

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: P1313319

Luminaire Tested: P3SQAS09R659730DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313319
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: P3SQAS09R659730DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

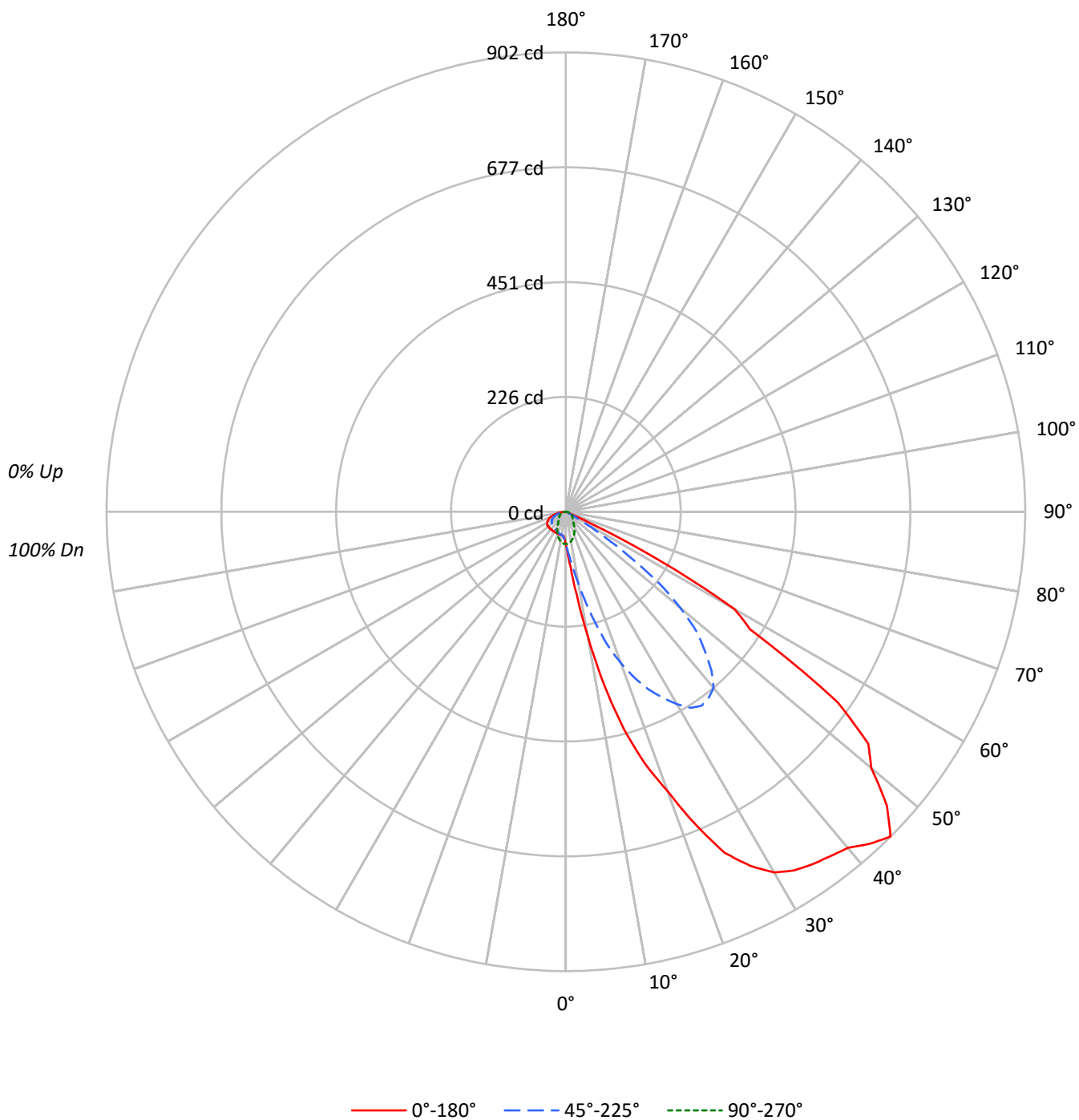
Lumens per Lamp: N/A
Luminaire Lumens: 654.0 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1313319

CATALOG NUMBER: P3SQAS09R659730DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1313319

CATALOG NUMBER: P3SQAS09R659730DE010 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	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°	10953	10953	10953	10953	10953
5°	19155	15646	10770	8730	8385
10°	43353	25235	10318	8027	8149
15°	78808	40563	9592	8059	8309
20°	106850	57933	8651	8046	8412
25°	140430	73141	7601	7848	8589
30°	162612	86725	6523	7815	8989
35°	177573	97743	5508	7989	9503
40°	193706	101439	4856	8408	10162
45°	219593	94063	4628	8939	11009
50°	209790	78531	4555	9485	12110
55°	195530	44108	4714	10239	13392
60°	131681	9472	4753	10850	14467
65°	20294	2404	4523	11207	15771
70°	2316	2316	4280	11582	16818
75°	2196	2196	3926	11312	17035
80°	1984	2579	3868	10414	16860
85°	1383	2569	3952	10275	15611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 219593 cd/sqm

