

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: P1307909

Luminaire Tested: P3SQAS09R609030DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307909
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: P3SQAS09R609030DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

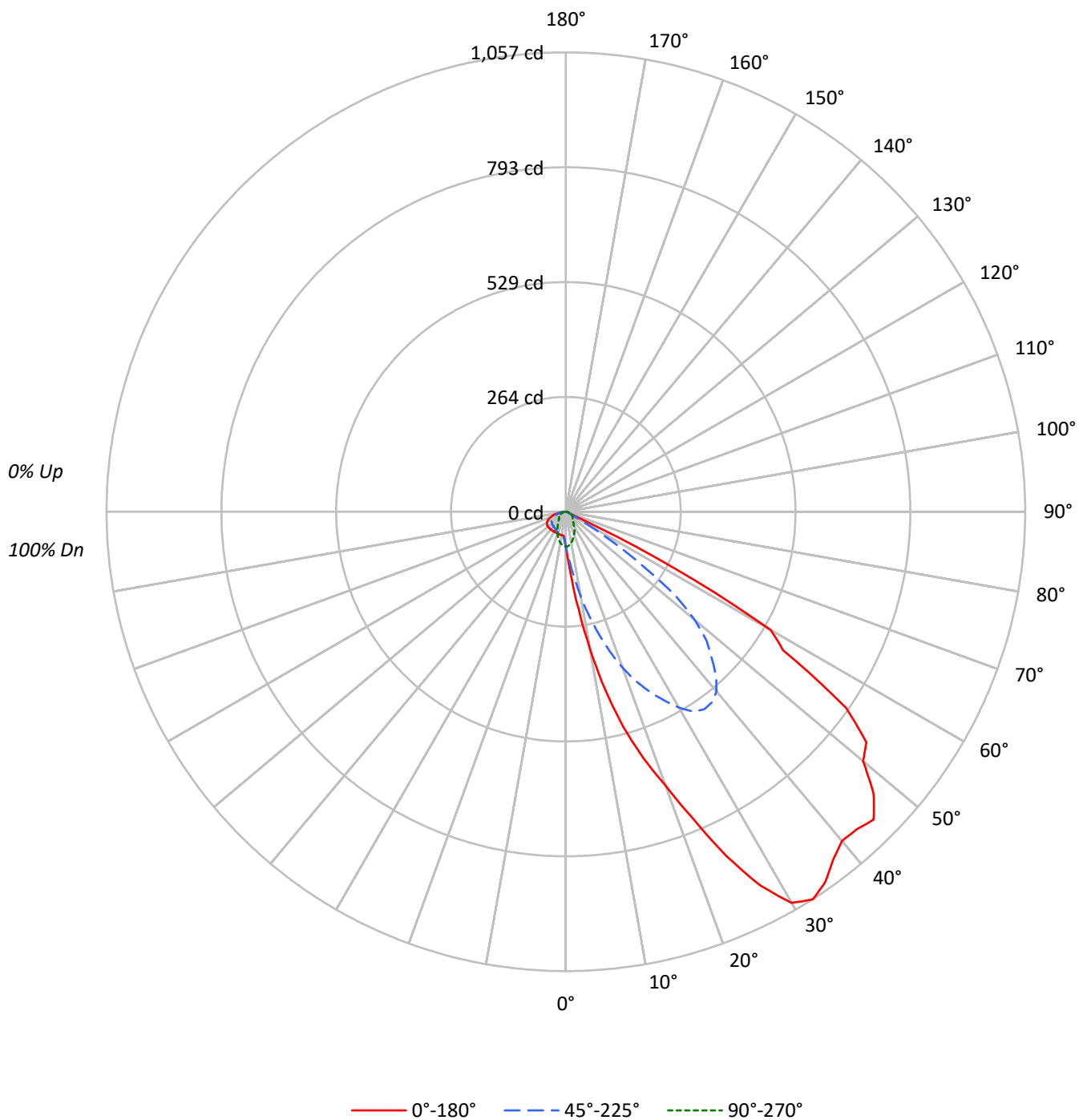
Lumens per Lamp: N/A
Luminaire Lumens: 805.0 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1307909

