

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: P1306789

Luminaire Tested: P3SQAS09R609027DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306789
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: P3SQAS09R609027DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

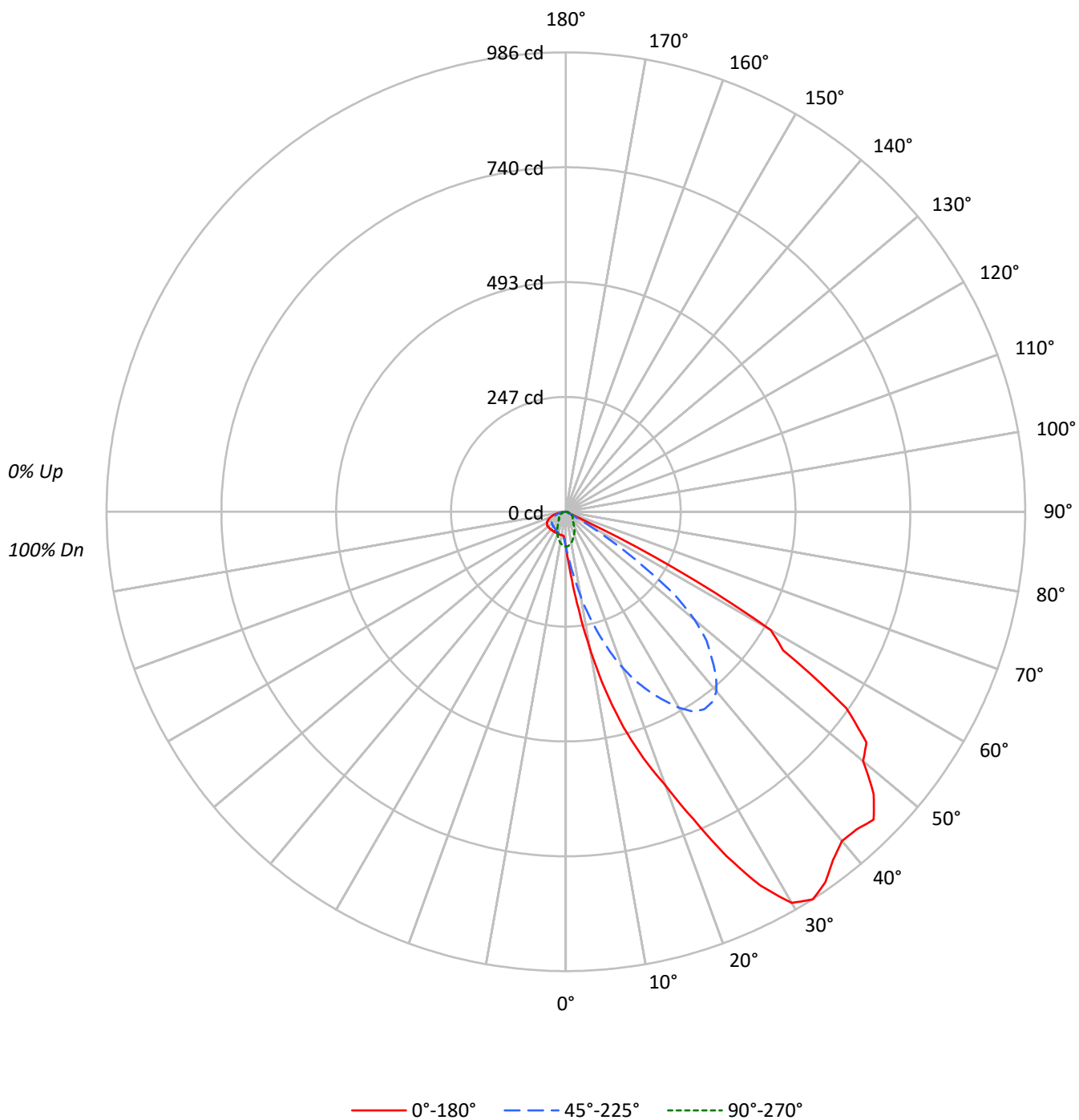
Lumens per Lamp: N/A
Luminaire Lumens: 751.0 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	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°	12813	12813	12813	12813	12813
5°	25258	19708	12620	9560	9094
10°	52167	32108	11822	8709	8831
15°	85333	48194	10591	8772	9004
20°	114474	65319	9512	8761	9127
25°	154891	81084	8304	8684	9463
30°	192780	96529	6921	8690	9904
35°	204106	108802	5887	8893	10344
40°	207352	113107	5373	9218	11196
45°	227631	107751	5163	9815	12129
50°	223160	96562	5117	10423	13343
55°	220572	59241	5134	11260	14773
60°	174944	14122	5408	11987	15982
65°	11125	2486	5298	12225	17238
70°	2417	2769	5136	12740	18228
75°	2262	2728	4525	12244	18632
80°	1984	2678	4761	12199	17555
85°	1383	2766	5335	10868	17587

