

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: P1310151

Luminaire Tested: P3SQAS09R659040DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R659040DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

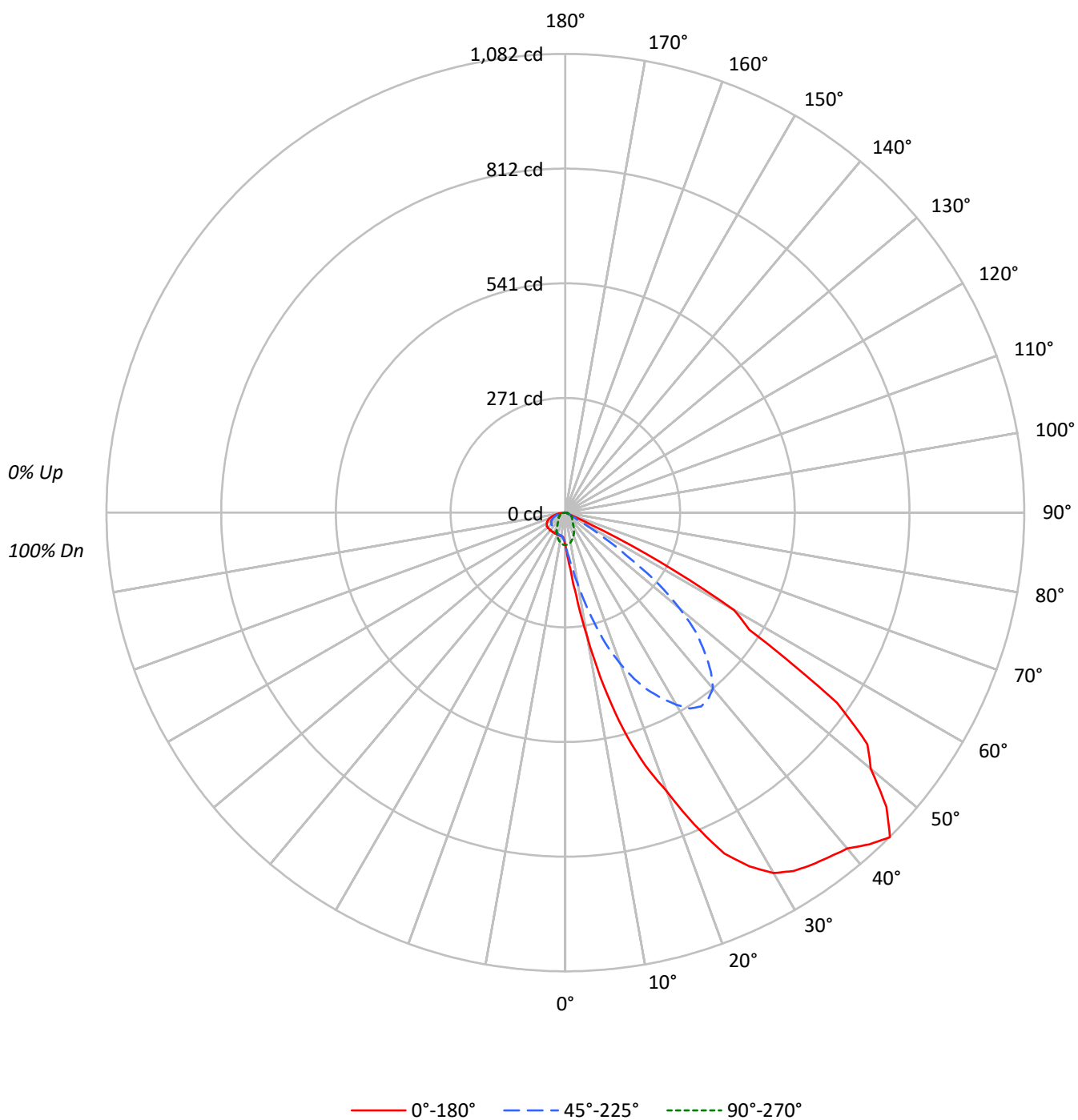
Lumens per Lamp: N/A
Luminaire Lumens: 785.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1310151

CATALOG NUMBER: P3SQAS09R659040DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1310151

CATALOG NUMBER: P3SQAS09R659040DE010 E3SQCA451MMS

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	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13141	13141	13141	13141	13141
5°	22993	18775	12931	10477	10062
10°	52027	30289	12381	9636	9776
15°	94587	48693	11500	9682	9967
20°	128238	69535	10392	9659	10098
25°	168573	87792	9121	9425	10318
30°	195187	104086	7835	9386	10798
35°	213146	117317	6623	9608	11416
40°	232510	121740	5845	10094	12208
45°	263605	112914	5553	10741	13225
50°	251801	94258	5493	11387	14549
55°	234684	52936	5675	12281	16064
60°	158066	11401	5683	13020	17360
65°	24369	2893	5461	13489	18909
70°	2769	2769	5136	13847	20192
75°	2595	2595	4724	13641	20428
80°	2380	3075	4661	12497	20332
85°	1581	3162	4742	12449	18575

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 263605 cd/sqm

TEST NUMBER: P1310151

CATALOG NUMBER: P3SQAS09R659040DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	1.2
10°-20°	49.9	6.4
20°-30°	117.3	14.9
30°-40°	177.2	22.6
40°-50°	203.7	25.9
50°-60°	161.7	20.6
60°-70°	48.4	6.2
70°-80°	13.2	1.7
80°-90°	4.4	0.6
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°	176.4	22.5
0°-40°	353.6	45.0
0°-60°	719.0	91.6
0°-90°	785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	785.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	76	76	76	76	76	
5°	133	109	75	61	58	18
15°	530	273	64	54	56	153
25°	887	462	48	50	54	405
35°	1014	558	32	46	54	636
45°	1082	464	23	44	54	804
55°	782	176	19	41	54	644
65°	60	7	13	33	46	134
75°	4	4	7	20	31	4
85°	1	2	2	6	9	1
90°	0	0	0	0	0	

