

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: P1305485

Luminaire Tested: P3SQAS02R559024DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305485
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: P3SQAS02R559024DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 2400K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

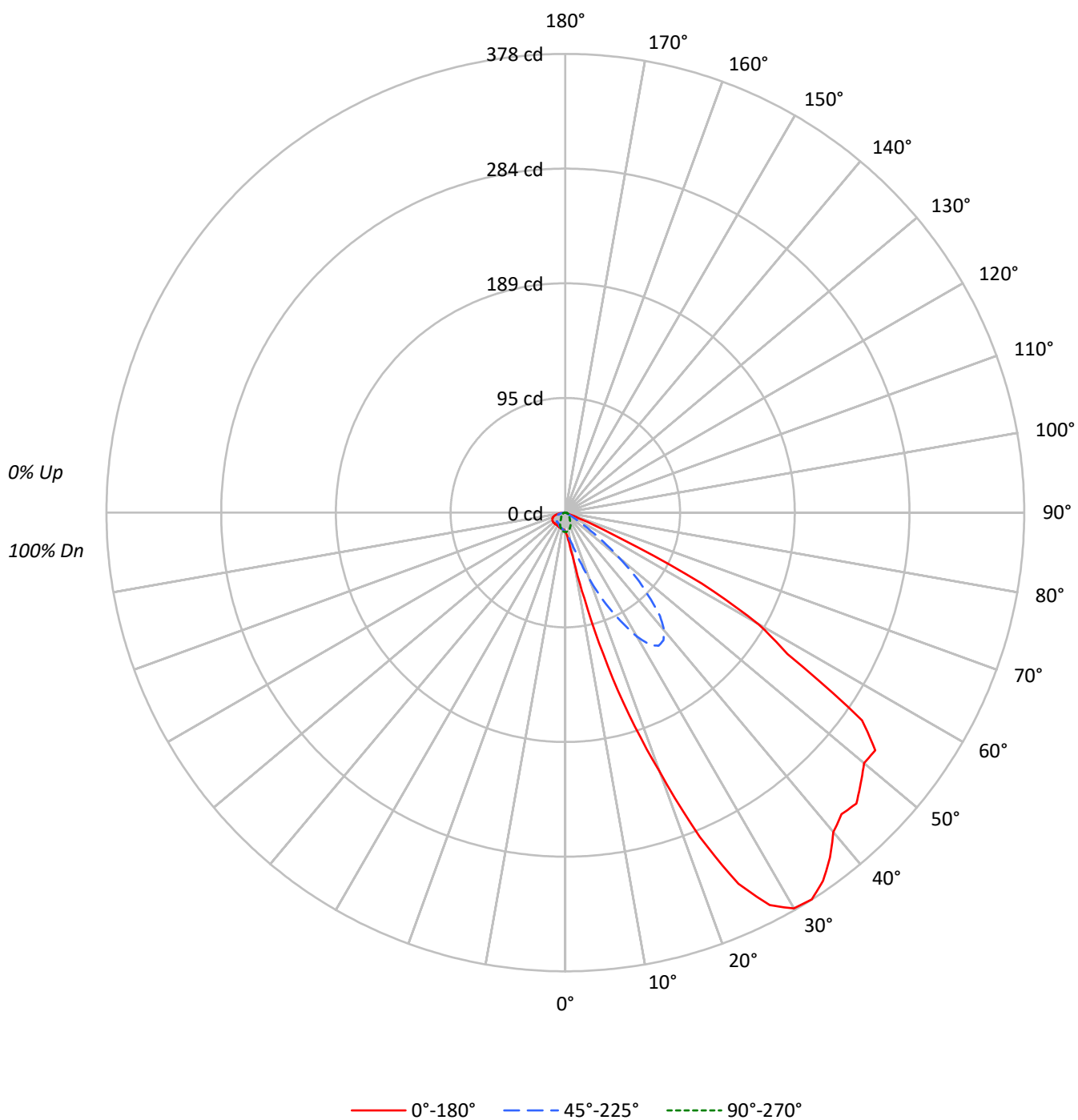
Lumens per Lamp: N/A
Luminaire Lumens: 243.0 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 3.75 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1305485

CATALOG NUMBER: P3SQAS02R559024DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1305485

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	107	104	100	97	99	97	94		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81	78	75	73
3	91	81	73	67	89	80	72	67	77	71	65		74	69	64		72	67	63	61
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	51
5	76	63	54	47	74	62	53	47	60	52	47		58	51	46		56	50	46	43
6	69	56	47	40	68	55	46	40	53	46	40		51	45	39		50	44	39	37
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45	38	34	32
8	59	45	36	30	57	44	36	30	43	35	30		41	35	29		40	34	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		36	30	26	24
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2704	2704	2704	2704	2704
5°	3458	3146	2714	2524	2455
10°	7013	4022	2623	2396	2396
15°	21556	6169	2443	2336	2407
20°	41677	10777	2199	2291	2401
25°	64134	16760	1919	2204	2413
30°	74893	23446	1571	2168	2486
35°	77833	28173	1304	2166	2565
40°	77226	28440	1214	2271	2810
45°	82567	23528	1145	2460	3044
50°	86059	15540	1152	2653	3403
55°	89598	6756	1171	2913	3753
60°	63309	1550	1171	3169	4202
65°	20661	530	1141	3423	4727
70°	655	554	1209	3676	5388
75°	599	599	998	3859	5989
80°	397	595	1091	3868	6347
85°	395	790	1186	3754	6323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 91039 cd/sqm

