

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: P1314942

Luminaire Tested: P3SQAS02R709740DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R709740DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

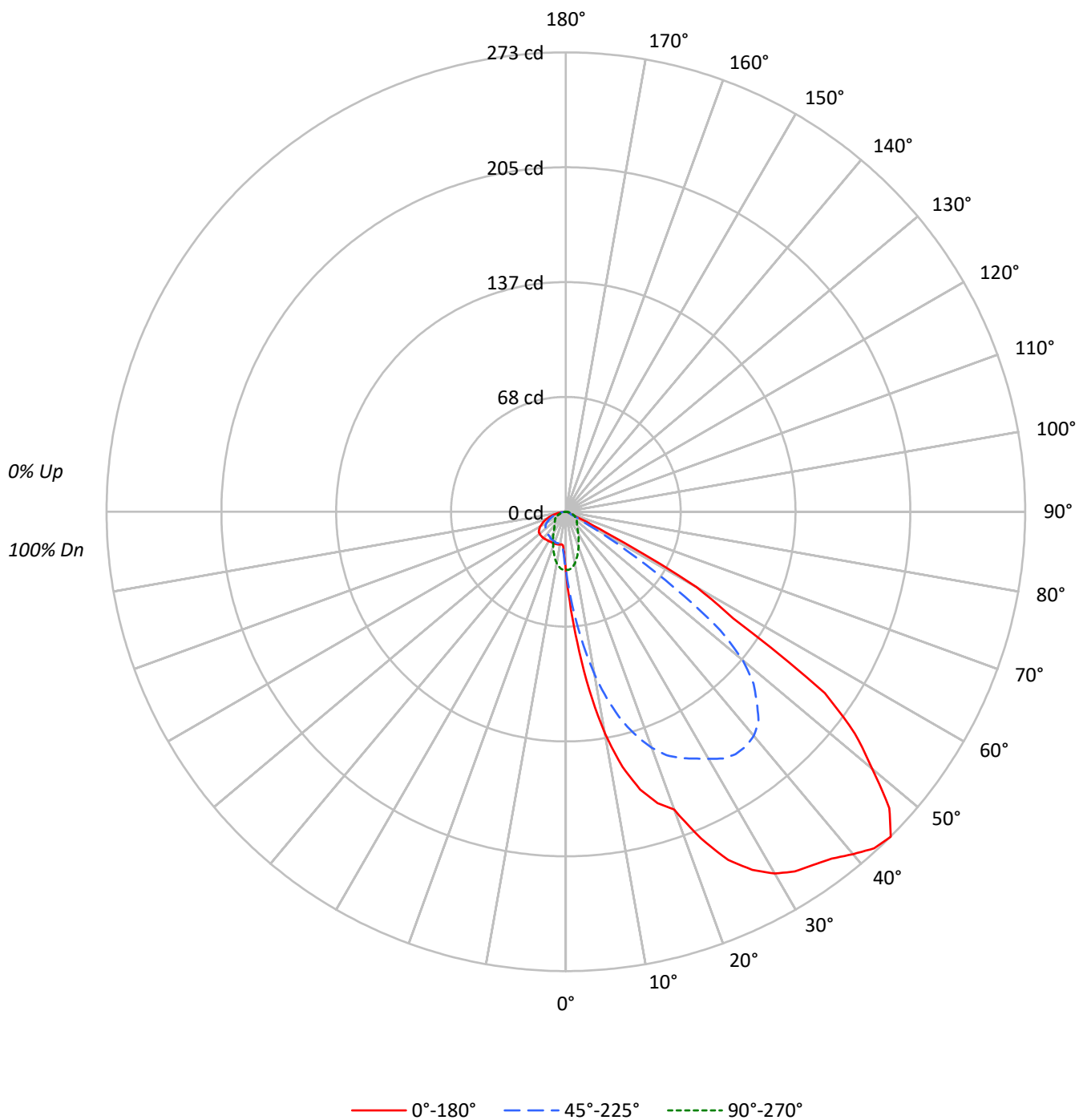
Lumens per Lamp: N/A
Luminaire Lumens: 236.0 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1314942

CATALOG NUMBER: P3SQAS02R709740DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1314942

CATALOG NUMBER: P3SQAS02R709740DE010 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	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	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75		
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54		
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47		
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31		
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28		
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5924	5924	5924	5924	5924
5°	13467	10788	5861	3700	3458
10°	23346	17138	5439	3375	3463
15°	30471	22876	4743	3441	3566
20°	34529	27363	4050	3501	3702
25°	43364	30689	3401	3534	3801
30°	49358	33708	2903	3599	4017
35°	53865	36982	2523	3658	4247
40°	59712	39074	2338	3822	4609
45°	66516	39116	2289	4019	4993
50°	63714	36787	2277	4233	5412
55°	56419	23811	2342	4444	5855
60°	30897	5098	2342	4547	6097
65°	2201	1263	2323	4523	6153
70°	1057	1209	2115	4280	5942
75°	932	1264	2063	4059	5456
80°	893	1190	1884	3769	5157
85°	988	1383	1778	3162	4742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 66516 cd/sqm

TEST NUMBER: P1314942

CATALOG NUMBER: P3SQAS02R709740DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	1.9
10°-20°	19.2	8.1
20°-30°	36.8	15.6
30°-40°	52.0	22.1
40°-50°	58.9	24.9
50°-60°	46.6	19.8
60°-70°	12.6	5.3
70°-80°	4.2	1.8
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°	60.5	25.6
0°-40°	112.5	47.7
0°-60°	218.0	92.4
0°-90°	236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	236.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	78	62	34	21	20	9
15°	171	128	27	19	20	48
25°	228	162	18	19	20	105
35°	256	176	12	17	20	161
45°	273	161	9	16	20	204
55°	188	79	8	15	20	152
65°	5	3	6	11	15	20
75°	1	2	3	6	8	2
85°	0	1	1	2	2	1
90°	0	0	0	0	0	