TEST NUMBER: P1310151

CATALOG NUMBER: P3SQAS09R659040DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
2.5°	96.8	97.6	96.8	96.8	96.0	95.2	89.7	83.4	76.3	70.8	66.9
5°	133.0	133.8	131.4	131.4	129.9	127.5	108.6	90.5	74.8	66.1	60.6
7.5°	196.8	199.9	196.0	191.3	182.6	181.0	135.4	97.6	73.2	61.4	56.7
10°	297.5	295.2	291.2	281.8	266.8	259.7	173.2	104.7	70.8	58.2	55.1
12.5°	419.5	413.2	408.5	391.2	370.7	358.9	220.4	111.0	67.7	55.1	54.3
15°	530.5	525.8	514.8	498.2	473.0	463.6	273.1	114.9	64.5	52.7	54.3
17.5°	624.2	619.4	613.1	596.6	570.6	556.5	332.2	117.3	60.6	51.2	53.5
20°	699.7	696.6	687.9	674.5	648.6	635.2	379.4	117.3	56.7	49.6	52.7
22.5°	797.3	790.2	779.2	759.5	727.3	706.8	424.2	114.9	52.7	48.0	51.2
25°	887.1	882.3	868.2	844.5	809.9	789.5	462.0	110.2	48.0	45.7	49.6
27.5°	940.6	937.4	924.0	899.6	861.1	845.3	493.5	103.1	43.3	43.3	48.8
30°	981.5	975.2	961.8	938.2	898.9	880.0	523.4	94.5	39.4	40.9	47.2
32.5°	1002.0	999.6	987.8	967.3	928.8	907.5	547.8	83.4	34.6	39.4	46.4
35°	1013.8	1011.4	1002.0	982.3	946.1	925.6	558.0	73.2	31.5	37.8	45.7
37.5°	1023.2	1020.9	1009.1	989.4	953.2	931.9	553.3	62.2	28.3	36.2	44.9
40°	1034.2	1025.6	1007.5	987.8	954.7	934.3	541.5	51.9	26.0	35.4	44.9
42.5°	1061.0	1031.1	1002.8	984.7	953.2	929.6	507.7	40.9	23.6	33.8	44.1
45°	1082.3	1029.5	993.3	979.1	946.9	920.1	463.6	29.9	22.8	33.1	44.1
47.5°	1026.4	994.1	977.6	969.7	935.1	905.9	417.9	20.5	22.0	32.3	43.3
50°	939.8	935.9	929.6	930.3	898.9	875.2	351.8	14.2	20.5	31.5	42.5
52.5°	898.1	893.3	882.3	874.5	843.0	822.5	278.6	11.0	19.7	30.7	41.7
55°	781.6	784.7	772.9	777.6	768.2	758.0	176.3	10.2	18.9	29.1	40.9
57.5°	514.8	530.5	558.0	591.1	621.0	641.5	95.2	10.2	17.3	28.3	39.4
60°	458.9	454.9	454.2	460.4	473.8	484.8	33.1	9.4	16.5	26.0	37.8
62.5°	251.1	249.5	273.1	313.3	336.9	339.2	9.4	9.4	15.0	24.4	35.4
65°	59.8	62.2	69.3	86.6	102.3	112.6	7.1	8.7	13.4	22.8	33.1
67.5°	9.4	10.2	10.2	12.6	14.2	14.2	6.3	7.9	11.8	20.5	30.7
70°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.1	10.2	18.1	27.5
72.5°	4.7	4.7	4.7	4.7	4.7	4.7	5.5	6.3	8.7	15.7	23.6
75°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.5	7.1	12.6	20.5
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.9	4.7	6.3	10.2	16.5
80°	2.4	2.4	2.4	2.4	2.4	2.4	3.1	3.9	4.7	7.9	12.6
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	2.4	3.1	3.9	6.3	9.4
85°	0.8	0.8	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.9	6.3
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	2.4	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1310151

CATALOG NUMBER: P3SQAS09R659040DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	76.3	76.3
2.5°	64.5	63.8
5°	58.2	58.2
7.5°	55.9	55.9
10°	55.1	55.9
12.5°	55.1	55.9
15°	55.1	55.9
17.5°	55.1	55.9
20°	54.3	55.1
22.5°	53.5	54.3
25°	52.7	54.3
27.5°	51.9	54.3
30°	51.9	54.3
32.5°	51.9	54.3
35°	51.2	54.3
37.5°	51.2	54.3
40°	51.2	54.3
42.5°	51.2	54.3
45°	51.2	54.3
47.5°	51.2	54.3
50°	51.2	54.3
52.5°	50.4	54.3
55°	50.4	53.5
57.5°	48.8	51.9
60°	47.2	50.4
62.5°	45.7	48.8
65°	43.3	46.4
67.5°	40.9	43.3
70°	37.0	40.1
72.5°	33.1	35.4
75°	28.3	30.7
77.5°	23.6	26.0
80°	18.9	20.5
82.5°	13.4	15.0
85°	8.7	9.4
87.5°	3.9	3.9
90°	0.0	0.0

(END OF REPORT)