

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: P1315863

Luminaire Tested: P3SQAS02R559827DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315863
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: P3SQAS02R559827DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

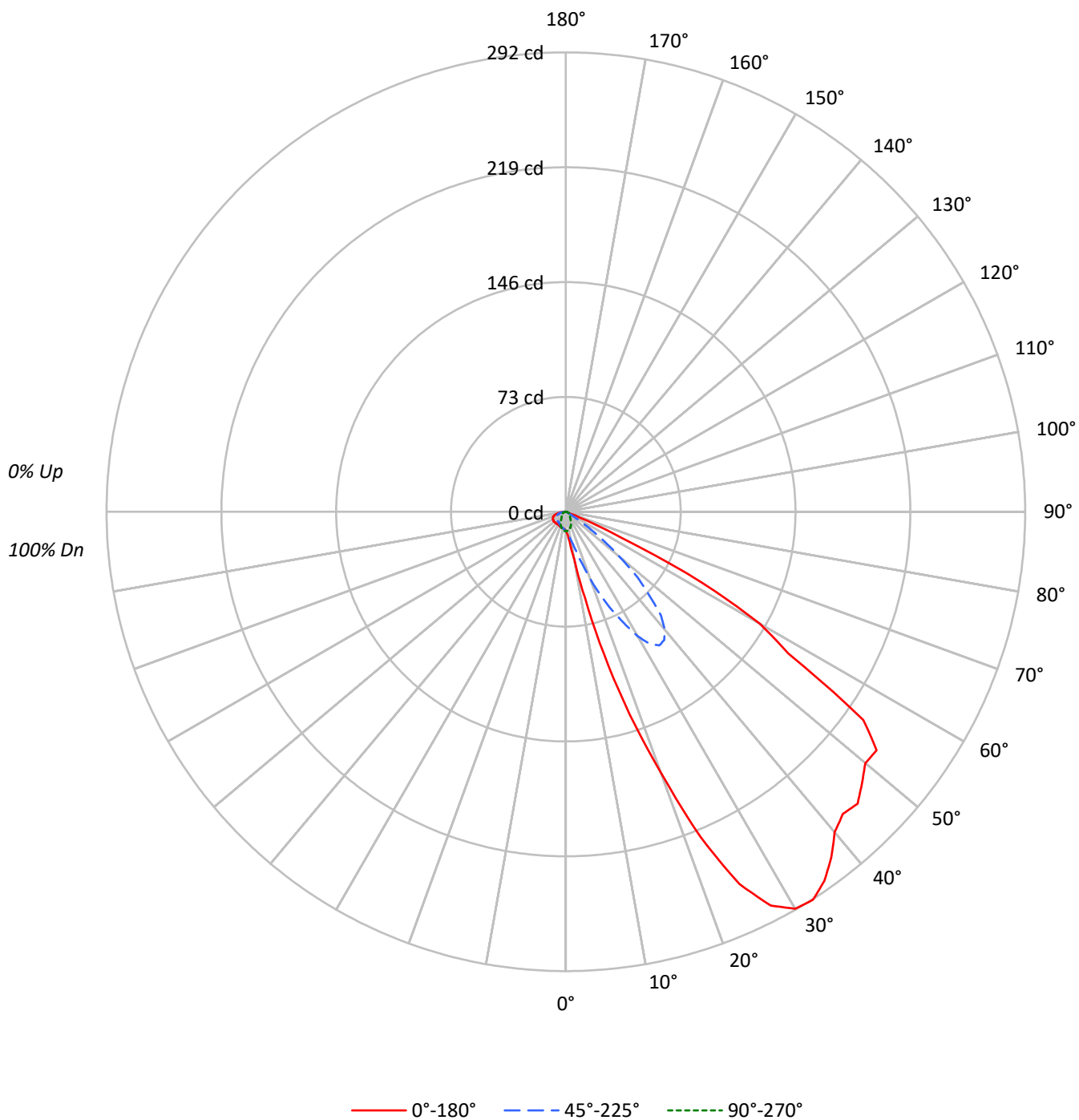
Lumens per Lamp: N/A
Luminaire Lumens: 188.0 lumens
Efficiency: N/A
Efficacy: 52.2 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1315863

CATALOG NUMBER: P3SQAS02R559827DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1315863

CATALOG NUMBER: P3SQAS02R559827DE010 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	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°	2084	2084	2084	2084	2084
5°	2662	2438	2092	1954	1902
10°	5439	3113	2029	1854	1854
15°	16671	4761	1890	1801	1872
20°	32238	8339	1704	1759	1851
25°	49616	12979	1482	1710	1862
30°	57949	18137	1213	1690	1909
35°	60214	21802	1009	1682	1997
40°	59757	21987	944	1754	2158
45°	63886	18194	901	1900	2338
50°	66581	12003	884	2036	2626
55°	69330	5225	901	2252	2883
60°	48980	1206	930	2446	3272
65°	15975	408	897	2649	3668
70°	504	403	906	2820	4179
75°	466	466	799	2994	4658
80°	298	496	793	2975	4959
85°	395	593	988	2964	4940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 70444 cd/sqm

