

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: P1316747

Luminaire Tested: P3SQAS02R609830DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316747
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: P3SQAS02R609830DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 98CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

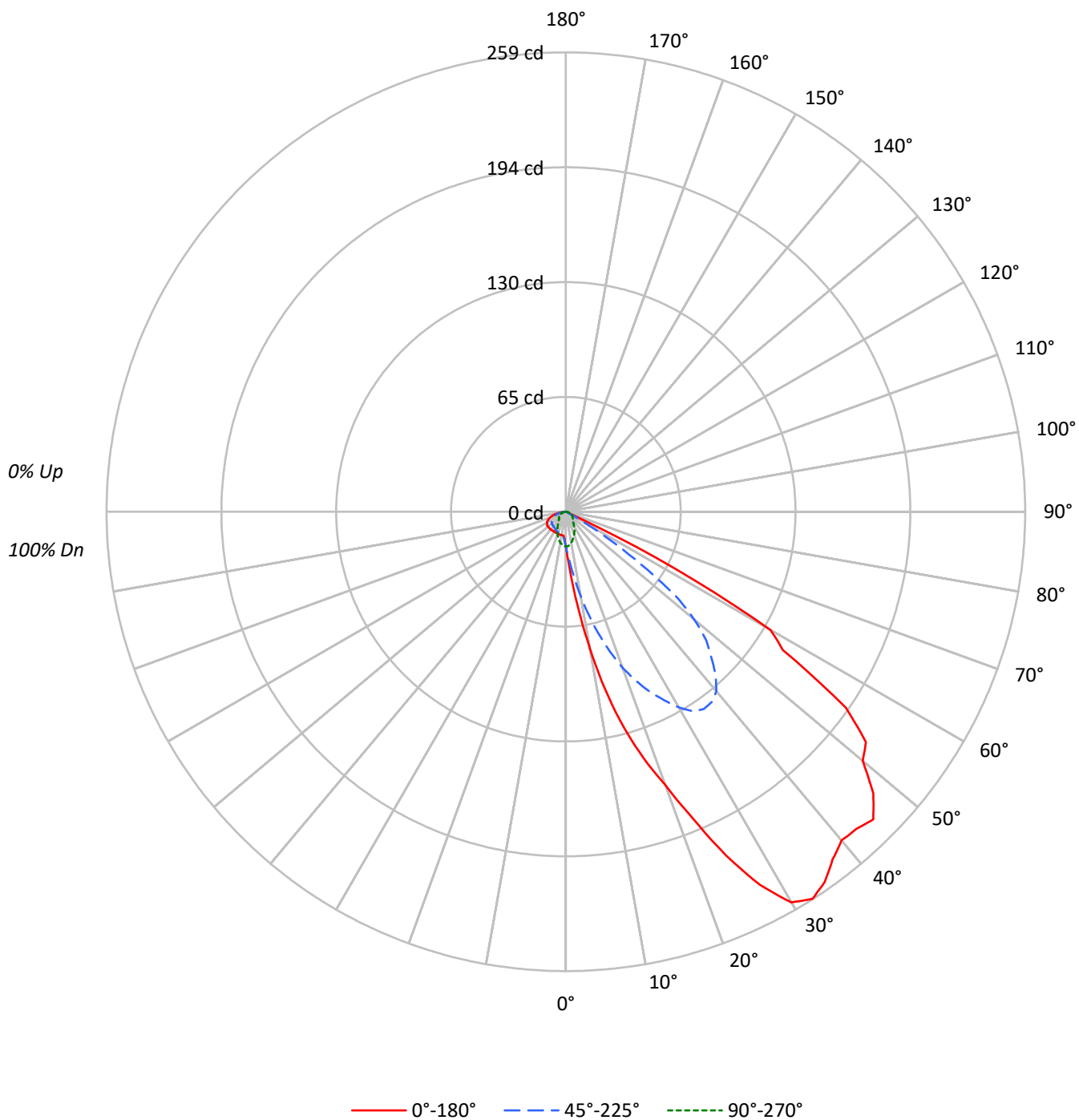
Lumens per Lamp: N/A
Luminaire Lumens: 197.0 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1316747

CATALOG NUMBER: P3SQAS02R609830DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1316747

CATALOG NUMBER: P3SQAS02R609830DE010 E3SQCA451MB

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3358	3358	3358	3358	3358
5°	6621	5169	3319	2507	2386
10°	13693	8429	3095	2291	2326
15°	22376	12641	2781	2300	2371
20°	30039	17136	2493	2291	2401
25°	40628	21264	2185	2280	2489
30°	50572	25316	1810	2287	2605
35°	53528	28530	1535	2334	2712
40°	54384	29676	1416	2406	2945
45°	59721	28253	1364	2582	3191
50°	58543	25346	1340	2733	3510
55°	57860	15554	1351	2943	3873
60°	45880	3686	1412	3134	4202
65°	2934	652	1386	3219	4523
70°	655	705	1360	3323	4784
75°	599	732	1198	3194	4858
80°	496	694	1289	3174	4661
85°	395	790	1383	2766	4545

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 63032 cd/sqm

TEST NUMBER: P1316747

CATALOG NUMBER: P3SQAS02R609830DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	1.2
10°-20°	12.3	6.2
20°-30°	28.5	14.5
30°-40°	44.3	22.5
40°-50°	50.5	25.6
50°-60°	42.5	21.6
60°-70°	12.3	6.3
70°-80°	3.2	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°	43.2	21.9
0°-40°	87.5	44.4
0°-60°	180.4	91.6
0°-90°	197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	197.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	38	30	19	14	14	5
15°	126	71	16	13	13	36
25°	214	112	12	12	13	99
35°	255	136	7	11	13	158
45°	245	116	6	11	13	184
55°	193	52	4	10	13	162
65°	7	2	3	8	11	35
75°	1	1	2	5	7	1
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1316747

