

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: P1310144

Luminaire Tested: P3SQAS09R609040DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310144
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: P3SQAS09R609040DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

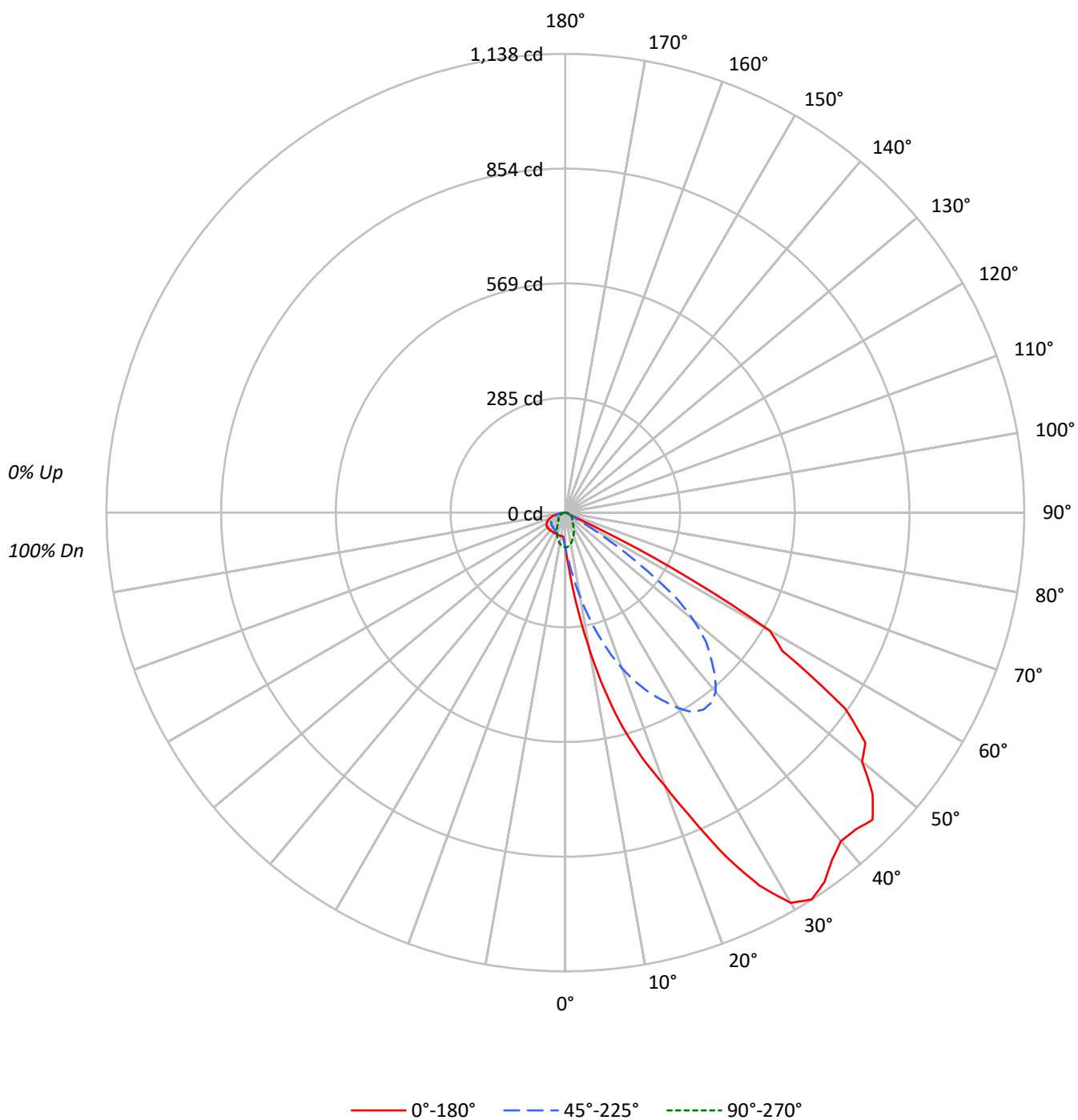
Lumens per Lamp: N/A
Luminaire Lumens: 866.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14777	14777	14777	14777	14777
5°	29130	22734	14557	11030	10477
10°	60159	37039	13623	10056	10195
15°	98385	55575	12213	10109	10395
20°	132013	75308	10960	10098	10538
25°	178606	93493	9577	10014	10927
30°	222292	111305	7975	10023	11435
35°	235348	125453	6791	10260	11921
40°	239097	130441	6205	10612	12927
45°	262484	124240	5943	11301	14005
50°	257321	111352	5894	12030	15406
55°	254321	68309	5915	13001	17025
60°	201742	16258	6234	13812	18428
65°	12837	2893	6113	14100	19887
70°	2769	3172	5942	14653	20998
75°	2595	3127	5257	14173	21493
80°	2380	3075	5455	14083	20332
85°	1581	3162	6126	12449	20156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 277050 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.7	1.2
10°-20°	54.0	6.2
20°-30°	125.2	14.5
30°-40°	194.7	22.5
40°-50°	221.8	25.6
50°-60°	186.8	21.6
60°-70°	54.2	6.3
70°-80°	13.9	1.6
80°-90°	4.7	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°	189.9	21.9
0°-40°	384.6	44.4
0°-60°	793.2	91.6
0°-90°	866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	866.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	86	86	86	86	86	
5°	168	132	84	64	61	22
15°	552	312	68	57	58	160
25°	940	492	50	53	58	437
35°	1119	597	32	49	57	695
45°	1078	510	24	46	58	810
55°	847	228	20	43	57	713
65°	32	7	15	35	49	156
75°	4	5	8	21	32	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°	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
2.5°	115.7	114.9	114.9	114.1	113.4	112.6	110.2	109.4	104.7	95.3	85.8
5°	168.5	167.7	165.3	164.5	160.6	155.1	149.6	144.1	131.5	104.7	84.2
7.5°	244.0	245.6	244.0	235.4	229.9	221.2	204.7	192.9	167.7	114.1	81.1
10°	344.0	344.0	341.6	328.3	316.5	299.9	278.7	258.2	211.8	122.8	77.9
12.5°	452.6	455.0	443.2	432.2	410.9	390.5	361.3	330.6	262.1	129.9	74.0
15°	551.8	550.3	538.4	524.3	502.2	473.9	443.2	403.8	311.7	134.6	68.5
17.5°	640.0	636.8	626.6	610.9	584.1	552.6	513.3	470.7	362.9	138.5	64.6
20°	720.3	709.3	697.5	680.9	655.0	621.9	581.0	532.9	410.9	138.5	59.8
22.5°	821.8	810.8	794.3	769.1	734.5	693.5	645.5	591.2	453.4	135.4	55.1
25°	939.9	931.3	902.9	870.6	825.8	777.0	721.1	647.9	492.0	130.7	50.4
27.5°	1043.0	1033.6	1005.3	958.0	903.7	845.5	786.4	711.6	525.9	122.0	44.9