TEST NUMBER: P1313319

CATALOG NUMBER: P3SQAS09R659730DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	1.2
10°-20°	41.6	6.4
20°-30°	97.7	14.9
30°-40°	147.6	22.6
40°-50°	169.7	25.9
50°-60°	134.7	20.6
60°-70°	40.4	6.2
70°-80°	11.0	1.7
80°-90°	3.7	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°	147.0	22.5
0°-40°	294.6	45.0
0°-60°	599.0	91.6
0°-90°	654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	654.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	64	64	64	64	64	
5°	111	90	62	50	48	15
15°	442	228	54	45	47	127
25°	739	385	40	41	45	337
35°	845	465	26	38	45	530
45°	902	386	19	37	45	670
55°	651	147	16	34	45	537
65°	50	6	11	28	39	112
75°	3	3	6	17	26	3
85°	1	1	2	5	8	1
90°	0	0	0	0	0	

TEST NUMBER: P1313319

CATALOG NUMBER: P3SQAS09R659730DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
2.5°	80.7	81.3	80.7	80.7	80.0	79.3	74.8	69.5	63.6	59.0	55.7
5°	110.8	111.5	109.5	109.5	108.2	106.2	90.5	75.4	62.3	55.1	50.5
7.5°	163.9	166.6	163.3	159.3	152.1	150.8	112.8	81.3	61.0	51.1	47.2
10°	247.9	245.9	242.6	234.8	222.3	216.4	144.3	87.2	59.0	48.5	45.9
12.5°	349.5	344.3	340.3	325.9	308.9	299.0	183.6	92.5	56.4	45.9	45.2
15°	442.0	438.0	428.9	415.1	394.1	386.2	227.5	95.7	53.8	43.9	45.2
17.5°	520.0	516.1	510.8	497.1	475.4	463.6	276.7	97.7	50.5	42.6	44.6
20°	583.0	580.3	573.1	562.0	540.3	529.2	316.1	97.7	47.2	41.3	43.9
22.5°	664.3	658.4	649.2	632.8	605.9	588.9	353.4	95.7	43.9	40.0	42.6
25°	739.0	735.1	723.3	703.6	674.8	657.7	384.9	91.8	40.0	38.0	41.3
27.5°	783.6	781.0	769.8	749.5	717.4	704.3	411.2	85.9	36.1	36.1	40.7
30°	817.7	812.5	801.3	781.6	748.9	733.1	436.1	78.7	32.8	34.1	39.3
32.5°	834.8	832.8	823.0	805.9	773.8	756.1	456.4	69.5	28.9	32.8	38.7
35°	844.6	842.6	834.8	818.4	788.2	771.2	464.9	61.0	26.2	31.5	38.0
37.5°	852.5	850.5	840.7	824.3	794.1	776.4	461.0	51.8	23.6	30.2	37.4
40°	861.6	854.4	839.4	823.0	795.4	778.4	451.2	43.3	21.6	29.5	37.4
42.5°	883.9	859.0	835.4	820.3	794.1	774.4	423.0	34.1	19.7	28.2	36.7
45°	901.6	857.7	827.5	815.7	788.9	766.6	386.2	24.9	19.0	27.5	36.7
47.5°	855.1	828.2	814.4	807.9	779.0	754.8	348.2	17.0	18.4	26.9	36.1
50°	783.0	779.7	774.4	775.1	748.9	729.2	293.1	11.8	17.0	26.2	35.4
52.5°	748.2	744.3	735.1	728.5	702.3	685.3	232.1	9.2	16.4	25.6	34.8
55°	651.2	653.8	643.9	647.9	640.0	631.5	146.9	8.5	15.7	24.3	34.1
57.5°	428.9	442.0	464.9	492.5	517.4	534.4	79.3	8.5	14.4	23.6	32.8
60°	382.3	379.0	378.4	383.6	394.8	403.9	27.5	7.9	13.8	21.6	31.5
62.5°	209.2	207.9	227.5	261.0	280.7	282.6	7.9	7.9	12.5	20.3	29.5
65°	49.8	51.8	57.7	72.1	85.2	93.8	5.9	7.2	11.1	19.0	27.5
67.5°	7.9	8.5	8.5	10.5	11.8	11.8	5.2	6.6	9.8	17.0	25.6
70°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	5.9	8.5	15.1	23.0
72.5°	3.9	3.9	3.9	3.9	3.9	3.9	4.6	5.2	7.2	13.1	19.7
75°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.6	5.9	10.5	17.0
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	3.3	3.9	5.2	8.5	13.8
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.6	3.3	3.9	6.6	10.5
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.6	3.3	5.2	7.9
85°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	2.0	2.0	3.3	5.2
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3	2.0	2.6
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: P1313319

CATALOG NUMBER: P3SQAS09R659730DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	63.6	63.6
2.5°	53.8	53.1
5°	48.5	48.5
7.5°	46.6	46.6
10°	45.9	46.6
12.5°	45.9	46.6
15°	45.9	46.6
17.5°	45.9	46.6
20°	45.2	45.9
22.5°	44.6	45.2
25°	43.9	45.2
27.5°	43.3	45.2
30°	43.3	45.2
32.5°	43.3	45.2
35°	42.6	45.2
37.5°	42.6	45.2
40°	42.6	45.2
42.5°	42.6	45.2
45°	42.6	45.2
47.5°	42.6	45.2
50°	42.6	45.2
52.5°	42.0	45.2
55°	42.0	44.6
57.5°	40.7	43.3
60°	39.3	42.0
62.5°	38.0	40.7
65°	36.1	38.7
67.5°	34.1	36.1
70°	30.8	33.4
72.5°	27.5	29.5
75°	23.6	25.6
77.5°	19.7	21.6
80°	15.7	17.0
82.5°	11.1	12.5
85°	7.2	7.9
87.5°	3.3	3.3
90°	0.0	0.0

(END OF REPORT)