TEST NUMBER: P1315863

CATALOG NUMBER: P3SQAS02R559827DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.7
10°-20°	8.0	4.2
20°-30°	26.8	14.2
30°-40°	43.9	23.4
40°-50°	49.0	26.1
50°-60°	41.3	21.9
60°-70°	14.0	7.4
70°-80°	2.7	1.5
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°	36.0	19.2
0°-40°	80.0	42.5
0°-60°	170.2	90.6
0°-90°	188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	188.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	15	14	12	11	11	2
15°	94	27	11	10	10	30
25°	261	68	8	9	10	117
35°	286	104	5	8	10	178
45°	262	75	4	8	10	200
55°	231	17	3	8	10	188
65°	39	1	2	6	9	53
75°	1	1	1	4	7	1
85°	0	0	0	2	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1315863

CATALOG NUMBER: P3SQAS02R559827DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
2.5°	13.3	13.3	13.3	13.3	13.3	13.3	13.1	12.6	12.3	11.8	11.6
5°	15.4	15.4	15.4	15.3	15.3	14.9	14.1	13.0	12.1	11.5	11.3
7.5°	19.9	19.8	19.4	19.3	18.8	18.6	15.6	13.3	12.0	11.1	11.0
10°	31.1	30.7	30.2	28.4	26.7	25.6	17.8	13.5	11.6	10.8	10.6
12.5°	56.0	55.3	52.8	49.0	44.4	42.0	21.3	13.6	11.1	10.5	10.5
15°	93.5	92.7	88.0	82.7	74.3	69.6	26.7	13.5	10.6	10.0	10.1
17.5°	135.0	132.7	127.9	120.9	109.5	104.0	34.9	13.1	10.0	9.6	10.0
20°	175.9	175.2	167.3	157.8	143.7	136.4	45.5	12.6	9.3	9.1	9.6
22.5°	223.7	220.9	212.5	202.3	182.9	173.3	57.0	12.0	8.6	8.6	9.3
25°	261.1	257.8	251.2	239.4	220.9	210.6	68.3	11.1	7.8	8.1	9.0
27.5°	282.1	278.2	273.2	263.1	248.8	239.7	79.6	10.1	7.0	7.6	8.6
30°	291.4	290.4	286.7	279.2	266.1	258.0	91.2	9.0	6.1	7.1	8.5
32.5°	292.4	292.9	291.4	286.5	276.6	269.6	99.8	8.0	5.5	6.8	8.1
35°	286.4	288.2	289.2	287.2	280.7	275.1	103.7	6.8	4.8	6.5	8.0
37.5°	277.1	280.4	283.7	284.2	280.2	276.6	102.7	5.8	4.5	6.3	8.0
40°	265.8	268.8	275.6	279.9	278.6	275.9	97.8	4.8	4.2	6.0	7.8
42.5°	260.6	261.3	268.6	275.9	275.6	273.4	89.4	3.8	3.8	6.0	7.8
45°	262.3	259.3	264.1	272.6	272.1	269.3	74.7	3.0	3.7	5.8	7.8
47.5°	255.3	251.2	259.3	269.3	267.4	263.3	61.8	2.2	3.5	5.6	7.6
50°	248.5	247.8	254.1	259.1	256.6	254.3	44.8	1.7	3.3	5.5	7.6
52.5°	249.0	247.8	248.5	248.3	243.4	240.9	30.7	1.3	3.2	5.3	7.6
55°	230.9	227.2	223.7	224.7	225.1	223.4	17.4	1.2	3.0	5.3	7.5
57.5°	167.8	166.8	170.6	181.4	189.9	190.9	8.5	1.2	2.8	5.1	7.3
60°	142.2	141.5	141.7	144.8	149.3	146.5	3.5	1.2	2.7	5.0	7.1
62.5°	98.0	104.5	107.1	114.4	111.5	107.5	1.3	1.3	2.5	4.7	7.0
65°	39.2	39.0	42.7	46.2	45.2	42.2	1.0	1.2	2.2	4.3	6.5
67.5°	9.1	8.3	7.1	6.1	5.1	4.2	1.0	1.2	2.0	4.0	6.1
70°	1.0	1.0	1.0	1.0	1.0	0.8	0.8	1.2	1.8	3.7	5.6
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.5	3.2	5.1
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	1.2	2.7	4.5
77.5°	0.5	0.5	0.5	0.7	0.5	0.7	0.7	0.8	1.0	2.2	3.8
80°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.7	0.8	1.8	3.0
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.7	1.3	2.2
85°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.5	0.5	1.0	1.5
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	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: P1315863

CATALOG NUMBER: P3SQAS02R559827DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	12.1	12.1
2.5°	11.5	11.5
5°	11.1	11.0
7.5°	10.8	10.8
10°	10.6	10.6
12.5°	10.5	10.6
15°	10.5	10.5
17.5°	10.1	10.3
20°	10.0	10.1
22.5°	9.8	10.0
25°	9.6	9.8
27.5°	9.5	9.6
30°	9.3	9.6
32.5°	9.1	9.5
35°	9.1	9.5
37.5°	9.1	9.6
40°	9.1	9.6
42.5°	9.1	9.6
45°	9.1	9.6
47.5°	9.1	9.6
50°	9.1	9.8
52.5°	9.1	9.8
55°	9.1	9.6
57.5°	9.0	9.6
60°	9.0	9.5
62.5°	8.8	9.3
65°	8.5	9.0
67.5°	8.1	8.8
70°	7.6	8.3
72.5°	7.1	7.6
75°	6.5	7.0
77.5°	5.6	6.0
80°	4.5	5.0
82.5°	3.5	3.8
85°	2.3	2.5
87.5°	1.0	1.2
90°	0.0	0.0

(END OF REPORT)