

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: P1308691

Luminaire Tested: P3SQAS02R559035DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308691
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: P3SQAS02R559035DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

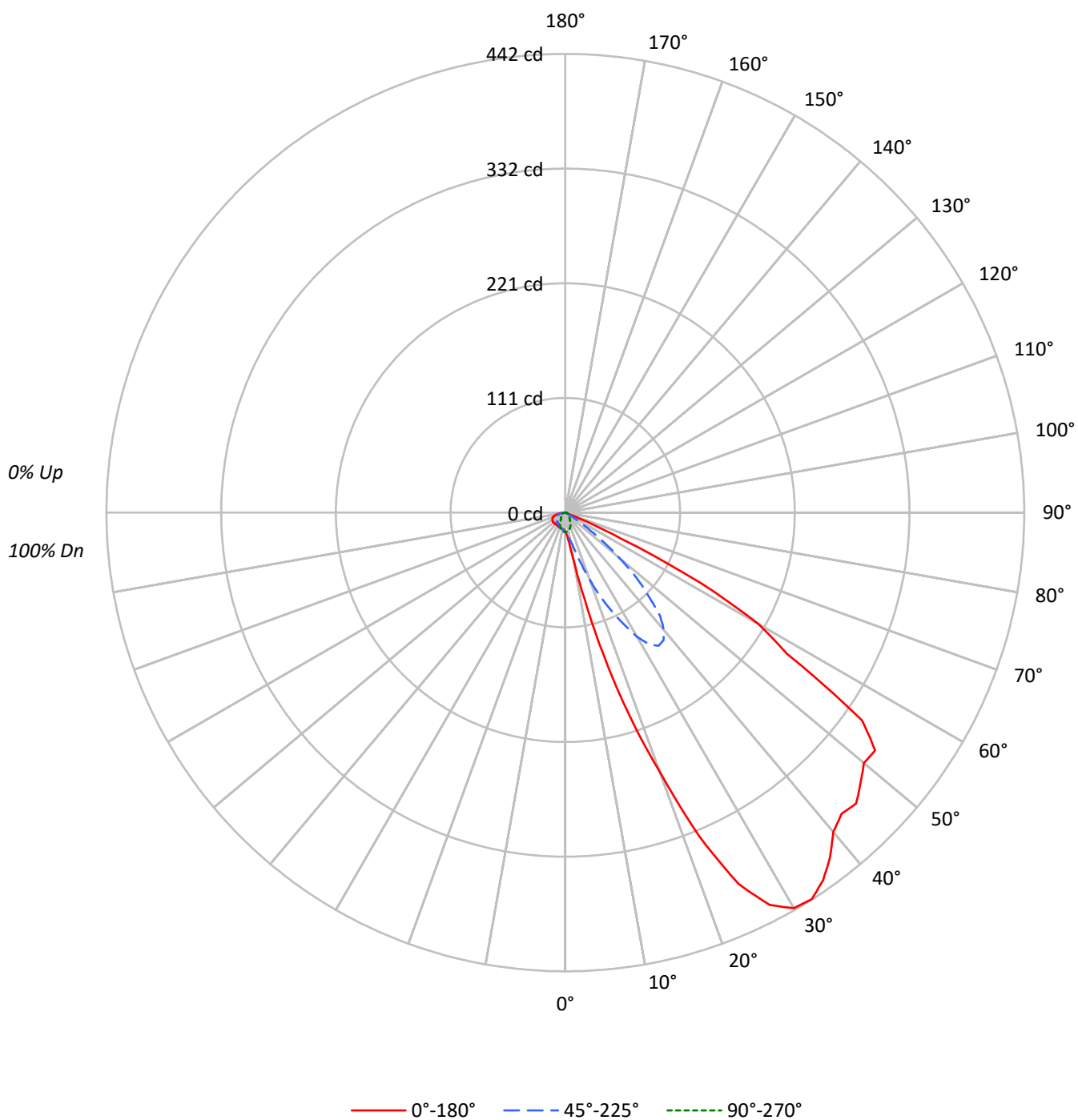
Lumens per Lamp: N/A
Luminaire Lumens: 284.1 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1308691

CATALOG NUMBER: P3SQAS02R559035DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1308691

CATALOG NUMBER: P3SQAS02R559035DE010 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	96	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°	3152	3152	3152	3152	3152
5°	4028	3682	3164	2956	2870
10°	8202	4687	3078	2816	2816
15°	25194	7203	2871	2728	2817
20°	48696	12609	2584	2676	2804
25°	74966	19592	2242	2584	2812
30°	87521	27404	1849	2545	2903
35°	90952	32924	1535	2523	3007
40°	90266	33228	1416	2653	3282
45°	96498	27498	1340	2874	3556
50°	100581	18166	1340	3081	3965
55°	104731	7897	1351	3393	4384
60°	73987	1826	1378	3720	4926
65°	24125	611	1345	3994	5542
70°	755	655	1410	4280	6294
75°	665	665	1198	4525	6987
80°	496	793	1289	4463	7438
85°	593	988	1581	4545	7509

