

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: P1307596

Luminaire Tested: P3SQAS02R709030DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307596
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: P3SQAS02R709030DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

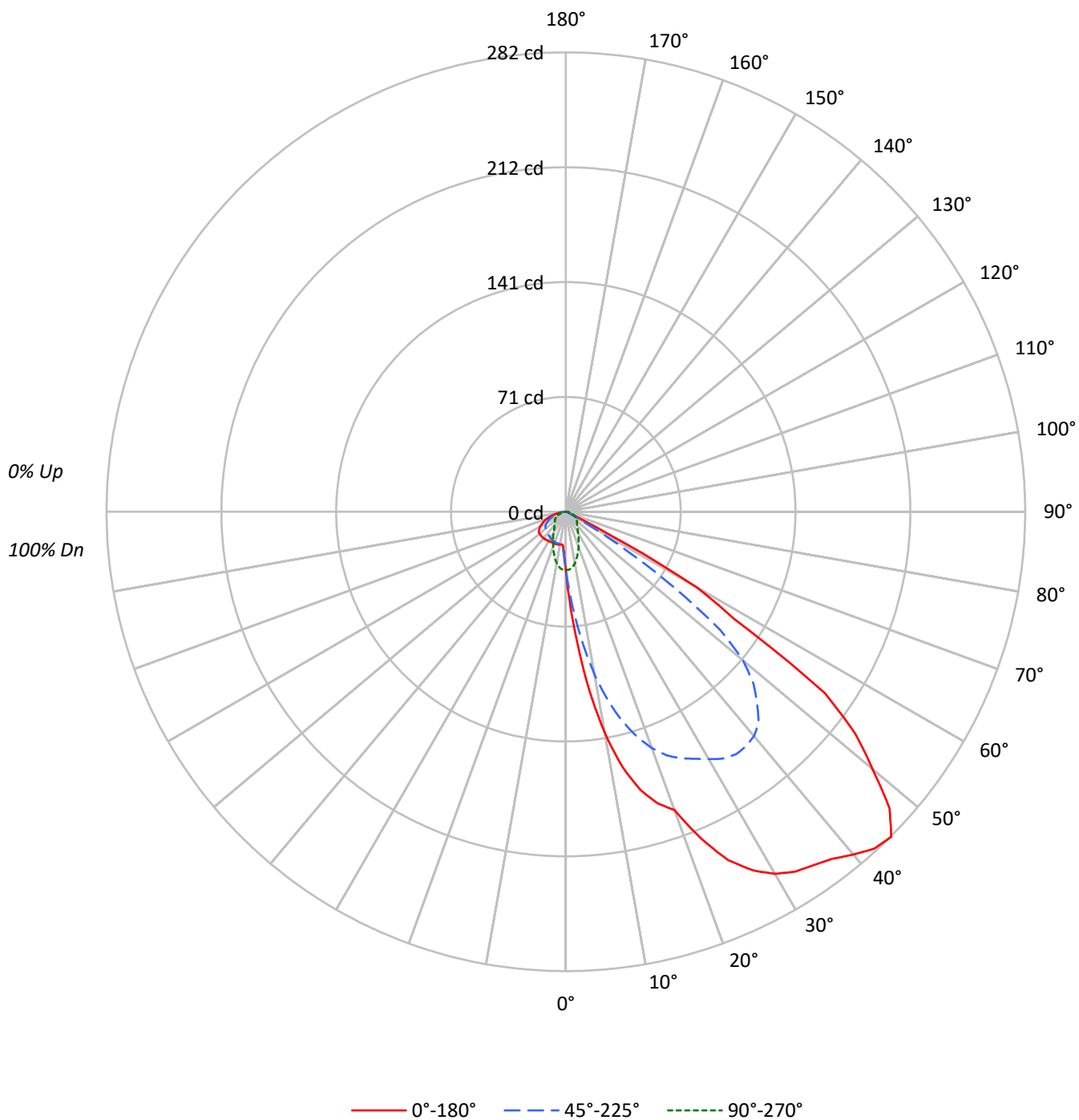
Lumens per Lamp: N/A
Luminaire Lumens: 244.0 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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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	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°	6114	6114	6114	6114	6114
5°	13934	11151	6068	3838	3579
10°	24133	17715	5614	3498	3568
15°	31505	23660	4903	3566	3691
20°	35702	28279	4197	3611	3830
25°	44827	31734	3515	3649	3934
30°	51029	34861	3003	3719	4156
35°	55694	38223	2607	3784	4394
40°	61736	40400	2406	3934	4766
45°	68781	40431	2363	4141	5163
50°	65884	38019	2358	4367	5600
55°	58341	24621	2402	4594	6065
60°	31965	5270	2446	4684	6303
65°	2282	1304	2364	4646	6357
70°	1108	1209	2216	4431	6143
75°	998	1264	2129	4192	5656
80°	992	1190	1884	3868	5356
85°	988	1383	1976	3359	4742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 68781 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	1.9
10°-20°	19.8	8.1
20°-30°	38.0	15.6
30°-40°	53.8	22.0
40°-50°	60.9	24.9
50°-60°	48.2	19.8
60°-70°	13.0	5.3
70°-80°	4.3	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°	62.5	25.6
0°-40°	116.3	47.7
0°-60°	225.4	92.4
0°-90°	244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	244.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	81	64	35	22	21	10
15°	177	133	28	20	21	50
25°	236	167	18	19	21	108
35°	265	182	12	18	21	167
45°	282	166	10	17	21	211
55°	194	82	8	15	20	158
65°	6	3	6	11	16	20
75°	2	2	3	6	8	2
85°	0	1	1	2	2	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
2.5°	55.3	55.3	55.0	54.0	53.6	52.3	51.4	48.7	42.1	35.8	30.7
5°	80.6	81.8	80.1	79.8	78.4	76.2	74.7	64.5	48.7	35.1	26.3
7.5°	110.5	111.0	110.5	108.1	105.9	102.2	98.8	82.8	55.3	33.8	23.1
10°	138.0	137.3	135.8	134.1	131.0	127.1	121.2	101.3	61.6	32.1	21.2
12.5°	160.4	160.2	158.5	156.8	152.9	147.8	141.9	118.1	66.9	29.9	20.2
15°	176.7	176.7	175.0	173.1	169.4	165.3	158.7	132.7	71.3	27.5	19.2
17.5°	187.7	187.2	186.0	184.5	181.6	177.5	172.4	144.4	74.2	25.1	19.0
20°	194.8	194.5	193.5	191.3	188.9	185.7	181.1	154.3	75.5	22.9	18.7
22.5°	217.4	215.4	211.8	207.2	201.3	193.8	187.4	161.9	75.0	20.4	18.3
25°	235.9	235.2	231.3	225.7	217.9	208.1	197.7	167.0	72.5	18.5	17.8
27.5°	248.1	246.8	243.2	237.1	228.8	219.3	209.6	170.9	69.1	16.8	17.0
30°	256.6	255.9	252.2	245.4	236.9	226.4	216.4	175.3	64.5	15.1	16.3
32.5°	261.9	261.2	257.6	251.5	243.2	232.2	220.8	179.7	58.9	13.6	15.6
35°	264.9	264.1	260.0	254.6	246.8	236.1	224.0	181.8	52.1	12.4	14.8
37.5°	268.5	267.1	261.5	254.9	247.1	237.1	224.9	181.6	45.3	11.4	14.4
40°	274.6	270.7	262.7	253.9	245.9	235.9	224.2	179.7	37.7	10.7	13.9
42.5°	280.4	274.8	262.9	252.4	243.4	233.7	221.5	175.3	29.5	10.2	13.6
45°	282.4	274.1	259.5	249.0	240.5	230.5	217.9	166.0	20.0	9.7	13.1
47.5°	269.5	263.4	251.2	243.4	235.4	225.7	212.5	156.3	11.4	9.3	12.7
50°	245.9	242.0	235.2	230.3	225.9	219.1	206.2	141.9	6.8	8.8	12.2
52.5°	224.0	222.7	217.9	214.0	211.5	208.4	196.7	119.8	5.6	8.5	11.7
55°	194.3	190.4	189.2	187.7	192.8	192.6	176.7	82.0	5.4	8.0	11.2
57.5°	122.0	123.7	130.0	141.7	155.6	163.6	163.1	43.8	5.1	7.5	10.5
60°	92.8	92.5	94.5	99.3	109.5	121.0	131.7	15.3	4.9	7.1	10.0
62.5°	27.8	28.5	34.3	50.4	60.4	74.5	67.9	3.7	4.6	6.3	9.0
65°	5.6	5.8	5.8	6.6	8.0	12.2	14.8	3.2	4.4	5.8	8.3
67.5°	2.4	2.4	2.4	2.7	2.7	3.2	2.7	2.9	3.9	5.1	7.3
70°	2.2	2.2	2.2	2.2	2.2	2.2	2.4	2.4	3.4	4.4	6.3
72.5°	1.7	1.7	1.7	1.9	1.9	1.9	1.9	2.2	2.9	3.7	5.4
75°	1.5	1.5	1.5	1.5	1.7	1.7	1.7	1.9	2.4	3.2	4.4
77.5°	1.2	1.2	1.2	1.2	1.2	1.5	1.5	1.5	1.9	2.4	3.7
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.5	1.9	2.7
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.2	1.5	1.9
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	1.0	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

