

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: P1311221

Luminaire Tested: P3SQAS09R609050DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R609050DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 5000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

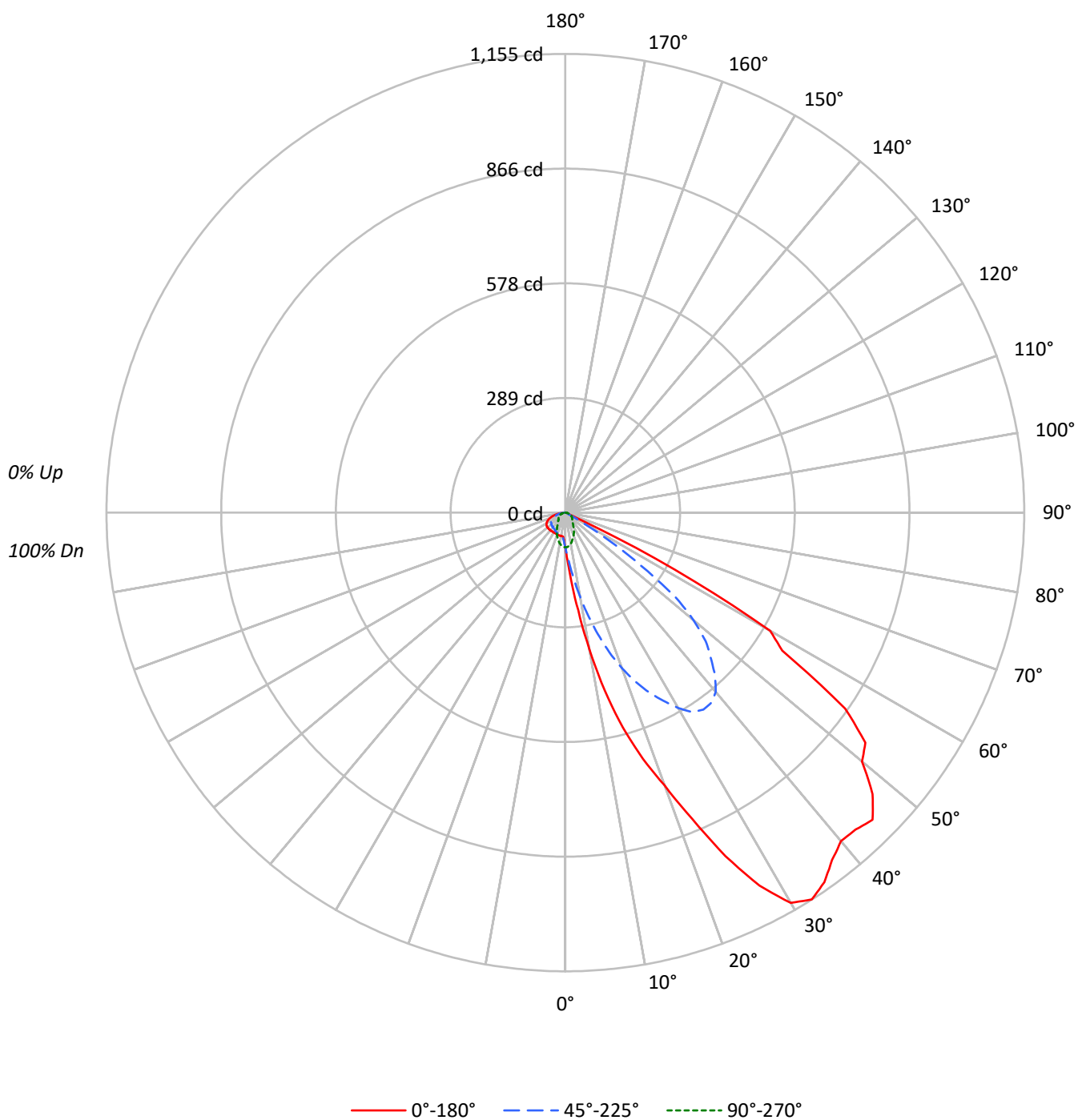
Lumens per Lamp: N/A
Luminaire Lumens: 879.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15001	15001	15001	15001	15001
5°	29563	23062	14781	11185	10632
10°	61068	37582	13833	10195	10335
15°	99865	56413	12392	10252	10537
20°	133993	76444	11125	10245	10685
25°	181285	94899	9710	10166	11079
30°	225633	112976	8114	10162	11594
35°	238880	127345	6896	10407	12089
40°	242694	132397	6295	10769	13107
45°	266430	126115	6040	11472	14200
50°	261179	113040	6002	12191	15620
55°	258134	69330	6005	13181	17265
60°	204773	16499	6338	14053	18703
65°	13040	2934	6194	14344	20172
70°	2820	3223	6043	14905	21300
75°	2662	3194	5323	14373	21826
80°	2380	3174	5554	14282	20629
85°	1581	3162	6323	12647	20551

