

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: P1317624

Luminaire Tested: P3SQAS02R609835DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R609835DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

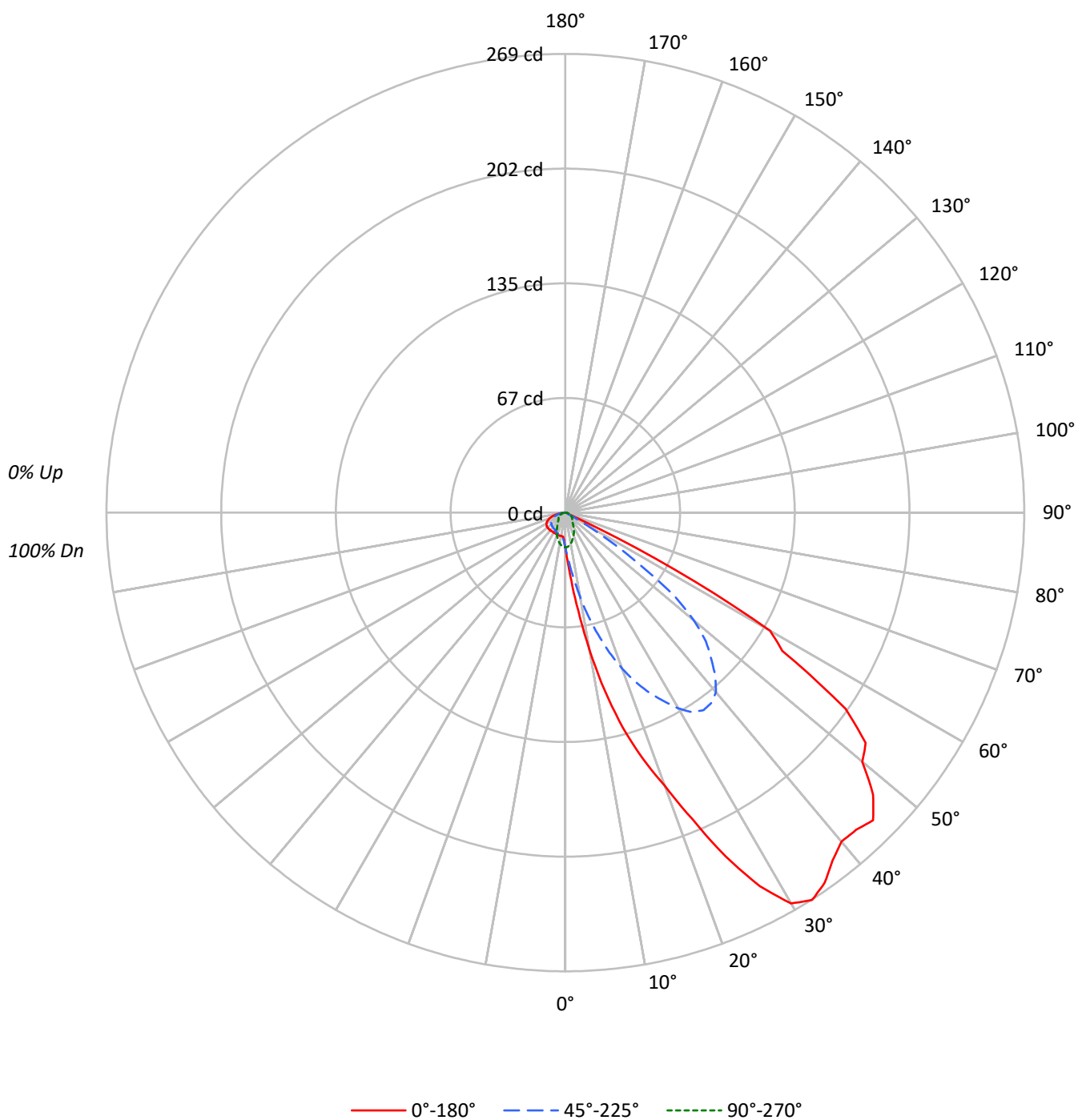
Lumens per Lamp: N/A
Luminaire Lumens: 205.0 lumens
Efficiency: N/A
Efficacy: 56.9 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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	108	104	100	97	100	97	94		96	93	91		92	90	89	87
2	101	93	87	82	98	91	86	81	88	83	79		85	81	77		82	79	76	74
3	92	82	74	68	90	81	73	68	78	72	67		75	70	65		72	68	64	62
4	84	72	64	58	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	70	57	48	42	69	56	48	42	54	47	41		53	46	41		51	45	41	39
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46	40	35	33
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		42	36	31	29
9	55	42	33	28	54	41	33	28	40	33	28		39	32	27		38	32	27	25
10	52	38	30	25	50	38	30	25	37	29	24		36	29	24		35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3496	3496	3496	3496	3496
5°	6898	5377	3440	2610	2472
10°	14235	8761	3218	2378	2413
15°	23286	13158	2888	2389	2461
20°	31248	17833	2603	2383	2493
25°	42281	22138	2261	2375	2584
30°	52620	26350	1889	2367	2705
35°	55715	29708	1598	2439	2817
40°	56610	30868	1461	2518	3058
45°	62132	29422	1413	2679	3312
50°	60901	26364	1393	2840	3644
55°	60202	16184	1411	3063	4023
60°	47740	3858	1481	3272	4374
65°	3056	693	1426	3342	4727
70°	655	755	1410	3474	4985
75°	599	732	1264	3327	5057
80°	595	694	1289	3372	4761
85°	395	790	1383	2964	4742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 65578 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	1.2
10°-20°	12.8	6.2
20°-30°	29.6	14.5
30°-40°	46.1	22.5
40°-50°	52.5	25.6
50°-60°	44.2	21.6
60°-70°	12.8	6.3
70°-80°	3.3	1.6
80°-90°	1.1	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°	45.0	21.9
