

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: P1316018

Luminaire Tested: P3SQAS05R609827DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316018
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: P3SQAS05R609827DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

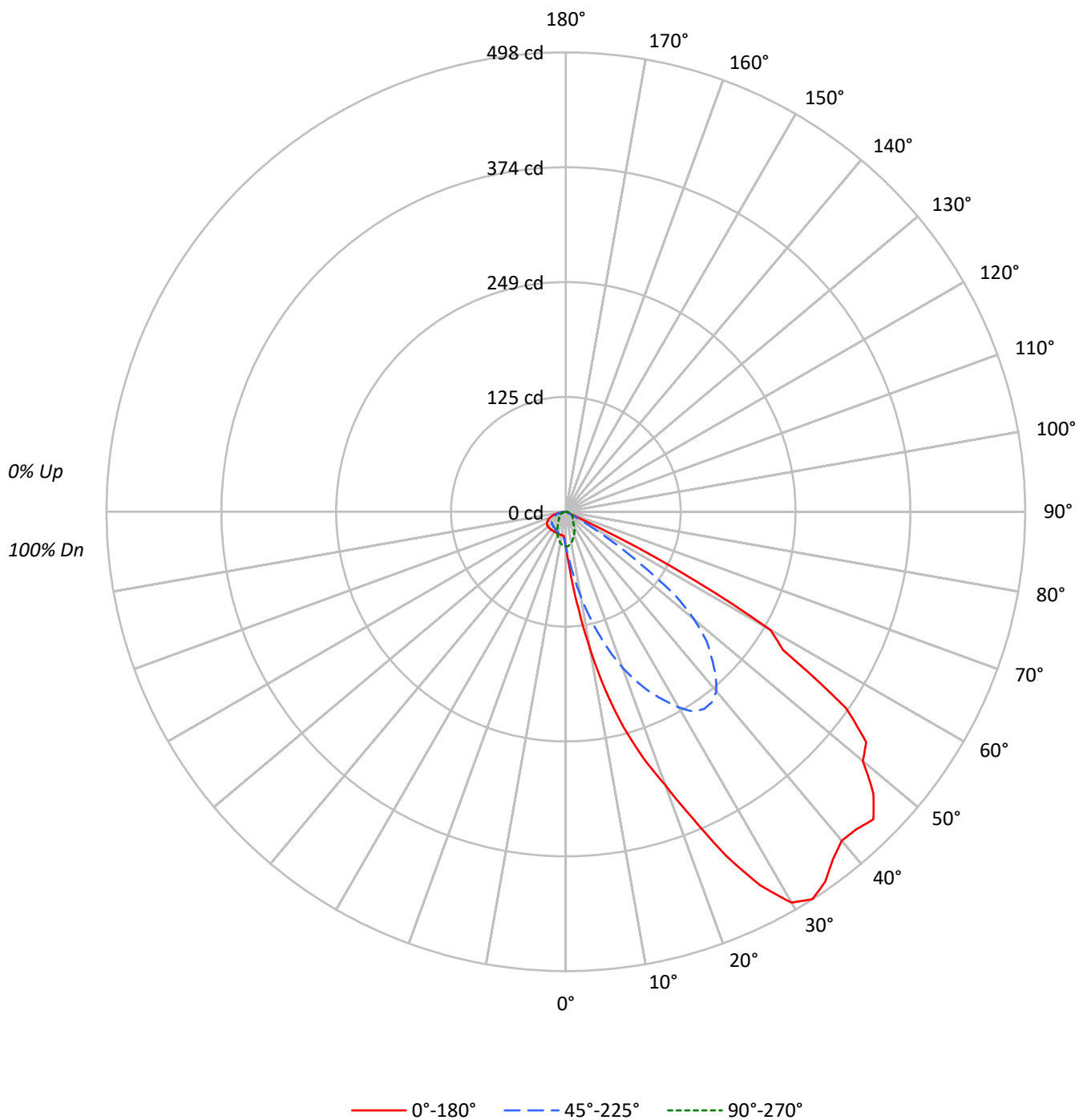
Lumens per Lamp: N/A
Luminaire Lumens: 379.0 lumens
Efficiency: N/A
Efficacy: 52.6 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P1316018