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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	35.5	35.5	35.5
2.5°	27.0	25.6	24.8
5°	22.2	20.9	20.7
7.5°	20.4	20.2	20.2
10°	20.0	20.2	20.4
12.5°	20.0	20.4	20.7
15°	20.0	20.4	20.7
17.5°	20.0	20.4	20.7
20°	19.7	20.4	20.9
22.5°	19.5	20.4	20.7
25°	19.2	20.4	20.7
27.5°	19.0	20.2	20.7
30°	18.7	20.2	20.9
32.5°	18.3	20.2	20.9
35°	18.0	20.2	20.9
37.5°	17.8	20.2	21.2
40°	17.5	20.2	21.2
42.5°	17.3	20.2	21.2
45°	17.0	20.0	21.2
47.5°	16.6	20.0	21.2
50°	16.3	19.7	20.9
52.5°	15.8	19.5	20.9
55°	15.3	19.0	20.2
57.5°	14.6	18.3	19.2
60°	13.6	17.3	18.3
62.5°	12.4	16.1	16.8
65°	11.4	14.6	15.6
67.5°	10.0	12.9	13.9
70°	8.8	11.2	12.2
72.5°	7.5	9.5	10.5
75°	6.3	7.8	8.5
77.5°	4.9	6.3	6.8
80°	3.9	4.9	5.4
82.5°	2.7	3.4	3.7
85°	1.7	2.2	2.4
87.5°	0.7	1.0	1.0
90°	0.0	0.0	0.0

(END OF REPORT)