

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: P1317637

Luminaire Tested: P3SQAS02R709835DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317637
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: P3SQAS02R709835DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

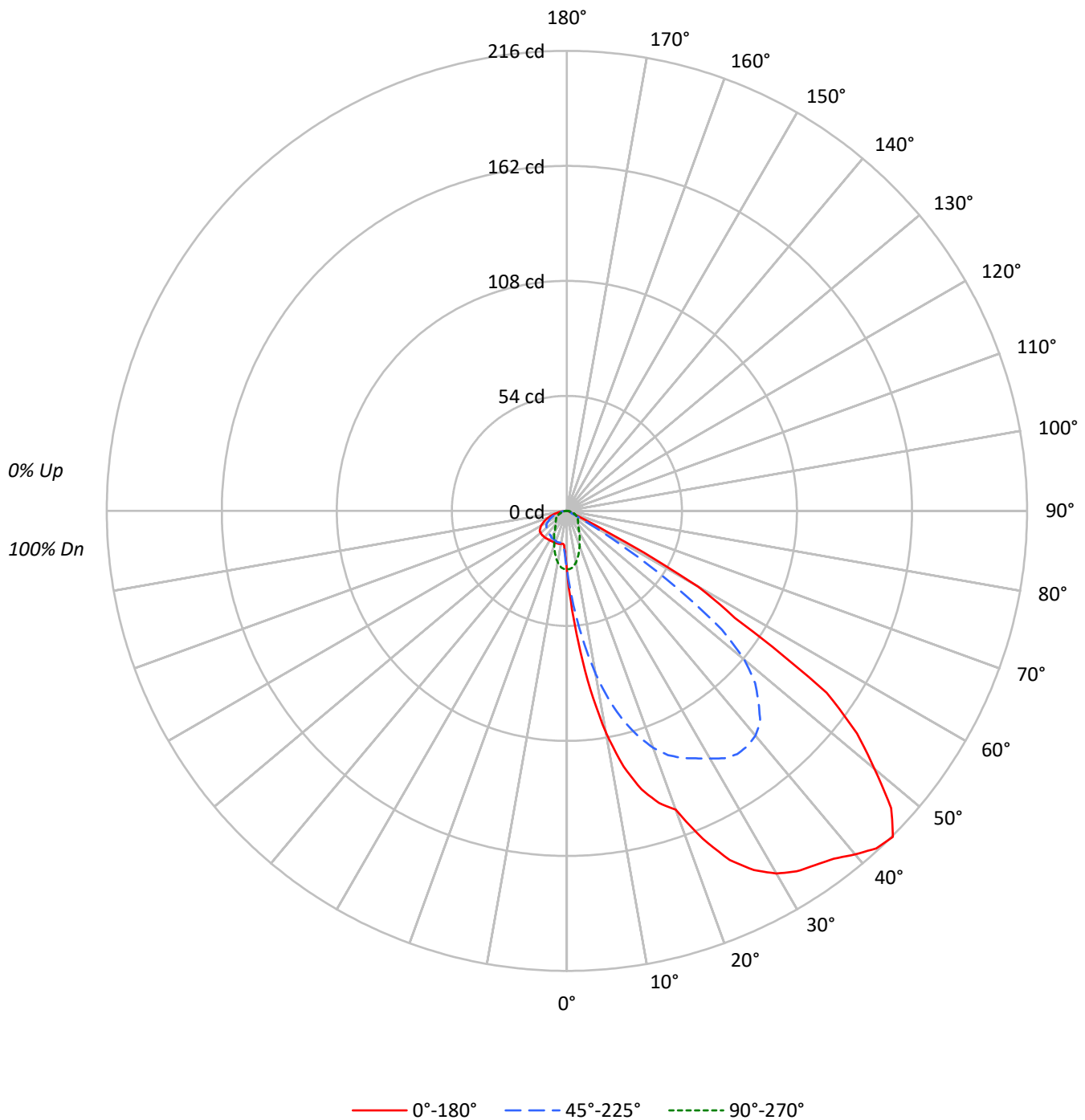
Lumens per Lamp: N/A
Luminaire Lumens: 187.0 lumens
Efficiency: N/A
Efficacy: 51.9 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1317637

CATALOG NUMBER: P3SQAS02R709835DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1317637

CATALOG NUMBER: P3SQAS02R709835DE010 E3SQCA451MMS

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	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	54	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°	4684	4684	4684	4684	4684
5°	10684	8540	4650	2939	2749
10°	18502	13571	4302	2676	2746
15°	24142	18133	3762	2728	2835
20°	27363	21681	3207	2767	2932
25°	34357	24323	2698	2793	3021
30°	39097	26708	2307	2864	3182
35°	42680	29308	1997	2901	3364
40°	47325	30958	1844	3013	3642
45°	52706	30981	1827	3191	3946
50°	50478	29151	1795	3349	4287
55°	44709	18886	1862	3543	4654
60°	24490	4064	1860	3582	4822
65°	1752	978	1834	3586	4849
70°	856	957	1712	3374	4683
75°	732	998	1597	3261	4325
80°	694	893	1488	2975	4066
85°	790	1186	1383	2569	3754

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 52706 cd/sqm

TEST NUMBER: P1317637

CATALOG NUMBER: P3SQAS02R709835DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	1.9
10°-20°	15.2	8.1
20°-30°	29.2	15.6
30°-40°	41.2	22.0
40°-50°	46.6	24.9
50°-60°	36.9	19.8
60°-70°	10.0	5.3
70°-80°	3.3	1.8
80°-90°	1.0	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°	47.9	25.6
0°-40°	89.1	47.7
0°-60°	172.7	92.4
0°-90°	187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	187.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27	27	27	27	27	
5°	62	49	27	17	16	7
15°	135	102	21	15	16	38
25°	181	128	14	15	16	83
35°	203	139	10	14	16	128
45°	216	127	8	13	16	162
55°	149	63	6	12	16	121
65°	4	2	4	9	12	15
75°	1	2	2	5	6	1
85°	0	1	1	1	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1317637

