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.2	3.5	7.5
75°	1.3	1.8	1.3	1.3	1.3	1.3	1.3	1.3	2.2	3.1	6.2
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8	2.6	5.3
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.8	2.2	4.4
82.5°	0.9	0.9	0.9	0.4	0.9	0.9	0.9	0.9	1.8	1.8	3.5
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3	1.8	2.2
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.9	1.3	1.3	1.3
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):

	135°	157.5°	180°
0°	30.9	30.9	30.9
2.5°	29.1	29.1	29.1
5°	28.2	28.2	28.2
7.5°	27.4	27.4	27.4
10°	26.5	26.5	26.5
12.5°	25.6	25.6	26.0
15°	24.3	25.2	25.2
17.5°	23.4	24.3	24.7
20°	22.5	23.4	23.8
22.5°	21.2	22.5	23.4
25°	20.3	22.1	22.5
27.5°	19.4	21.6	22.5
30°	19.0	21.2	22.1
32.5°	18.1	20.7	21.6
35°	17.6	20.7	21.6
37.5°	17.6	20.3	21.6
40°	17.2	20.3	21.6
42.5°	17.2	20.3	21.6
45°	17.2	20.3	21.6
47.5°	16.8	20.3	22.1
50°	16.8	20.7	22.1
52.5°	16.8	20.7	22.1
55°	16.8	20.7	21.6
57.5°	16.3	20.3	21.6
60°	16.3	20.3	21.6
62.5°	15.4	19.9	21.2
65°	15.0	19.4	20.7
67.5°	14.1	19.0	19.9
70°	13.2	17.6	19.0
72.5°	11.9	16.8	18.1
75°	10.6	15.4	16.3
77.5°	9.3	13.7	14.6
80°	7.5	11.5	12.4
82.5°	5.7	8.8	9.3
85°	4.0	5.7	6.2
87.5°	1.8	2.6	3.1
90°	0.0	0.0	0.0

(END OF REPORT)