TEST NUMBER: P1305485

CATALOG NUMBER: P3SQAS02R559024DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.7
10°-20°	10.3	4.2
20°-30°	34.6	14.2
30°-40°	56.8	23.4
40°-50°	63.4	26.1
50°-60°	53.3	21.9
60°-70°	18.1	7.4
70°-80°	3.5	1.5
80°-90°	1.3	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°	46.6	19.2
0°-40°	103.4	42.5
0°-60°	220.0	90.6
0°-90°	243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	243.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	20	18	16	15	14	2
15°	121	35	14	13	14	38
25°	338	88	10	12	13	152
35°	370	134	6	10	12	230
45°	339	97	5	10	12	259
55°	298	22	4	10	12	243
65°	51	1	3	8	12	69
75°	1	1	2	6	9	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	

TEST NUMBER: P1305485

CATALOG NUMBER: P3SQAS02R559024DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
2.5°	17.2	17.2	17.2	17.2	17.2	17.2	17.0	16.3	15.9	15.2	15.0
5°	20.0	20.0	20.0	19.8	19.8	19.3	18.2	16.7	15.7	14.8	14.6
7.5°	25.8	25.5	25.1	24.9	24.3	24.0	20.2	17.2	15.5	14.4	14.2
10°	40.1	39.7	39.1	36.7	34.6	33.1	23.0	17.4	15.0	14.0	13.7
12.5°	72.4	71.5	68.3	63.3	57.3	54.3	27.5	17.6	14.4	13.5	13.5
15°	120.9	119.8	113.8	106.9	96.0	90.0	34.6	17.4	13.7	12.9	13.1
17.5°	174.6	171.5	165.3	156.3	141.5	134.4	45.1	17.0	12.9	12.5	12.9
20°	227.4	226.5	216.2	204.0	185.7	176.3	58.8	16.3	12.0	11.8	12.5
22.5°	289.2	285.6	274.6	261.5	236.4	223.9	73.6	15.5	11.2	11.2	12.0
25°	337.5	333.2	324.6	309.4	285.6	272.2	88.2	14.4	10.1	10.5	11.6
27.5°	364.6	359.6	353.2	340.1	321.6	309.8	102.8	13.1	9.0	9.9	11.2
30°	376.6	375.3	370.6	360.9	344.0	333.4	117.9	11.6	7.9	9.2	10.9
32.5°	377.9	378.5	376.6	370.4	357.5	348.5	129.0	10.3	7.1	8.8	10.5
35°	370.2	372.5	373.8	371.2	362.9	355.6	134.0	8.8	6.2	8.4	10.3
37.5°	358.1	362.4	366.7	367.4	362.2	357.5	132.7	7.5	5.8	8.2	10.3
40°	343.5	347.4	356.2	361.8	360.1	356.6	126.5	6.2	5.4	7.7	10.1
42.5°	336.9	337.7	347.2	356.6	356.2	353.4	115.5	4.9	4.9	7.7	10.1
45°	339.0	335.2	341.4	352.3	351.7	348.0	96.6	3.9	4.7	7.5	10.1
47.5°	330.0	324.6	335.2	348.0	345.7	340.3	79.9	2.8	4.5	7.3	9.9
50°	321.2	320.3	328.5	334.9	331.7	328.7	58.0	2.1	4.3	7.1	9.9
52.5°	321.8	320.3	321.2	321.0	314.5	311.3	39.7	1.7	4.1	6.9	9.9
55°	298.4	293.7	289.2	290.5	290.9	288.8	22.5	1.5	3.9	6.9	9.7
57.5°	216.9	215.6	220.5	234.5	245.4	246.7	10.9	1.5	3.6	6.7	9.4
60°	183.8	182.9	183.1	187.2	193.0	189.4	4.5	1.5	3.4	6.4	9.2
62.5°	126.7	135.0	138.5	147.9	144.1	138.9	1.7	1.7	3.2	6.0	9.0
65°	50.7	50.5	55.2	59.7	58.4	54.5	1.3	1.5	2.8	5.6	8.4
67.5°	11.8	10.7	9.2	7.9	6.7	5.4	1.3	1.5	2.6	5.2	7.9
70°	1.3	1.3	1.3	1.3	1.3	1.1	1.1	1.5	2.4	4.7	7.3
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.9	4.1	6.7
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.5	3.4	5.8
77.5°	0.6	0.6	0.6	0.9	0.6	0.9	0.9	1.1	1.3	2.8	4.9
80°	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.9	1.1	2.4	3.9
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.9	1.7	2.8
85°	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.6	0.6	1.3	1.9
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.6	0.6	0.9
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: P1305485

CATALOG NUMBER: P3SQAS02R559024DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	15.7	15.7
2.5°	14.8	14.8
5°	14.4	14.2
7.5°	14.0	14.0
10°	13.7	13.7
12.5°	13.5	13.7
15°	13.5	13.5
17.5°	13.1	13.3
20°	12.9	13.1
22.5°	12.7	12.9
25°	12.5	12.7
27.5°	12.2	12.5
30°	12.0	12.5
32.5°	11.8	12.2
35°	11.8	12.2
37.5°	11.8	12.5
40°	11.8	12.5
42.5°	11.8	12.5
45°	11.8	12.5
47.5°	11.8	12.5
50°	11.8	12.7
52.5°	11.8	12.7
55°	11.8	12.5
57.5°	11.6	12.5
60°	11.6	12.2
62.5°	11.4	12.0
65°	10.9	11.6
67.5°	10.5	11.4
70°	9.9	10.7
72.5°	9.2	9.9
75°	8.4	9.0
77.5°	7.3	7.7
80°	5.8	6.4
82.5°	4.5	4.9
85°	3.0	3.2
87.5°	1.3	1.5
90°	0.0	0.0

(END OF REPORT)