CATALOG NUMBER: P3SQAS05R609827DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1316018

CATALOG NUMBER: P3SQAS05R609827DE010 E3SQCA451MMS

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	108	104	100	97	100	97	94		96	93	91		92
2	101	93	87	82	98	91	86	81	88	83	79		85	81	77		82
3	92	82	74	68	90	81	73	68	78	72	67		75	70	65		72
4	84	72	64	58	82	71	63	57	69	62	56		66	60	56		64
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57
6	70	57	48	42	69	56	48	42	54	47	41		53	46	41		51
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		42
9	55	42	33	28	54	41	33	28	40	33	28		39	32	27		38
10	52	38	30	25	50	38	30	25	37	29	24		36	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6476	6476	6476	6476	6476
5°	12741	9941	6379	4823	4581
10°	26337	16211	5963	4389	4459
15°	43059	24320	5349	4422	4547
20°	57768	32953	4802	4417	4600
25°	78177	40913	4181	4390	4770
30°	97285	48722	3500	4375	4992
35°	102999	54895	2964	4499	5214
40°	104632	57082	2720	4654	5643
45°	114863	54363	2606	4944	6113
50°	112611	48737	2572	5251	6725
55°	111307	29906	2582	5675	7446
60°	88281	7130	2721	6062	8060
65°	5624	1263	2649	6194	8721
70°	1209	1410	2618	6395	9215
75°	1131	1397	2262	6188	9382
80°	992	1389	2380	6149	8926
85°	593	1383	2766	5533	8892

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 121254 cd/sqm

TEST NUMBER: P1316018

CATALOG NUMBER: P3SQAS05R609827DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	1.2
10°-20°	23.6	6.2
20°-30°	54.8	14.5
30°-40°	85.2	22.5
40°-50°	97.1	25.6
50°-60°	81.8	21.6
60°-70°	23.7	6.3
70°-80°	6.1	1.6
80°-90°	2.1	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°	83.1	21.9
0°-40°	168.3	44.4
0°-60°	347.1	91.6
0°-90°	379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	379.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	38	38	38	38	38	
5°	74	58	37	28	26	9
15°	242	136	30	25	26	70
25°	411	215	22	23	25	191
35°	490	261	14	21	25	304
45°	472	223	11	20	25	355
55°	371	100	9	19	25	312
65°	14	3	6	15	21	68
75°	2	2	3	9	14	2
85°	0	1	1	3	4	0
90°	0	0	0	0	0	