CATALOG NUMBER: P3SQAS09R609030DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1307909

CATALOG NUMBER: P3SQAS09R609030DE010 E3SQCA451MW

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°	13743	13743	13743	13743	13743
5°	27073	21126	13537	10252	9733
10°	55926	34416	12661	9339	9461
15°	91467	51671	11358	9396	9646
20°	122721	70011	10190	9384	9787
25°	166026	86899	8893	9311	10147
30°	206641	103470	7418	9307	10619
35°	218781	116623	6307	9545	11080
40°	222258	121246	5755	9870	12005
45°	243998	115496	5529	10522	13006
50°	239182	103528	5493	11173	14308
55°	236426	63505	5495	12070	15824
60°	187516	15121	5787	12848	17153
65°	11940	2690	5664	13122	18501
70°	2568	2971	5539	13646	19538
75°	2462	2928	4858	13175	19963
80°	2182	2876	5058	13092	18844
85°	1383	2964	5730	11659	18772

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 257530 cd/sqm

TEST NUMBER: P1307909

CATALOG NUMBER: P3SQAS09R609030DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	1.2
10°-20°	50.2	6.2
20°-30°	116.4	14.5
30°-40°	180.9	22.5
40°-50°	206.2	25.6
50°-60°	173.7	21.6
60°-70°	50.4	6.3
70°-80°	12.9	1.6
80°-90°	4.4	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°	176.5	21.9
0°-40°	357.5	44.4
0°-60°	737.3	91.6
0°-90°	805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	805.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	80	80	80	80	80	
5°	157	122	78	59	56	20
15°	513	290	64	53	54	148
25°	874	457	47	49	53	406
35°	1041	555	30	45	53	646
45°	1002	474	23	43	53	753
55°	787	212	18	40	53	662
65°	29	7	14	32	45	145
75°	4	4	7	20	30	4
85°	1	2	3	6	10	1
90°	0	0	0	0	0	