0°-40°	91.0	44.4
0°-60°	187.8	91.6
0°-90°	205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	205.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	40	31	20	15	14	5
15°	131	74	16	13	14	38
25°	222	116	12	12	14	103
35°	265	141	8	12	13	165
45°	255	121	6	11	14	192
55°	200	54	5	10	13	169
65°	8	2	4	8	12	37
75°	1	1	2	5	8	1
85°	0	0	1	2	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
2.5°	27.4	27.2	27.2	27.0	26.8	26.6	26.1	25.9	24.8	22.5	20.3
5°	39.9	39.7	39.1	38.9	38.0	36.7	35.4	34.1	31.1	24.8	19.9
7.5°	57.8	58.1	57.8	55.7	54.4	52.4	48.5	45.7	39.7	27.0	19.2
10°	81.4	81.4	80.9	77.7	74.9	71.0	66.0	61.1	50.1	29.1	18.4
12.5°	107.1	107.7	104.9	102.3	97.3	92.4	85.5	78.3	62.1	30.7	17.5
15°	130.6	130.3	127.5	124.1	118.9	112.2	104.9	95.6	73.8	31.9	16.2
17.5°	151.5	150.8	148.3	144.6	138.3	130.8	121.5	111.4	85.9	32.8	15.3
20°	170.5	167.9	165.1	161.2	155.0	147.2	137.5	126.2	97.3	32.8	14.2
22.5°	194.5	191.9	188.0	182.1	173.9	164.2	152.8	139.9	107.3	32.1	13.0
25°	222.5	220.4	213.7	206.1	195.5	183.9	170.7	153.4	116.5	30.9	11.9
27.5°	246.9	244.7	238.0	226.8	213.9	200.1	186.2	168.5	124.5	28.9	10.6
30°	264.6	261.8	256.6	246.0	230.3	213.6	197.0	180.0	132.5	26.5	9.5
32.5°	269.3	268.9	265.0	257.2	243.2	224.7	205.0	186.5	138.8	23.3	8.6
35°	265.0	265.5	264.8	260.9	250.6	232.6	210.2	190.1	141.3	20.1	7.6
37.5°	257.2	257.9	259.2	259.8	253.2	237.2	213.2	191.6	140.7	17.0	7.1
40°	251.8	251.4	251.4	255.1	253.8	239.3	213.6	190.4	137.3	13.6	6.5
42.5°	252.3	248.2	245.4	251.4	253.2	238.3	211.1	187.5	130.1	10.4	6.0
45°	255.1	246.4	241.5	249.1	252.1	235.2	206.7	183.0	120.8	7.3	5.8
47.5°	244.7	238.9	238.2	249.0	250.1	229.8	199.8	175.9	111.8	5.0	5.4
50°	227.3	226.4	230.3	241.5	241.7	220.8	191.9	163.1	98.4	3.5	5.2
52.5°	221.9	222.5	226.0	231.8	226.4	205.7	177.8	152.2	81.4	2.8	5.0
55°	200.5	201.4	204.8	208.3	204.4	187.3	160.6	139.2	53.9	2.6	4.7
