

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: P1309809

Luminaire Tested: P3SQAS02R559040DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R559040DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

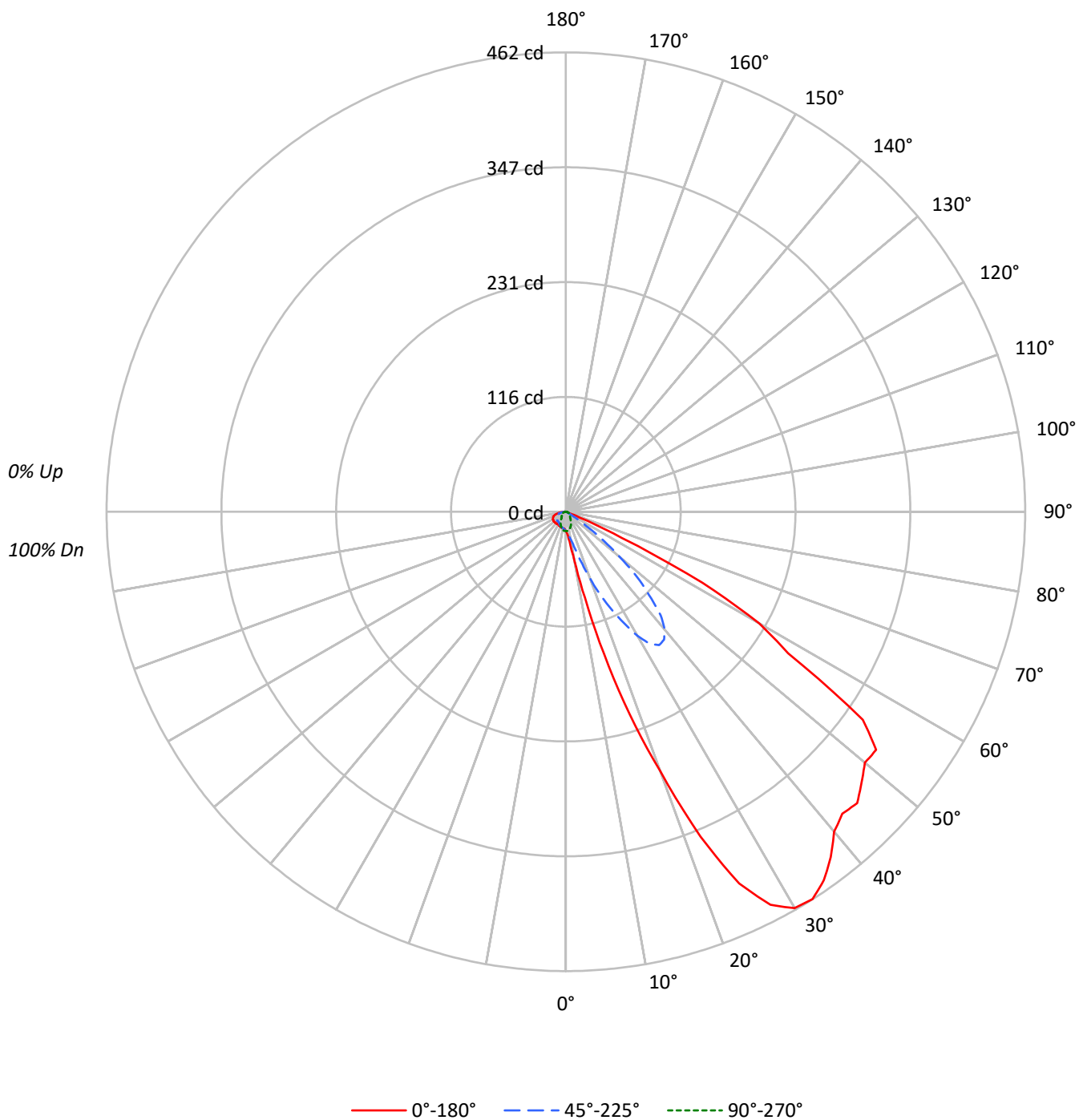
Lumens per Lamp: N/A
Luminaire Lumens: 297.0 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 3.75 / 0.9 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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: P1309809

CATALOG NUMBER: P3SQAS02R559040DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1309809

CATALOG NUMBER: P3SQAS02R559040DE010 E3SQCA451MB

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	107	104	100	97	99	97	94		95	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	91	81	73	67	89	80	72	67	77	71	65		74	69	64		72
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63
5	76	63	54	47	74	62	53	47	60	52	47		58	51	46		56
6	69	56	47	40	68	55	46	40	53	46	40		51	45	39		50
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45
8	59	45	36	30	57	44	36	30	43	35	30		41	35	29		40
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		36
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3307	3307	3307	3307	3307
5°	4218	3855	3319	3077	2991
10°	8587	4914	3218	2938	2938
15°	26335	7524	2995	2853	2942
20°	50932	13178	2694	2786	2932
25°	78386	20504	2337	2698	2945
30°	91538	28657	1929	2665	3023
35°	95115	34417	1598	2649	3154
40°	94402	34757	1484	2765	3417
45°	100931	28764	1413	2996	3702
50°	105190	18996	1393	3242	4153
55°	109535	8287	1411	3543	4564
60°	77362	1894	1447	3892	5167
65°	25225	652	1386	4157	5787
70°	806	655	1460	4482	6596
75°	665	665	1198	4724	7320
80°	496	793	1289	4661	7835
85°	593	988	1581	4742	7707