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 106401 cd/sqm

TEST NUMBER: P1308691

CATALOG NUMBER: P3SQAS02R559035DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.7
10°-20°	12.1	4.2
20°-30°	40.4	14.2
30°-40°	66.4	23.4
40°-50°	74.0	26.1
50°-60°	62.3	21.9
60°-70°	21.1	7.4
70°-80°	4.2	1.5
80°-90°	1.6	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°	54.4	19.2
0°-40°	120.8	42.5
0°-60°	257.2	90.5
0°-90°	284.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	284.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	23	21	18	17	17	3
15°	141	40	16	15	16	45
25°	394	103	12	14	15	177
35°	433	157	7	12	14	269
45°	396	113	6	12	15	303
55°	349	26	4	11	15	284
65°	59	2	3	10	14	80
75°	1	1	2	7	10	1
85°	0	0	1	2	4	0
90°	0	0	0	0	0	

TEST NUMBER: P1308691

CATALOG NUMBER: P3SQAS02R559035DE010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	20.1	20.1	20.1	20.1	20.1	20.1	19.8	19.1	18.6	17.8	17.6
5°	23.3	23.3	23.3	23.1	23.1	22.6	21.3	19.6	18.3	17.3	17.1
7.5°	30.1	29.9	29.4	29.1	28.4	28.1	23.6	20.1	18.1	16.8	16.6
10°	46.9	46.4	45.7	42.9	40.4	38.6	26.8	20.3	17.6	16.3	16.1
12.5°	84.6	83.6	79.8	74.0	67.0	63.5	32.1	20.6	16.8	15.8	15.8
15°	141.3	140.0	133.0	125.0	112.2	105.1	40.4	20.3	16.1	15.1	15.3
17.5°	204.0	200.5	193.2	182.7	165.4	157.1	52.7	19.8	15.1	14.6	15.1
20°	265.7	264.7	252.7	238.4	217.1	206.0	68.8	19.1	14.1	13.8	14.6
22.5°	338.0	333.7	320.9	305.6	276.3	261.7	86.1	18.1	13.0	13.0	14.1
25°	394.5	389.4	379.4	361.6	333.7	318.2	103.1	16.8	11.8	12.3	13.6
27.5°	426.1	420.3	412.8	397.5	375.9	362.1	120.2	15.3	10.5	11.5	13.0
30°	440.1	438.6	433.1	421.8	402.0	389.7	137.8	13.6	9.3	10.8	12.8
32.5°	441.6	442.4	440.1	432.9	417.8	407.3	150.8	12.0	8.3	10.3	12.3
35°	432.6	435.4	436.9	433.9	424.1	415.5	156.6	10.3	7.3	9.8	12.0
37.5°	418.6	423.6	428.6	429.3	423.3	417.8	155.1	8.8	6.8	9.5	12.0
40°	401.5	406.0	416.3	422.8	420.8	416.8	147.8	7.3	6.3	9.0	11.8
42.5°	393.7	394.7	405.8	416.8	416.3	413.0	135.0	5.8	5.8	9.0	11.8
45°	396.2	391.7	399.0	411.8	411.0	406.8	112.9	4.5	5.5	8.8	11.8
47.5°	385.7	379.4	391.7	406.8	404.0	397.7	93.3	3.3	5.3	8.5	11.5
50°	375.4	374.4	383.9	391.5	387.7	384.2	67.8	2.5	5.0	8.3	11.5
52.5°	376.1	374.4	375.4	375.1	367.6	363.8	46.4	2.0	4.8	8.0	11.5
55°	348.8	343.3	338.0	339.5	340.0	337.5	26.3	1.8	4.5	8.0	11.3
57.5°	253.4	251.9	257.7	274.0	286.8	288.3	12.8	1.8	4.3	7.8	11.0
60°	214.8	213.8	214.0	218.8	225.6	221.3	5.3	1.8	4.0	7.5	10.8
62.5°	148.0	157.8	161.9	172.9	168.4	162.4	2.0	2.0	3.8	7.0	10.5
65°	59.2	59.0	64.5	69.8	68.3	63.7	1.5	1.8	3.3	6.5	9.8
67.5°	13.8	12.5	10.8	9.3	7.8	6.3	1.5	1.8	3.0	6.0	9.3
70°	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1.8	2.8	5.5	8.5
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.5	2.3	4.8	7.8
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.8	4.0	6.8
77.5°	0.8	0.8	0.8	1.0	0.8	1.0	1.0	1.3	1.5	3.3	5.8
80°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	1.0	1.3	2.8	4.5
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8	1.0	2.0	3.3
85°	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.8	0.8	1.5	2.3
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: P1308691

CATALOG NUMBER: P3SQAS02R559035DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	18.3	18.3
2.5°	17.3	17.3
5°	16.8	16.6
7.5°	16.3	16.3
10°	16.1	16.1
12.5°	15.8	16.1
15°	15.8	15.8
17.5°	15.3	15.6
20°	15.1	15.3
22.5°	14.8	15.1
25°	14.6	14.8
27.5°	14.3	14.6
30°	14.1	14.6
32.5°	13.8	14.3
35°	13.8	14.3
37.5°	13.8	14.6
40°	13.8	14.6
42.5°	13.8	14.6
45°	13.8	14.6
47.5°	13.8	14.6
50°	13.8	14.8
52.5°	13.8	14.8
55°	13.8	14.6
57.5°	13.6	14.6
60°	13.6	14.3
62.5°	13.3	14.1
65°	12.8	13.6
67.5°	12.3	13.3
70°	11.5	12.5
72.5°	10.8	11.5
75°	9.8	10.5
77.5°	8.5	9.0
80°	6.8	7.5
82.5°	5.3	5.8
85°	3.5	3.8
87.5°	1.5	1.8
90°	0.0	0.0

(END OF REPORT)