TEST NUMBER: P1314942

CATALOG NUMBER: P3SQAS02R709740DE010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4
2.5°	53.4	53.4	53.2	52.3	51.8	50.6	49.7	47.1	40.7	34.6	29.7
5°	77.9	79.1	77.5	77.2	75.8	73.7	72.3	62.4	47.1	33.9	25.4
7.5°	106.9	107.4	106.9	104.5	102.4	98.9	95.6	80.1	53.4	32.7	22.4
10°	133.5	132.8	131.4	129.7	126.7	122.9	117.3	98.0	59.6	31.1	20.5
12.5°	155.2	154.9	153.3	151.6	147.9	142.9	137.3	114.2	64.8	29.0	19.5
15°	170.9	170.9	169.3	167.4	163.9	159.9	153.5	128.3	69.0	26.6	18.6
17.5°	181.5	181.1	179.9	178.5	175.7	171.6	166.7	139.6	71.8	24.3	18.4
20°	188.4	188.1	187.2	185.1	182.7	179.7	175.2	149.3	73.0	22.1	18.1
22.5°	210.3	208.4	204.8	200.4	194.7	187.4	181.3	156.6	72.5	19.8	17.7
25°	228.2	227.5	223.7	218.3	210.7	201.3	191.2	161.5	70.2	17.9	17.2
27.5°	239.9	238.8	235.2	229.3	221.3	212.1	202.7	165.3	66.9	16.2	16.5
30°	248.2	247.5	243.9	237.3	229.1	219.0	209.3	169.5	62.4	14.6	15.8
32.5°	253.4	252.6	249.1	243.2	235.2	224.6	213.6	173.8	57.0	13.2	15.1
35°	256.2	255.5	251.5	246.3	238.8	228.4	216.6	175.9	50.4	12.0	14.4
37.5°	259.7	258.3	252.9	246.5	239.0	229.3	217.6	175.7	43.8	11.1	13.9
40°	265.6	261.8	254.1	245.6	237.8	228.2	216.9	173.8	36.5	10.4	13.4
42.5°	271.2	265.8	254.3	244.2	235.5	226.0	214.3	169.5	28.5	9.9	13.2
45°	273.1	265.1	251.0	240.9	232.6	223.0	210.7	160.6	19.3	9.4	12.7
47.5°	260.7	254.8	243.0	235.5	227.7	218.3	205.6	151.2	11.1	8.9	12.2
50°	237.8	234.0	227.5	222.7	218.5	211.9	199.4	137.3	6.6	8.5	11.8
52.5°	216.6	215.4	210.7	207.0	204.6	201.6	190.2	115.8	5.4	8.2	11.3
55°	187.9	184.1	183.0	181.5	186.5	186.2	170.9	79.3	5.2	7.8	10.8
57.5°	118.0	119.6	125.7	137.0	150.5	158.2	157.8	42.4	4.9	7.3	10.1
60°	89.7	89.5	91.4	96.1	106.0	117.0	127.4	14.8	4.7	6.8	9.7
62.5°	26.8	27.5	33.2	48.7	58.4	72.1	65.7	3.5	4.5	6.1	8.7
65°	5.4	5.7	5.7	6.4	7.8	11.8	14.4	3.1	4.2	5.7	8.0
67.5°	2.4	2.4	2.4	2.6	2.6	3.1	2.6	2.8	3.8	4.9	7.1
70°	2.1	2.1	2.1	2.1	2.1	2.1	2.4	2.4	3.3	4.2	6.1
72.5°	1.6	1.6	1.6	1.9	1.9	1.9	1.9	2.1	2.8	3.5	5.2
75°	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.9	2.4	3.1	4.2
77.5°	1.2	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.9	2.4	3.5
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.2	1.4	1.9	2.6
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.2	1.4	1.9
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.9	1.2
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.7
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: P1314942

CATALOG NUMBER: P3SQAS02R709740DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	34.4	34.4	34.4
2.5°	26.1	24.7	24.0
5°	21.4	20.2	20.0
7.5°	19.8	19.5	19.5
10°	19.3	19.5	19.8
12.5°	19.3	19.8	20.0
15°	19.3	19.8	20.0
17.5°	19.3	19.8	20.0
20°	19.1	19.8	20.2
22.5°	18.8	19.8	20.0
25°	18.6	19.8	20.0
27.5°	18.4	19.5	20.0
30°	18.1	19.5	20.2
32.5°	17.7	19.5	20.2
35°	17.4	19.5	20.2
37.5°	17.2	19.5	20.5
40°	17.0	19.5	20.5
42.5°	16.7	19.5	20.5
45°	16.5	19.3	20.5
47.5°	16.0	19.3	20.5
50°	15.8	19.1	20.2
52.5°	15.3	18.8	20.2
55°	14.8	18.4	19.5
57.5°	14.1	17.7	18.6
60°	13.2	16.7	17.7
62.5°	12.0	15.5	16.2
65°	11.1	14.1	15.1
67.5°	9.7	12.5	13.4
70°	8.5	10.8	11.8
72.5°	7.3	9.2	10.1
75°	6.1	7.5	8.2
77.5°	4.7	6.1	6.6
80°	3.8	4.7	5.2
82.5°	2.6	3.3	3.5
85°	1.6	2.1	2.4
87.5°	0.7	0.9	0.9
90°	0.0	0.0	0.0

(END OF REPORT)