30°	1117.8	1106.0	1084.0	1039.1	973.0	902.1	832.1	760.4	559.7	111.8	40.1
32.5°	1137.5	1135.9	1119.4	1086.3	1027.3	949.4	865.9	788.0	586.5	98.4	36.2
35°	1119.4	1121.8	1118.6	1102.1	1058.8	982.4	888.0	802.9	596.7	85.0	32.3
37.5°	1086.3	1089.5	1095.0	1097.4	1069.8	1002.1	900.6	809.2	594.3	71.6	29.9
40°	1063.5	1061.9	1061.9	1077.7	1072.2	1010.8	902.1	804.5	580.2	57.5	27.6
42.5°	1065.9	1048.6	1036.7	1061.9	1069.8	1006.8	891.9	791.9	549.5	44.1	25.2
45°	1077.7	1040.7	1020.2	1052.5	1065.1	993.5	873.0	773.0	510.1	30.7	24.4
47.5°	1033.6	1009.2	1006.0	1051.7	1056.4	970.6	843.9	743.1	472.3	21.3	22.8
50°	960.4	956.5	973.0	1020.2	1021.0	932.8	810.8	688.8	415.6	15.0	22.0
52.5°	937.6	939.9	954.9	979.3	956.5	869.1	751.0	643.1	344.0	11.8	21.3
55°	847.0	851.0	865.1	880.1	863.6	791.1	678.6	588.0	227.5	11.0	19.7
57.5°	637.6	647.9	673.8	687.2	688.8	644.7	614.8	507.0	128.3	11.0	18.9
60°	585.7	572.3	560.5	532.9	507.7	502.2	505.4	380.2	47.2	10.2	18.1
62.5°	306.2	299.9	318.0	329.8	333.0	350.3	327.5	200.7	10.2	10.2	16.5
65°	31.5	31.5	38.6	51.2	85.0	113.4	107.8	58.3	7.1	9.4	15.0
67.5°	9.4	9.4	9.4	11.0	14.2	14.2	11.8	8.7	7.1	8.7	13.4
70°	5.5	5.5	5.5	5.5	5.5	5.5	6.3	5.5	6.3	7.9	11.8
72.5°	4.7	4.7	4.7	4.7	5.5	5.5	5.5	5.5	5.5	7.1	10.2
75°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.7	4.7	5.5	7.9
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.9	3.9	3.9	4.7	6.3
80°	2.4	2.4	2.4	2.4	2.4	3.1	3.1	3.1	3.1	3.9	5.5
82.5°	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	3.1	3.9
85°	0.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	3.1
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°	85.8	85.8	85.8	85.8
2.5°	77.9	72.4	69.3	67.7
5°	70.8	63.8	61.4	60.6
7.5°	64.6	59.8	59.0	59.0
10°	60.6	57.5	58.3	58.3
12.5°	58.3	57.5	58.3	59.0
15°	55.9	56.7	58.3	58.3
17.5°	54.3	55.9	57.5	58.3
20°	52.0	55.1	57.5	57.5
22.5°	50.4	54.3	56.7	57.5
25°	48.8	52.7	55.9	57.5
27.5°	46.4	52.0	55.9	56.7
30°	44.1	50.4	55.1	57.5
32.5°	41.7	49.6	55.1	56.7
35°	40.1	48.8	55.1	56.7
37.5°	38.6	48.0	55.1	57.5
40°	37.8	47.2	54.3	57.5
42.5°	36.2	47.2	54.3	57.5
45°	35.4	46.4	54.3	57.5
47.5°	34.6	45.7	54.3	57.5
50°	33.1	44.9	53.5	57.5
52.5°	32.3	44.1	53.5	57.5
55°	30.7	43.3	52.7	56.7
57.5°	29.9	41.7	52.0	55.1
60°	28.3	40.1	50.4	53.5
62.5°	26.0	37.8	48.0	52.0
65°	23.6	34.6	45.7	48.8
67.5°	21.3	32.3	42.5	45.7
70°	18.9	29.1	38.6	41.7
72.5°	16.5	25.2	34.6	37.0
75°	14.2	21.3	29.1	32.3
77.5°	11.0	17.3	24.4	26.8
80°	8.7	14.2	18.9	20.5
82.5°	7.1	10.2	14.2	15.0
85°	4.7	6.3	8.7	10.2
87.5°	2.4	3.1	3.9	4.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)