

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: P1307575

Luminaire Tested: P3SQAS02R559030DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307575
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: P3SQAS02R559030DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

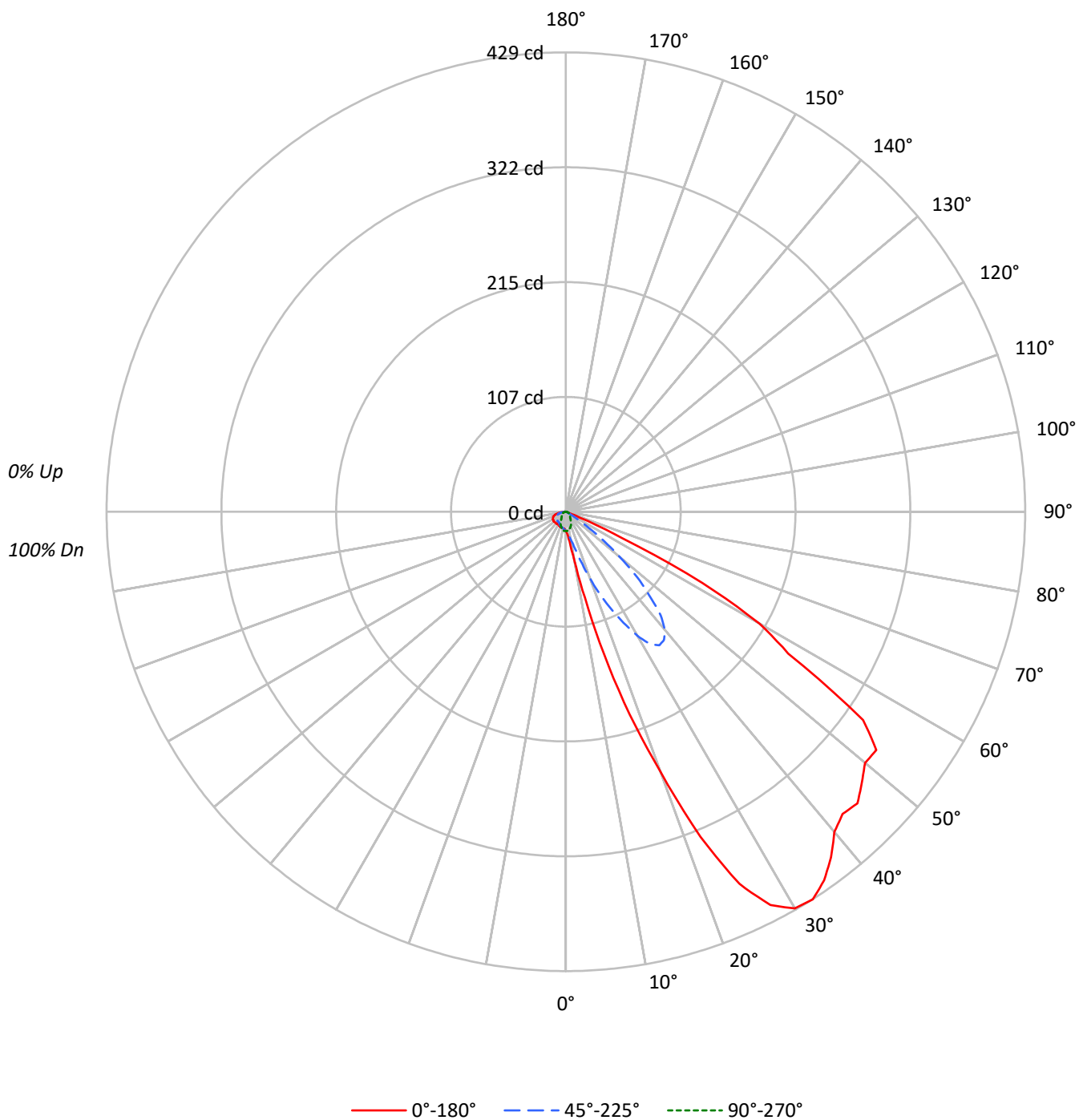
Lumens per Lamp: N/A
Luminaire Lumens: 276.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1307575

CATALOG NUMBER: P3SQAS02R559030DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1307575

CATALOG NUMBER: P3SQAS02R559030DE010 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
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°	3066	3066	3066	3066	3066
5°	3924	3579	3077	2870	2783
10°	7975	4564	2990	2728	2728
15°	24480	7007	2781	2657	2746
20°	47340	12243	2511	2584	2731
25°	72856	19041	2185	2508	2736
30°	85055	26628	1790	2466	2804
35°	88387	31999	1493	2460	2922
40°	87725	32284	1371	2585	3170
45°	93795	26718	1315	2801	3434
50°	97741	17630	1313	3001	3858
55°	101788	7687	1321	3303	4234
60°	71886	1757	1343	3617	4788
65°	23473	611	1304	3871	5379
70°	755	604	1360	4179	6143
75°	665	665	1131	4392	6787
80°	496	694	1190	4364	7240
85°	395	988	1383	4347	7311