CATALOG NUMBER: P3SQAS02R709835DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
2.5°	42.4	42.4	42.2	41.4	41.0	40.1	39.4	37.3	32.3	27.4	23.5
5°	61.8	62.7	61.4	61.2	60.1	58.4	57.3	49.4	37.3	26.9	20.1
7.5°	84.7	85.1	84.7	82.8	81.2	78.4	75.7	63.4	42.4	25.9	17.7
10°	105.8	105.2	104.1	102.8	100.4	97.4	92.9	77.6	47.2	24.6	16.2
12.5°	122.9	122.8	121.5	120.2	117.2	113.2	108.8	90.5	51.3	22.9	15.5
15°	135.4	135.4	134.1	132.7	129.9	126.7	121.6	101.7	54.7	21.1	14.7
17.5°	143.8	143.5	142.5	141.4	139.2	136.0	132.1	110.6	56.9	19.2	14.6
20°	149.3	149.1	148.3	146.6	144.8	142.4	138.8	118.3	57.8	17.5	14.4
22.5°	166.6	165.1	162.3	158.8	154.3	148.5	143.7	124.1	57.5	15.7	14.0
25°	180.8	180.2	177.2	173.0	167.0	159.5	151.5	128.0	55.6	14.2	13.6
27.5°	190.1	189.2	186.4	181.7	175.4	168.1	160.6	131.0	53.0	12.9	13.1
30°	196.6	196.1	193.3	188.1	181.5	173.5	165.9	134.3	49.4	11.6	12.5
32.5°	200.7	200.2	197.4	192.7	186.4	178.0	169.2	137.7	45.1	10.4	11.9
35°	203.0	202.4	199.3	195.2	189.2	181.0	171.6	139.4	39.9	9.5	11.4
37.5°	205.8	204.7	200.4	195.3	189.4	181.7	172.4	139.2	34.7	8.8	11.0
40°	210.5	207.5	201.3	194.6	188.4	180.8	171.8	137.7	28.9	8.2	10.6
42.5°	214.9	210.6	201.5	193.5	186.6	179.1	169.8	134.3	22.6	7.8	10.4
45°	216.4	210.1	198.9	190.9	184.3	176.7	167.0	127.2	15.3	7.5	10.1
47.5°	206.5	201.9	192.5	186.6	180.4	173.0	162.9	119.8	8.8	7.1	9.7
50°	188.4	185.5	180.2	176.5	173.1	167.9	158.0	108.8	5.2	6.7	9.3
52.5°	171.6	170.7	167.0	164.0	162.1	159.7	150.7	91.8	4.3	6.5	9.0
55°	148.9	145.9	145.0	143.8	147.8	147.6	135.4	62.9	4.1	6.2	8.6
57.5°	93.5	94.8	99.6	108.6	119.2	125.4	125.0	33.6	3.9	5.8	8.0
60°	71.1	70.9	72.4	76.1	84.0	92.7	100.9	11.8	3.7	5.4	7.6
62.5°	21.3	21.8	26.3	38.6	46.3	57.1	52.1	2.8	3.5	4.9	6.9
65°	4.3	4.5	4.5	5.0	6.2	9.3	11.4	2.4	3.4	4.5	6.3
67.5°	1.9	1.9	1.9	2.1	2.1	2.4	2.1	2.2	3.0	3.9	5.6
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.9	1.9	2.6	3.4	4.9
72.5°	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.7	2.2	2.8	4.1
75°	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.5	1.9	2.4	3.4
77.5°	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.5	1.9	2.8
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.1	1.5	2.1
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.9	1.1	1.5
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.7	0.9
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.6
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: P1317637

CATALOG NUMBER: P3SQAS02R709835DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	27.2	27.2	27.2
2.5°	20.7	19.6	19.0
5°	17.0	16.0	15.9
7.5°	15.7	15.5	15.5
10°	15.3	15.5	15.7
12.5°	15.3	15.7	15.9
15°	15.3	15.7	15.9
17.5°	15.3	15.7	15.9
20°	15.1	15.7	16.0
22.5°	14.9	15.7	15.9
25°	14.7	15.7	15.9
27.5°	14.6	15.5	15.9
30°	14.4	15.5	16.0
32.5°	14.0	15.5	16.0
35°	13.8	15.5	16.0
37.5°	13.6	15.5	16.2
40°	13.4	15.5	16.2
42.5°	13.2	15.5	16.2
45°	13.1	15.3	16.2
47.5°	12.7	15.3	16.2
50°	12.5	15.1	16.0
52.5°	12.1	14.9	16.0
55°	11.8	14.6	15.5
57.5°	11.2	14.0	14.7
60°	10.4	13.2	14.0
62.5°	9.5	12.3	12.9
65°	8.8	11.2	11.9
67.5°	7.6	9.9	10.6
70°	6.7	8.6	9.3
72.5°	5.8	7.3	8.0
75°	4.9	6.0	6.5
77.5°	3.7	4.9	5.2
80°	3.0	3.7	4.1
82.5°	2.1	2.6	2.8
85°	1.3	1.7	1.9
87.5°	0.6	0.7	0.7
90°	0.0	0.0	0.0

(END OF REPORT)