CATALOG NUMBER: P3SQAS02R609830DE010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
2.5°	26.3	26.1	26.1	26.0	25.8	25.6	25.1	24.9	23.8	21.7	19.5
5°	38.3	38.1	37.6	37.4	36.5	35.3	34.0	32.8	29.9	23.8	19.2
7.5°	55.5	55.9	55.5	53.5	52.3	50.3	46.6	43.9	38.1	26.0	18.4
10°	78.3	78.3	77.7	74.7	72.0	68.2	63.4	58.7	48.2	27.9	17.7
12.5°	103.0	103.5	100.8	98.3	93.5	88.8	82.2	75.2	59.6	29.5	16.8
15°	125.5	125.2	122.5	119.3	114.3	107.8	100.8	91.9	70.9	30.6	15.6
17.5°	145.6	144.9	142.5	139.0	132.9	125.7	116.8	107.1	82.6	31.5	14.7
20°	163.9	161.3	158.7	154.9	149.0	141.5	132.2	121.2	93.5	31.5	13.6
22.5°	187.0	184.4	180.7	175.0	167.1	157.8	146.8	134.5	103.1	30.8	12.5
25°	213.8	211.8	205.4	198.1	187.9	176.7	164.0	147.4	111.9	29.7	11.5
27.5°	237.3	235.1	228.7	217.9	205.6	192.3	178.9	161.9	119.6	27.8	10.2
30°	254.3	251.6	246.6	236.4	221.3	205.2	189.3	173.0	127.3	25.4	9.1
32.5°	258.8	258.4	254.6	247.1	233.7	216.0	197.0	179.3	133.4	22.4	8.2
35°	254.6	255.2	254.5	250.7	240.9	223.5	202.0	182.7	135.7	19.3	7.3
37.5°	247.1	247.8	249.1	249.6	243.4	228.0	204.9	184.1	135.2	16.3	6.8
40°	241.9	241.6	241.6	245.2	243.9	229.9	205.2	183.0	132.0	13.1	6.3
42.5°	242.5	238.5	235.8	241.6	243.4	229.0	202.9	180.2	125.0	10.0	5.7
45°	245.2	236.7	232.1	239.4	242.3	226.0	198.6	175.9	116.0	7.0	5.6
47.5°	235.1	229.6	228.9	239.2	240.3	220.8	192.0	169.0	107.4	4.8	5.2
50°	218.5	217.6	221.3	232.1	232.3	212.2	184.4	156.7	94.6	3.4	5.0
52.5°	213.3	213.8	217.2	222.8	217.6	197.7	170.8	146.3	78.3	2.7	4.8
55°	192.7	193.6	196.8	200.2	196.4	180.0	154.4	133.8	51.8	2.5	4.5
57.5°	145.1	147.4	153.3	156.3	156.7	146.7	139.9	115.3	29.2	2.5	4.3
60°	133.2	130.2	127.5	121.2	115.5	114.3	115.0	86.5	10.7	2.3	4.1
62.5°	69.7	68.2	72.3	75.0	75.7	79.7	74.5	45.7	2.3	2.3	3.8
65°	7.2	7.2	8.8	11.6	19.3	25.8	24.5	13.3	1.6	2.1	3.4
67.5°	2.1	2.1	2.1	2.5	3.2	3.2	2.7	2.0	1.6	2.0	3.0
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.3	1.4	1.8	2.7
72.5°	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.3	1.3	1.6	2.3
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.3	1.8
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.9	0.9	0.9	1.1	1.4
80°	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.9	1.3
82.5°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.7	0.9
85°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.7
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.5
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: P1316747

CATALOG NUMBER: P3SQAS02R609830DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	19.5	19.5	19.5	19.5
2.5°	17.7	16.5	15.8	15.4
5°	16.1	14.5	14.0	13.8
7.5°	14.7	13.6	13.4	13.4
10°	13.8	13.1	13.3	13.3
12.5°	13.3	13.1	13.3	13.4
15°	12.7	12.9	13.3	13.3
17.5°	12.4	12.7	13.1	13.3
20°	11.8	12.5	13.1	13.1
22.5°	11.5	12.4	12.9	13.1
25°	11.1	12.0	12.7	13.1
27.5°	10.6	11.8	12.7	12.9
30°	10.0	11.5	12.5	13.1
32.5°	9.5	11.3	12.5	12.9
35°	9.1	11.1	12.5	12.9
37.5°	8.8	10.9	12.5	13.1
40°	8.6	10.7	12.4	13.1
42.5°	8.2	10.7	12.4	13.1
45°	8.1	10.6	12.4	13.1
47.5°	7.9	10.4	12.4	13.1
50°	7.5	10.2	12.2	13.1
52.5°	7.3	10.0	12.2	13.1
55°	7.0	9.8	12.0	12.9
57.5°	6.8	9.5	11.8	12.5
60°	6.4	9.1	11.5	12.2
62.5°	5.9	8.6	10.9	11.8
65°	5.4	7.9	10.4	11.1
67.5°	4.8	7.3	9.7	10.4
70°	4.3	6.6	8.8	9.5
72.5°	3.8	5.7	7.9	8.4
75°	3.2	4.8	6.6	7.3
77.5°	2.5	3.9	5.6	6.1
80°	2.0	3.2	4.3	4.7
82.5°	1.6	2.3	3.2	3.4
85°	1.1	1.4	2.0	2.3
87.5°	0.5	0.7	0.9	1.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)