

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: P1311228

Luminaire Tested: P3SQAS09R659050DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311228
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: P3SQAS09R659050DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 5000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

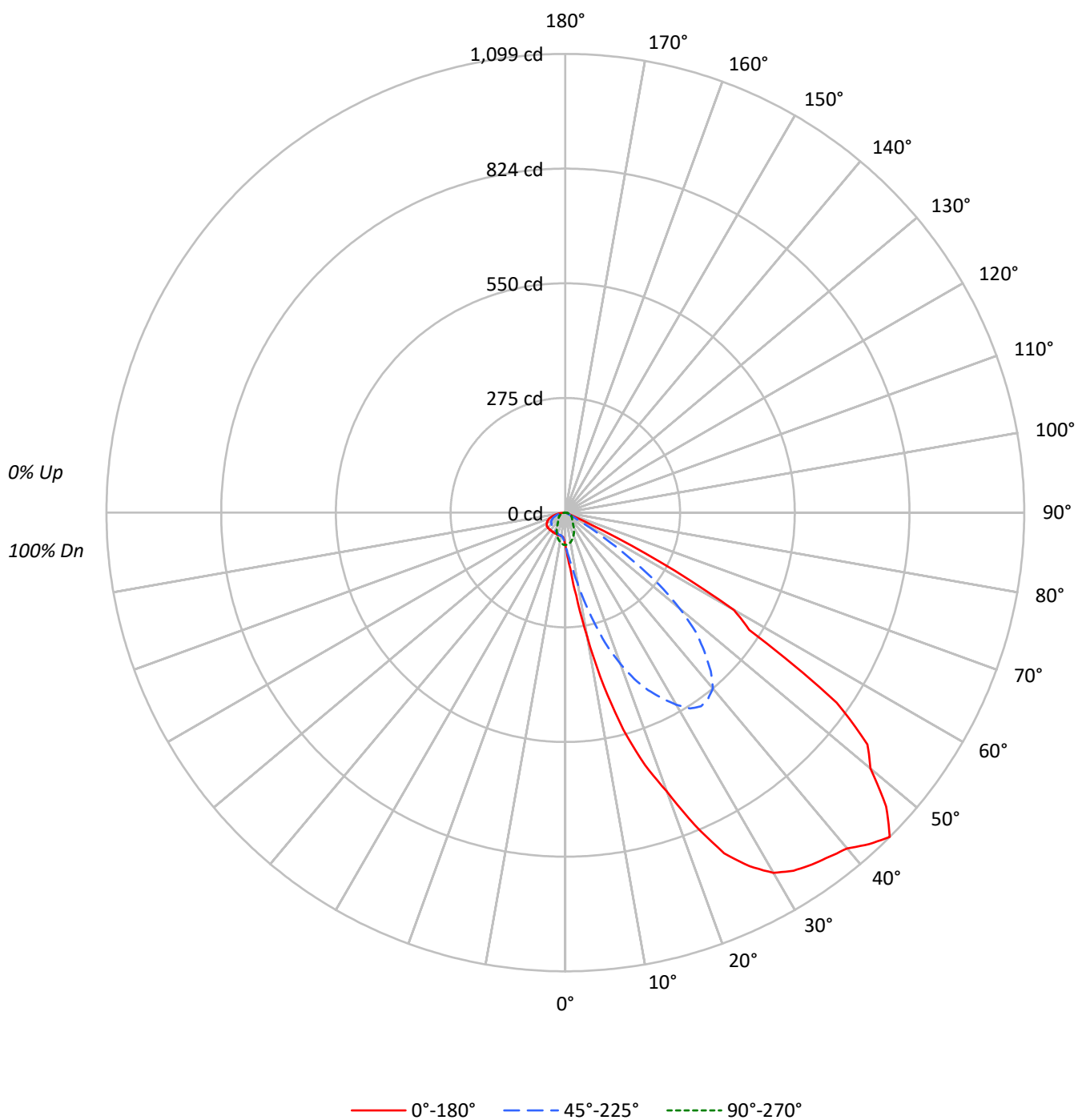
Lumens per Lamp: N/A
Luminaire Lumens: 797.0 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1311228

CATALOG NUMBER: P3SQAS09R659050DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1311228

CATALOG NUMBER: P3SQAS09R659050DE010 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	64	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°	13347	13347	13347	13347	13347
5°	23356	19069	13122	10632	10217
10°	52831	30744	12574	9776	9916
15°	96031	49442	11679	9824	10109
20°	130199	70598	10538	9805	10245
25°	171138	89142	9254	9558	10470
30°	198170	105677	7955	9526	10957
35°	216405	119125	6728	9734	11585
40°	236062	123606	5935	10252	12388
45°	267623	114644	5651	10911	13420
50°	255660	95705	5573	11575	14763
55°	238257	53747	5765	12491	16304
60°	160477	11573	5787	13227	17601
65°	24736	2934	5542	13692	19194
70°	2820	2820	5237	14099	20545
75°	2662	2662	4791	13841	20761
80°	2380	3174	4761	12695	20629
85°	1581	3162	4742	12647	18970

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 267623 cd/sqm

TEST NUMBER: P1311228

CATALOG NUMBER: P3SQAS09R659050DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	1.2
10°-20°	50.7	6.4
20°-30°	119.1	14.9
30°-40°	179.9	22.6
40°-50°	206.8	25.9
50°-60°	164.2	20.6
60°-70°	49.2	6.2
70°-80°	13.4	1.7
80°-90°	4.5	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°	179.1	22.5
0°-40°	359.0	45.0
0°-60°	730.0	91.6
0°-90°	797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	797.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	78	78	78	78	78	
5°	135	110	76	62	59	18
15°	539	277	66	55	57	155
25°	901	469	49	50	55	411
35°	1029	567	32	46	55	646
45°	1099	471	23	45	55	816
55°	794	179	19	42	54	654
65°	61	7	14	34	47	136
75°	4	4	7	21	31	4
85°	1	2	2	6	10	1
90°	0	0	0	0	0	