57.5°	150.9	153.4	159.5	162.7	163.1	152.6	145.5	120.0	30.4	2.6	4.5
60°	138.6	135.5	132.7	126.2	120.2	118.9	119.6	90.0	11.2	2.4	4.3
62.5°	72.5	71.0	75.3	78.1	78.8	82.9	77.5	47.5	2.4	2.4	3.9
65°	7.5	7.5	9.1	12.1	20.1	26.8	25.5	13.8	1.7	2.2	3.5
67.5°	2.2	2.2	2.2	2.6	3.4	3.4	2.8	2.0	1.7	2.0	3.2
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.5	1.3	1.5	1.9	2.8
72.5°	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.3	1.3	1.7	2.4
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.3	1.9
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.9	0.9	0.9	1.1	1.5
80°	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.9	1.3
82.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.7	0.9
85°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.7
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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

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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	20.3	20.3	20.3	20.3
2.5°	18.4	17.1	16.4	16.0
5°	16.8	15.1	14.5	14.3
7.5°	15.3	14.2	14.0	14.0
10°	14.3	13.6	13.8	13.8
12.5°	13.8	13.6	13.8	14.0
15°	13.2	13.4	13.8	13.8
17.5°	12.9	13.2	13.6	13.8
20°	12.3	13.0	13.6	13.6
22.5°	11.9	12.9	13.4	13.6
25°	11.6	12.5	13.2	13.6
27.5°	11.0	12.3	13.2	13.4
30°	10.4	11.9	13.0	13.6
32.5°	9.9	11.7	13.0	13.4
35°	9.5	11.6	13.0	13.4
37.5°	9.1	11.4	13.0	13.6
40°	8.9	11.2	12.9	13.6
42.5°	8.6	11.2	12.9	13.6
45°	8.4	11.0	12.9	13.6
47.5°	8.2	10.8	12.9	13.6
50°	7.8	10.6	12.7	13.6
52.5°	7.6	10.4	12.7	13.6
55°	7.3	10.2	12.5	13.4
57.5°	7.1	9.9	12.3	13.0
60°	6.7	9.5	11.9	12.7
62.5°	6.1	8.9	11.4	12.3
65°	5.6	8.2	10.8	11.6
67.5°	5.0	7.6	10.1	10.8
70°	4.5	6.9	9.1	9.9
72.5°	3.9	6.0	8.2	8.8
75°	3.4	5.0	6.9	7.6
77.5°	2.6	4.1	5.8	6.3
80°	2.0	3.4	4.5	4.8
82.5°	1.7	2.4	3.4	3.5
85°	1.1	1.5	2.0	2.4
87.5°	0.6	0.7	0.9	1.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)