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 281209 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.9	1.2
10°-20°	54.8	6.2
20°-30°	127.1	14.5
30°-40°	197.6	22.5
40°-50°	225.1	25.6
50°-60°	189.6	21.6
60°-70°	55.0	6.3
70°-80°	14.1	1.6
80°-90°	4.8	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°	192.8	21.9
0°-40°	390.3	44.4
0°-60°	805.1	91.6
0°-90°	879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	879.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	87	87	87	87	87	
5°	171	133	86	65	62	22
15°	560	316	70	58	59	162
25°	954	499	51	54	58	443
35°	1136	606	33	50	58	706
45°	1094	518	25	47	58	822
55°	860	231	20	44	58	723
65°	32	7	15	35	50	158
75°	4	5	8	22	33	4
85°	1	2	3	6	10	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
2.5°	117.5	116.7	116.7	115.9	115.1	114.3	111.9	111.1	106.3	96.7	87.1
5°	171.0	170.2	167.8	167.0	163.0	157.4	151.8	146.2	133.4	106.3	85.5
7.5°	247.7	249.3	247.7	238.9	233.3	224.5	207.7	195.8	170.2	115.9	82.3
10°	349.2	349.2	346.8	333.2	321.2	304.4	282.9	262.1	214.9	124.6	79.1
12.5°	459.4	461.8	449.8	438.7	417.1	396.3	366.8	335.6	266.1	131.8	75.1
15°	560.1	558.5	546.5	532.1	509.8	481.0	449.8	409.9	316.4	136.6	69.5
17.5°	649.6	646.4	636.0	620.0	592.9	560.9	521.0	477.8	368.3	140.6	65.5
20°	731.1	719.9	707.9	691.2	664.8	631.2	589.7	540.9	417.1	140.6	60.7
22.5°	834.2	823.0	806.2	780.6	745.5	703.9	655.2	600.1	460.2	137.4	55.9
25°	954.0	945.2	916.5	883.7	838.2	788.6	731.9	657.6	499.4	132.6	51.1
27.5°	1058.7	1049.1	1020.4	972.4	917.3	858.2	798.2	722.3	533.7	123.8	45.5
30°	1134.6	1122.6	1100.3	1054.7	987.6	915.7	844.6	771.9	568.1	113.5	40.8
32.5°	1154.6	1153.0	1136.2	1102.7	1042.7	963.6	878.9	799.8	595.3	99.9	36.8
35°	1136.2	1138.6	1135.4	1118.6	1074.7	997.2	901.3	815.0	605.7	86.3	32.8
37.5°	1102.7	1105.8	1111.4	1113.8	1085.9	1017.2	914.1	821.4	603.3	72.7	30.4
40°	1079.5	1077.9	1077.9	1093.9	1088.3	1025.9	915.7	816.6	588.9	58.3	28.0
42.5°	1081.9	1064.3	1052.3	1077.9	1085.9	1021.9	905.3	803.8	557.7	44.7	25.6
45°	1093.9	1056.3	1035.5	1068.3	1081.1	1008.4	886.1	784.6	517.8	31.2	24.8
47.5°	1049.1	1024.3	1021.2	1067.5	1072.3	985.2	856.6	754.3	479.4	21.6	23.2
50°	974.8	970.8	987.6	1035.5	1036.3	946.8	823.0	699.1	421.9	15.2	22.4
52.5°	951.6	954.0	969.2	994.0	970.8	882.1	762.3	652.8	349.2	12.0	21.6
55°	859.7	863.7	878.1	893.3	876.5	803.0	688.8	596.9	230.9	11.2	20.0
57.5°	647.2	657.6	684.0	697.5	699.1	654.4	624.0	514.6	130.2	11.2	19.2
60°	594.5	580.9	568.9	540.9	515.4	509.8	513.0	385.9	47.9	10.4	18.4
62.5°	310.8	304.4	322.8	334.8	338.0	355.6	332.4	203.8	10.4	10.4	16.8
65°	32.0	32.0	39.2	51.9	86.3	115.1	109.5	59.1	7.2	9.6	15.2
67.5°	9.6	9.6	9.6	11.2	14.4	14.4	12.0	8.8	7.2	8.8	13.6
70°	5.6	5.6	5.6	5.6	5.6	5.6	6.4	5.6	6.4	8.0	12.0
72.5°	4.8	4.8	4.8	4.8	5.6	5.6	5.6	5.6	5.6	7.2	10.4
75°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.8	4.8	5.6	8.0
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	4.0	4.0	4.0	4.8	6.4
80°	2.4	2.4	2.4	2.4	2.4	3.2	3.2	3.2	3.2	4.0	5.6
82.5°	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	3.2	4.0
85°	0.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	3.2
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.4
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):

	112.5°	135°	157.5°	180°
0°	87.1	87.1	87.1	87.1
2.5°	79.1	73.5	70.3	68.7
5°	71.9	64.7	62.3	61.5
7.5°	65.5	60.7	59.9	59.9
10°	61.5	58.3	59.1	59.1
12.5°	59.1	58.3	59.1	59.9
15°	56.7	57.5	59.1	59.1
17.5°	55.1	56.7	58.3	59.1
20°	52.7	55.9	58.3	58.3
22.5°	51.1	55.1	57.5	58.3
25°	49.5	53.5	56.7	58.3
27.5°	47.1	52.7	56.7	57.5
30°	44.7	51.1	55.9	58.3
32.5°	42.3	50.3	55.9	57.5
35°	40.8	49.5	55.9	57.5
37.5°	39.2	48.7	55.9	58.3
40°	38.4	47.9	55.1	58.3
42.5°	36.8	47.9	55.1	58.3
45°	36.0	47.1	55.1	58.3
47.5°	35.2	46.3	55.1	58.3
50°	33.6	45.5	54.3	58.3
52.5°	32.8	44.7	54.3	58.3
55°	31.2	43.9	53.5	57.5
57.5°	30.4	42.3	52.7	55.9
60°	28.8	40.8	51.1	54.3
62.5°	26.4	38.4	48.7	52.7
65°	24.0	35.2	46.3	49.5
67.5°	21.6	32.8	43.1	46.3
70°	19.2	29.6	39.2	42.3
72.5°	16.8	25.6	35.2	37.6
75°	14.4	21.6	29.6	32.8
77.5°	11.2	17.6	24.8	27.2
80°	8.8	14.4	19.2	20.8
82.5°	7.2	10.4	14.4	15.2
85°	4.8	6.4	8.8	10.4
87.5°	2.4	3.2	4.0	4.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)