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 111295 cd/sqm

TEST NUMBER: P1309809

CATALOG NUMBER: P3SQAS02R559040DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.7
10°-20°	12.6	4.2
20°-30°	42.3	14.2
30°-40°	69.4	23.4
40°-50°	77.4	26.1
50°-60°	65.2	21.9
60°-70°	22.1	7.4
70°-80°	4.3	1.5
80°-90°	1.6	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°	56.9	19.2
0°-40°	126.3	42.5
0°-60°	268.9	90.6
0°-90°	297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	297.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	24	22	19	18	17	3
15°	148	42	17	16	16	47
25°	412	108	12	14	16	185
35°	452	164	8	13	15	281
45°	414	118	6	12	15	316
55°	365	28	5	12	15	297
65°	62	2	3	10	14	84
75°	1	1	2	7	11	1
85°	0	0	1	2	4	0
90°	0	0	0	0	0	

TEST NUMBER: P1309809

CATALOG NUMBER: P3SQAS02R559040DE010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
2.5°	21.0	21.0	21.0	21.0	21.0	21.0	20.7	19.9	19.4	18.6	18.4
5°	24.4	24.4	24.4	24.1	24.1	23.6	22.3	20.5	19.2	18.1	17.8
7.5°	31.5	31.2	30.7	30.4	29.7	29.4	24.7	21.0	18.9	17.6	17.3
10°	49.1	48.5	47.8	44.9	42.2	40.4	28.1	21.3	18.4	17.1	16.8
12.5°	88.4	87.4	83.4	77.4	70.1	66.4	33.6	21.5	17.6	16.5	16.5
15°	147.7	146.4	139.1	130.7	117.3	110.0	42.2	21.3	16.8	15.7	16.0
17.5°	213.3	209.7	202.1	191.0	172.9	164.3	55.1	20.7	15.7	15.2	15.7
20°	277.9	276.9	264.3	249.3	227.0	215.4	71.9	19.9	14.7	14.4	15.2
22.5°	353.5	349.0	335.6	319.6	288.9	273.7	90.0	18.9	13.6	13.6	14.7
25°	412.5	407.3	396.8	378.1	349.0	332.7	107.9	17.6	12.3	12.9	14.2
27.5°	445.6	439.5	431.7	415.7	393.1	378.7	125.7	16.0	11.0	12.1	13.6
30°	460.3	458.7	452.9	441.1	420.4	407.5	144.1	14.2	9.7	11.3	13.4
32.5°	461.9	462.6	460.3	452.7	436.9	425.9	157.7	12.6	8.7	10.8	12.9
35°	452.4	455.3	456.9	453.7	443.5	434.6	163.7	10.8	7.6	10.2	12.6
37.5°	437.7	443.0	448.2	449.0	442.7	436.9	162.2	9.2	7.1	10.0	12.6
40°	419.9	424.6	435.4	442.2	440.1	435.9	154.6	7.6	6.6	9.4	12.3
42.5°	411.7	412.8	424.3	435.9	435.4	431.9	141.2	6.0	6.0	9.4	12.3
45°	414.4	409.6	417.2	430.6	429.8	425.4	118.1	4.7	5.8	9.2	12.3
47.5°	403.3	396.8	409.6	425.4	422.5	415.9	97.6	3.4	5.5	8.9	12.1
50°	392.6	391.5	401.5	409.4	405.4	401.8	70.9	2.6	5.2	8.7	12.1
52.5°	393.4	391.5	392.6	392.3	384.4	380.5	48.5	2.1	5.0	8.4	12.1
55°	364.8	359.0	353.5	355.1	355.6	353.0	27.6	1.8	4.7	8.4	11.8
57.5°	265.0	263.5	269.5	286.6	299.9	301.5	13.4	1.8	4.5	8.1	11.5
60°	224.6	223.6	223.8	228.8	235.9	231.5	5.5	1.8	4.2	7.9	11.3
62.5°	154.8	165.1	169.3	180.8	176.1	169.8	2.1	2.1	3.9	7.3	11.0
65°	61.9	61.7	67.4	73.0	71.4	66.7	1.6	1.8	3.4	6.8	10.2
67.5°	14.4	13.1	11.3	9.7	8.1	6.6	1.6	1.8	3.1	6.3	9.7
70°	1.6	1.6	1.6	1.6	1.6	1.3	1.3	1.8	2.9	5.8	8.9
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	2.4	5.0	8.1
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.8	4.2	7.1
77.5°	0.8	0.8	0.8	1.0	0.8	1.0	1.0	1.3	1.6	3.4	6.0
80°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	1.0	1.3	2.9	4.7
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8	1.0	2.1	3.4
85°	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.8	0.8	1.6	2.4
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.8	0.8	1.0
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: P1309809

CATALOG NUMBER: P3SQAS02R559040DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	19.2	19.2
2.5°	18.1	18.1
5°	17.6	17.3
7.5°	17.1	17.1
10°	16.8	16.8
12.5°	16.5	16.8
15°	16.5	16.5
17.5°	16.0	16.3
20°	15.7	16.0
22.5°	15.5	15.7
25°	15.2	15.5
27.5°	15.0	15.2
30°	14.7	15.2
32.5°	14.4	15.0
35°	14.4	15.0
37.5°	14.4	15.2
40°	14.4	15.2
42.5°	14.4	15.2
45°	14.4	15.2
47.5°	14.4	15.2
50°	14.4	15.5
52.5°	14.4	15.5
55°	14.4	15.2
57.5°	14.2	15.2
60°	14.2	15.0
62.5°	13.9	14.7
65°	13.4	14.2
67.5°	12.9	13.9
70°	12.1	13.1
72.5°	11.3	12.1
75°	10.2	11.0
77.5°	8.9	9.4
80°	7.1	7.9
82.5°	5.5	6.0
85°	3.7	3.9
87.5°	1.6	1.8
90°	0.0	0.0

(END OF REPORT)