TEST NUMBER: P1316018

CATALOG NUMBER: P3SQAS05R609827DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
2.5°	50.6	50.3	50.3	50.0	49.6	49.3	48.2	47.9	45.8	41.7	37.6
5°	73.7	73.4	72.3	72.0	70.3	67.9	65.5	63.0	57.5	45.8	36.9
7.5°	106.8	107.5	106.8	103.0	100.6	96.8	89.6	84.4	73.4	50.0	35.5
10°	150.6	150.6	149.5	143.7	138.5	131.3	122.0	113.0	92.7	53.7	34.1
12.5°	198.1	199.1	194.0	189.1	179.8	170.9	158.1	144.7	114.7	56.8	32.4
15°	241.5	240.8	235.6	229.4	219.8	207.4	194.0	176.7	136.4	58.9	30.0
17.5°	280.1	278.7	274.2	267.3	255.6	241.9	224.6	206.0	158.8	60.6	28.3
20°	315.2	310.4	305.2	298.0	286.6	272.2	254.3	233.2	179.8	60.6	26.2
22.5°	359.7	354.9	347.6	336.6	321.4	303.5	282.5	258.7	198.4	59.3	24.1
25°	411.4	407.6	395.2	381.0	361.4	340.0	315.6	283.5	215.3	57.2	22.0
27.5°	456.5	452.3	439.9	419.3	395.5	370.0	344.2	311.4	230.1	53.4	19.6
30°	489.2	484.0	474.4	454.8	425.8	394.8	364.2	332.8	245.0	48.9	17.6
32.5°	497.8	497.1	489.9	475.4	449.6	415.5	379.0	344.9	256.7	43.1	15.8
35°	489.9	490.9	489.6	482.3	463.4	430.0	388.6	351.4	261.1	37.2	14.1
37.5°	475.4	476.8	479.2	480.3	468.2	438.6	394.1	354.2	260.1	31.4	13.1
40°	465.4	464.8	464.8	471.6	469.2	442.4	394.8	352.1	253.9	25.1	12.1
42.5°	466.5	458.9	453.7	464.8	468.2	440.6	390.3	346.6	240.5	19.3	11.0
45°	471.6	455.5	446.5	460.6	466.1	434.8	382.1	338.3	223.2	13.4	10.7
47.5°	452.3	441.7	440.3	460.3	462.3	424.8	369.3	325.2	206.7	9.3	10.0
50°	420.3	418.6	425.8	446.5	446.8	408.3	354.9	301.5	181.9	6.5	9.6
52.5°	410.3	411.4	417.9	428.6	418.6	380.3	328.7	281.5	150.6	5.2	9.3
55°	370.7	372.4	378.6	385.2	377.9	346.2	297.0	257.4	99.6	4.8	8.6
57.5°	279.1	283.5	294.9	300.8	301.5	282.2	269.1	221.9	56.2	4.8	8.3
60°	256.3	250.5	245.3	233.2	222.2	219.8	221.2	166.4	20.7	4.5	7.9
62.5°	134.0	131.3	139.2	144.4	145.7	153.3	143.3	87.9	4.5	4.5	7.2
65°	13.8	13.8	16.9	22.4	37.2	49.6	47.2	25.5	3.1	4.1	6.5
67.5°	4.1	4.1	4.1	4.8	6.2	6.2	5.2	3.8	3.1	3.8	5.9
70°	2.4	2.4	2.4	2.4	2.4	2.4	2.8	2.4	2.8	3.4	5.2
72.5°	2.1	2.1	2.1	2.1	2.4	2.4	2.4	2.4	2.4	3.1	4.5
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.1	2.1	2.4	3.4
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.7	1.7	1.7	2.1	2.8
80°	1.0	1.0	1.0	1.0	1.0	1.4	1.4	1.4	1.4	1.7	2.4
82.5°	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.4	1.7
85°	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.4
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	1.0
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: P1316018

CATALOG NUMBER: P3SQAS05R609827DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	37.6	37.6	37.6	37.6
2.5°	34.1	31.7	30.3	29.6
5°	31.0	27.9	26.9	26.5
7.5°	28.3	26.2	25.8	25.8
10°	26.5	25.1	25.5	25.5
12.5°	25.5	25.1	25.5	25.8
15°	24.5	24.8	25.5	25.5
17.5°	23.8	24.5	25.1	25.5
20°	22.7	24.1	25.1	25.1
22.5°	22.0	23.8	24.8	25.1
25°	21.4	23.1	24.5	25.1
27.5°	20.3	22.7	24.5	24.8
30°	19.3	22.0	24.1	25.1
32.5°	18.3	21.7	24.1	24.8
35°	17.6	21.4	24.1	24.8
37.5°	16.9	21.0	24.1	25.1
40°	16.5	20.7	23.8	25.1
42.5°	15.8	20.7	23.8	25.1
45°	15.5	20.3	23.8	25.1
47.5°	15.2	20.0	23.8	25.1
50°	14.5	19.6	23.4	25.1
52.5°	14.1	19.3	23.4	25.1
55°	13.4	18.9	23.1	24.8
57.5°	13.1	18.3	22.7	24.1
60°	12.4	17.6	22.0	23.4
62.5°	11.4	16.5	21.0	22.7
65°	10.3	15.2	20.0	21.4
67.5°	9.3	14.1	18.6	20.0
70°	8.3	12.7	16.9	18.3
72.5°	7.2	11.0	15.2	16.2
75°	6.2	9.3	12.7	14.1
77.5°	4.8	7.6	10.7	11.7
80°	3.8	6.2	8.3	9.0
82.5°	3.1	4.5	6.2	6.5
85°	2.1	2.8	3.8	4.5
87.5°	1.0	1.4	1.7	2.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)