TEST NUMBER: P1311228

CATALOG NUMBER: P3SQAS09R659050DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
2.5°	98.3	99.1	98.3	98.3	97.5	96.7	91.1	84.7	77.5	71.9	67.9
5°	135.1	135.9	133.5	133.5	131.9	129.5	110.3	91.9	75.9	67.1	61.5
7.5°	199.8	203.0	199.0	194.2	185.4	183.8	137.4	99.1	74.3	62.3	57.5
10°	302.1	299.7	295.7	286.1	270.9	263.7	175.8	106.3	71.9	59.1	55.9
12.5°	425.9	419.5	414.7	397.2	376.4	364.4	223.8	112.7	68.7	55.9	55.1
15°	538.6	533.8	522.6	505.8	480.3	470.7	277.3	116.7	65.5	53.5	55.1
17.5°	633.7	628.9	622.5	605.7	579.4	565.0	337.2	119.1	61.5	51.9	54.3
20°	710.4	707.2	698.4	684.8	658.5	644.9	385.2	119.1	57.5	50.3	53.5
22.5°	809.5	802.3	791.1	771.2	738.4	717.6	430.7	116.7	53.5	48.7	51.9
25°	900.6	895.8	881.4	857.5	822.3	801.5	469.1	111.9	48.7	46.3	50.3
27.5°	955.0	951.8	938.2	913.4	874.2	858.3	501.1	104.7	44.0	44.0	49.5
30°	996.5	990.1	976.5	952.6	912.6	893.4	531.4	95.9	40.0	41.6	47.9
32.5°	1017.3	1014.9	1002.9	982.1	943.0	921.4	556.2	84.7	35.2	40.0	47.1
35°	1029.3	1026.9	1017.3	997.3	960.5	939.8	566.6	74.3	32.0	38.4	46.3
37.5°	1038.9	1036.5	1024.5	1004.5	967.7	946.2	561.8	63.1	28.8	36.8	45.6
40°	1050.0	1041.3	1022.9	1002.9	969.3	948.6	549.8	52.7	26.4	36.0	45.6
42.5°	1077.2	1046.9	1018.1	999.7	967.7	943.8	515.4	41.6	24.0	34.4	44.8
45°	1098.8	1045.3	1008.5	994.1	961.3	934.2	470.7	30.4	23.2	33.6	44.8
47.5°	1042.1	1009.3	992.5	984.5	949.4	919.8	424.3	20.8	22.4	32.8	44.0
50°	954.2	950.2	943.8	944.6	912.6	888.6	357.2	14.4	20.8	32.0	43.2
52.5°	911.8	907.0	895.8	887.8	855.9	835.1	282.9	11.2	20.0	31.2	42.4
55°	793.5	796.7	784.7	789.5	779.9	769.6	179.0	10.4	19.2	29.6	41.6
57.5°	522.6	538.6	566.6	600.1	630.5	651.3	96.7	10.4	17.6	28.8	40.0
60°	465.9	461.9	461.1	467.5	481.1	492.3	33.6	9.6	16.8	26.4	38.4
62.5°	254.9	253.3	277.3	318.1	342.0	344.4	9.6	9.6	15.2	24.8	36.0
65°	60.7	63.1	70.3	87.9	103.9	114.3	7.2	8.8	13.6	23.2	33.6
67.5°	9.6	10.4	10.4	12.8	14.4	14.4	6.4	8.0	12.0	20.8	31.2
70°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	7.2	10.4	18.4	28.0
72.5°	4.8	4.8	4.8	4.8	4.8	4.8	5.6	6.4	8.8	16.0	24.0
75°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.6	7.2	12.8	20.8
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	4.0	4.8	6.4	10.4	16.8
80°	2.4	2.4	2.4	2.4	2.4	2.4	3.2	4.0	4.8	8.0	12.8
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	2.4	3.2	4.0	6.4	9.6
85°	0.8	0.8	0.8	0.8	1.6	1.6	1.6	2.4	2.4	4.0	6.4
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	2.4	3.2
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: P1311228

CATALOG NUMBER: P3SQAS09R659050DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	77.5	77.5
2.5°	65.5	64.7
5°	59.1	59.1
7.5°	56.7	56.7
10°	55.9	56.7
12.5°	55.9	56.7
15°	55.9	56.7
17.5°	55.9	56.7
20°	55.1	55.9
22.5°	54.3	55.1
25°	53.5	55.1
27.5°	52.7	55.1
30°	52.7	55.1
32.5°	52.7	55.1
35°	51.9	55.1
37.5°	51.9	55.1
40°	51.9	55.1
42.5°	51.9	55.1
45°	51.9	55.1
47.5°	51.9	55.1
50°	51.9	55.1
52.5°	51.1	55.1
55°	51.1	54.3
57.5°	49.5	52.7
60°	47.9	51.1
62.5°	46.3	49.5
65°	44.0	47.1
67.5°	41.6	44.0
70°	37.6	40.8
72.5°	33.6	36.0
75°	28.8	31.2
77.5°	24.0	26.4
80°	19.2	20.8
82.5°	13.6	15.2
85°	8.8	9.6
87.5°	4.0	4.0
90°	0.0	0.0

(END OF REPORT)