TEST NUMBER: P1307909

CATALOG NUMBER: P3SQAS09R609030DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
2.5°	107.6	106.8	106.8	106.1	105.4	104.6	102.4	101.7	97.3	88.5	79.8
5°	156.6	155.9	153.7	152.9	149.3	144.2	139.0	133.9	122.2	97.3	78.3
7.5°	226.8	228.3	226.8	218.8	213.7	205.6	190.3	179.3	155.9	106.1	75.4
10°	319.8	319.8	317.6	305.1	294.2	278.8	259.0	240.0	196.8	114.2	72.4
12.5°	420.8	423.0	412.0	401.7	382.0	363.0	335.9	307.3	243.7	120.7	68.8
15°	513.0	511.5	500.5	487.3	466.9	440.5	412.0	375.4	289.8	125.1	63.7
17.5°	594.9	592.0	582.5	567.8	543.0	513.7	477.1	437.6	337.3	128.8	60.0
20°	669.6	659.3	648.3	633.0	608.8	578.1	540.0	495.4	382.0	128.8	55.6
22.5°	764.0	753.7	738.3	714.9	682.7	644.7	600.0	549.5	421.5	125.9	51.2
25°	873.7	865.7	839.3	809.3	767.6	722.2	670.3	602.2	457.3	121.5	46.8
27.5°	969.6	960.8	934.5	890.5	840.1	785.9	731.0	661.5	488.8	113.4	41.7
30°	1039.1	1028.1	1007.6	965.9	904.4	838.6	773.5	706.9	520.3	103.9	37.3
32.5°	1057.4	1055.9	1040.6	1009.8	954.9	882.5	804.9	732.5	545.2	91.5	33.7
35°	1040.6	1042.8	1039.8	1024.5	984.2	913.2	825.4	746.4	554.7	79.0	30.0
37.5°	1009.8	1012.7	1017.9	1020.1	994.5	931.5	837.1	752.2	552.5	66.6	27.8
40°	988.6	987.1	987.1	1001.8	996.7	939.6	838.6	747.9	539.3	53.4	25.6
42.5°	990.8	974.7	963.7	987.1	994.5	935.9	829.1	736.1	510.8	41.0	23.4
45°	1001.8	967.4	948.4	978.4	990.1	923.5	811.5	718.6	474.2	28.5	22.7
47.5°	960.8	938.1	935.2	977.6	982.0	902.3	784.4	690.8	439.1	19.8	21.2
50°	892.7	889.1	904.4	948.4	949.1	867.1	753.7	640.3	386.4	13.9	20.5
52.5°	871.5	873.7	887.6	910.3	889.1	807.9	698.1	597.8	319.8	11.0	19.8
55°	787.4	791.0	804.2	818.1	802.7	735.4	630.8	546.6	211.5	10.2	18.3
57.5°	592.7	602.2	626.4	638.8	640.3	599.3	571.5	471.3	119.3	10.2	17.6
60°	544.4	532.0	521.0	495.4	472.0	466.9	469.8	353.4	43.9	9.5	16.8
62.5°	284.7	278.8	295.6	306.6	309.5	325.6	304.4	186.6	9.5	9.5	15.4
65°	29.3	29.3	35.9	47.6	79.0	105.4	100.3	54.1	6.6	8.8	13.9
67.5°	8.8	8.8	8.8	10.2	13.2	13.2	11.0	8.0	6.6	8.0	12.4
70°	5.1	5.1	5.1	5.1	5.1	5.1	5.9	5.1	5.9	7.3	11.0
72.5°	4.4	4.4	4.4	4.4	5.1	5.1	5.1	5.1	5.1	6.6	9.5
75°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.4	4.4	5.1	7.3
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	3.7	3.7	3.7	4.4	5.9
80°	2.2	2.2	2.2	2.2	2.2	2.9	2.9	2.9	2.9	3.7	5.1
82.5°	1.5	1.5	1.5	1.5	2.2	2.2	2.2	2.2	2.2	2.9	3.7
85°	0.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.9
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	2.2
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: P1307909

CATALOG NUMBER: P3SQAS09R609030DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	79.8	79.8	79.8	79.8
2.5°	72.4	67.3	64.4	62.9
5°	65.9	59.3	57.1	56.3
7.5°	60.0	55.6	54.9	54.9
10°	56.3	53.4	54.1	54.1
12.5°	54.1	53.4	54.1	54.9
15°	52.0	52.7	54.1	54.1
17.5°	50.5	52.0	53.4	54.1
20°	48.3	51.2	53.4	53.4
22.5°	46.8	50.5	52.7	53.4
25°	45.4	49.0	52.0	53.4
27.5°	43.2	48.3	52.0	52.7
30°	41.0	46.8	51.2	53.4
32.5°	38.8	46.1	51.2	52.7
35°	37.3	45.4	51.2	52.7
37.5°	35.9	44.6	51.2	53.4
40°	35.1	43.9	50.5	53.4
42.5°	33.7	43.9	50.5	53.4
45°	32.9	43.2	50.5	53.4
47.5°	32.2	42.4	50.5	53.4
50°	30.7	41.7	49.8	53.4
52.5°	30.0	41.0	49.8	53.4
55°	28.5	40.2	49.0	52.7
57.5°	27.8	38.8	48.3	51.2
60°	26.3	37.3	46.8	49.8
62.5°	24.1	35.1	44.6	48.3
65°	22.0	32.2	42.4	45.4
67.5°	19.8	30.0	39.5	42.4
70°	17.6	27.1	35.9	38.8
72.5°	15.4	23.4	32.2	34.4
75°	13.2	19.8	27.1	30.0
77.5°	10.2	16.1	22.7	24.9
80°	8.0	13.2	17.6	19.0
82.5°	6.6	9.5	13.2	13.9
85°	4.4	5.9	8.0	9.5
87.5°	2.2	2.9	3.7	4.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)