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 103402 cd/sqm

TEST NUMBER: P1307575

CATALOG NUMBER: P3SQAS02R559030DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.7
10°-20°	11.7	4.2
20°-30°	39.3	14.2
30°-40°	64.5	23.4
40°-50°	72.0	26.1
50°-60°	60.6	21.9
60°-70°	20.5	7.4
70°-80°	4.0	1.5
80°-90°	1.5	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°	52.9	19.2
0°-40°	117.4	42.5
0°-60°	249.9	90.6
0°-90°	276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	276.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	23	21	18	17	16	3
15°	137	39	16	15	15	44
25°	383	100	12	13	14	172
35°	420	152	7	12	14	261
45°	385	110	5	12	14	294
55°	339	26	4	11	14	276
65°	58	2	3	10	13	78
75°	1	1	2	7	10	1
85°	0	0	1	2	4	0
90°	0	0	0	0	0	

TEST NUMBER: P1307575

CATALOG NUMBER: P3SQAS02R559030DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
2.5°	19.5	19.5	19.5	19.5	19.5	19.5	19.3	18.5	18.0	17.3	17.1
5°	22.7	22.7	22.7	22.4	22.4	21.9	20.7	19.0	17.8	16.8	16.6
7.5°	29.3	29.0	28.5	28.3	27.6	27.3	22.9	19.5	17.6	16.3	16.1
10°	45.6	45.1	44.4	41.7	39.3	37.6	26.1	19.8	17.1	15.9	15.6
12.5°	82.2	81.2	77.5	71.9	65.1	61.7	31.2	20.0	16.3	15.4	15.4
15°	137.3	136.1	129.2	121.4	109.0	102.2	39.3	19.8	15.6	14.6	14.9
17.5°	198.3	194.8	187.8	177.5	160.7	152.7	51.2	19.3	14.6	14.1	14.6
20°	258.3	257.3	245.6	231.7	210.9	200.2	66.8	18.5	13.7	13.4	14.1
22.5°	328.5	324.3	311.9	297.0	268.5	254.3	83.6	17.6	12.7	12.7	13.7
25°	383.4	378.5	368.7	351.4	324.3	309.2	100.2	16.3	11.5	11.9	13.2
27.5°	414.1	408.5	401.2	386.3	365.3	351.9	116.8	14.9	10.2	11.2	12.7
30°	427.7	426.3	420.9	409.9	390.7	378.7	133.9	13.2	9.0	10.5	12.4
32.5°	429.2	429.9	427.7	420.7	406.0	395.8	146.6	11.7	8.0	10.0	11.9
35°	420.4	423.1	424.6	421.6	412.1	403.8	152.2	10.0	7.1	9.5	11.7
37.5°	406.8	411.6	416.5	417.2	411.4	406.0	150.7	8.5	6.6	9.3	11.7
40°	390.2	394.6	404.6	410.9	409.0	405.1	143.6	7.1	6.1	8.8	11.5
42.5°	382.6	383.6	394.3	405.1	404.6	401.4	131.2	5.6	5.6	8.8	11.5
45°	385.1	380.7	387.7	400.2	399.4	395.3	109.7	4.4	5.4	8.5	11.5
47.5°	374.8	368.7	380.7	395.3	392.6	386.5	90.7	3.2	5.1	8.3	11.2
50°	364.8	363.8	373.1	380.4	376.8	373.4	65.8	2.4	4.9	8.0	11.2
52.5°	365.5	363.8	364.8	364.6	357.3	353.6	45.1	2.0	4.6	7.8	11.2
55°	339.0	333.6	328.5	329.9	330.4	328.0	25.6	1.7	4.4	7.8	11.0
57.5°	246.3	244.8	250.4	266.3	278.7	280.2	12.4	1.7	4.1	7.6	10.7
60°	208.7	207.8	208.0	212.6	219.2	215.1	5.1	1.7	3.9	7.3	10.5
62.5°	143.9	153.4	157.3	168.0	163.6	157.8	2.0	2.0	3.7	6.8	10.2
65°	57.6	57.3	62.7	67.8	66.3	61.9	1.5	1.7	3.2	6.3	9.5
67.5°	13.4	12.2	10.5	9.0	7.6	6.1	1.5	1.7	2.9	5.9	9.0
70°	1.5	1.5	1.5	1.5	1.5	1.2	1.2	1.7	2.7	5.4	8.3
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	2.2	4.6	7.6
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.7	3.9	6.6
77.5°	0.7	0.7	0.7	1.0	0.7	1.0	1.0	1.2	1.5	3.2	5.6
80°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	1.0	1.2	2.7	4.4
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	1.0	2.0	3.2
85°	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.7	0.7	1.5	2.2
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.7	0.7	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: P1307575

CATALOG NUMBER: P3SQAS02R559030DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	17.8	17.8
2.5°	16.8	16.8
5°	16.3	16.1
7.5°	15.9	15.9
10°	15.6	15.6
12.5°	15.4	15.6
15°	15.4	15.4
17.5°	14.9	15.1
20°	14.6	14.9
22.5°	14.4	14.6
25°	14.1	14.4
27.5°	13.9	14.1
30°	13.7	14.1
32.5°	13.4	13.9
35°	13.4	13.9
37.5°	13.4	14.1
40°	13.4	14.1
42.5°	13.4	14.1
45°	13.4	14.1
47.5°	13.4	14.1
50°	13.4	14.4
52.5°	13.4	14.4
55°	13.4	14.1
57.5°	13.2	14.1
60°	13.2	13.9
62.5°	12.9	13.7
65°	12.4	13.2
67.5°	11.9	12.9
70°	11.2	12.2
72.5°	10.5	11.2
75°	9.5	10.2
77.5°	8.3	8.8
80°	6.6	7.3
82.5°	5.1	5.6
85°	3.4	3.7
87.5°	1.5	1.7
90°	0.0	0.0

(END OF REPORT)