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 240244 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	1.2
10°-20°	46.8	6.2
20°-30°	108.6	14.5
30°-40°	168.8	22.5
40°-50°	192.4	25.6
50°-60°	162.0	21.6
60°-70°	47.0	6.3
70°-80°	12.0	1.6
80°-90°	4.1	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°	164.7	21.9
0°-40°	333.5	44.4
0°-60°	687.9	91.6
0°-90°	751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	751.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	74	74	74	74	74	
5°	146	114	73	55	53	19
15°	479	270	59	49	50	138
25°	815	427	44	46	50	379
35°	971	518	28	42	49	603
45°	935	442	21	40	50	703
55°	735	197	17	38	49	618
65°	27	6	13	30	42	135
75°	3	4	7	18	28	4
85°	1	1	3	6	9	1
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°	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
2.5°	100.4	99.7	99.7	99.0	98.3	97.6	95.6	94.9	90.8	82.6	74.4
5°	146.1	145.4	143.4	142.7	139.3	134.5	129.7	124.9	114.0	90.8	73.0
7.5°	211.6	213.0	211.6	204.1	199.3	191.8	177.5	167.3	145.4	99.0	70.3
10°	298.3	298.3	296.3	284.7	274.4	260.1	241.7	223.9	183.6	106.5	67.6
12.5°	392.5	394.6	384.3	374.8	356.4	338.6	313.3	286.7	227.3	112.6	64.2
15°	478.6	477.2	466.9	454.7	435.5	411.0	384.3	350.2	270.3	116.7	59.4
17.5°	555.0	552.3	543.4	529.8	506.5	479.2	445.1	408.2	314.7	120.1	56.0
20°	624.6	615.1	604.8	590.5	568.0	539.3	503.8	462.2	356.4	120.1	51.9
22.5°	712.7	703.1	688.8	667.0	636.9	601.4	559.8	512.7	393.2	117.4	47.8
25°	815.1	807.6	783.0	755.0	716.1	673.8	625.3	561.8	426.7	113.3	43.7
27.5°	904.5	896.3	871.8	830.8	783.7	733.2	682.0	617.1	456.0	105.8	38.9
30°	969.4	959.1	940.0	901.1	843.8	782.3	721.6	659.5	485.4	96.9	34.8
32.5°	986.5	985.1	970.8	942.1	890.9	823.3	750.9	683.4	508.6	85.3	31.4
35°	970.8	972.8	970.1	955.7	918.2	852.0	770.1	696.3	517.5	73.7	28.0
37.5°	942.1	944.8	949.6	951.6	927.7	869.0	781.0	701.8	515.4	62.1	25.9
40°	922.3	920.9	920.9	934.6	929.8	876.5	782.3	697.7	503.1	49.8	23.9
42.5°	924.3	909.3	899.1	920.9	927.7	873.1	773.5	686.8	476.5	38.2	21.8
45°	934.6	902.5	884.7	912.7	923.7	861.5	757.1	670.4	442.4	26.6	21.2
47.5°	896.3	875.2	872.5	912.0	916.1	841.7	731.8	644.4	409.6	18.4	19.8
50°	832.9	829.4	843.8	884.7	885.4	809.0	703.1	597.3	360.4	13.0	19.1
52.5°	813.1	815.1	828.1	849.2	829.4	753.7	651.3	557.7	298.3	10.2	18.4
55°	734.6	738.0	750.3	763.2	748.9	686.1	588.5	510.0	197.3	9.6	17.1
57.5°	553.0	561.8	584.4	596.0	597.3	559.1	533.2	439.6	111.3	9.6	16.4
60°	507.9	496.3	486.1	462.2	440.3	435.5	438.3	329.7	41.0	8.9	15.7
62.5°	265.6	260.1	275.8	286.0	288.8	303.8	284.0	174.1	8.9	8.9	14.3
65°	27.3	27.3	33.5	44.4	73.7	98.3	93.5	50.5	6.1	8.2	13.0
67.5°	8.2	8.2	8.2	9.6	12.3	12.3	10.2	7.5	6.1	7.5	11.6
70°	4.8	4.8	4.8	4.8	4.8	4.8	5.5	4.8	5.5	6.8	10.2
72.5°	4.1	4.1	4.1	4.1	4.8	4.8	4.8	4.8	4.8	6.1	8.9
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.1	4.1	4.8	6.8
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	3.4	3.4	3.4	4.1	5.5
80°	2.0	2.0	2.0	2.0	2.0	2.7	2.7	2.7	2.7	3.4	4.8
82.5°	1.4	1.4	1.4	1.4	2.0	2.0	2.0	2.0	2.0	2.7	3.4
85°	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.7
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.0
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°	74.4	74.4	74.4	74.4
2.5°	67.6	62.8	60.1	58.7
5°	61.4	55.3	53.2	52.6
7.5°	56.0	51.9	51.2	51.2
10°	52.6	49.8	50.5	50.5
12.5°	50.5	49.8	50.5	51.2
15°	48.5	49.2	50.5	50.5
17.5°	47.1	48.5	49.8	50.5
20°	45.1	47.8	49.8	49.8
22.5°	43.7	47.1	49.2	49.8
25°	42.3	45.7	48.5	49.8
27.5°	40.3	45.1	48.5	49.2
30°	38.2	43.7	47.8	49.8
32.5°	36.2	43.0	47.8	49.2
35°	34.8	42.3	47.8	49.2
37.5°	33.5	41.6	47.8	49.8
40°	32.8	41.0	47.1	49.8
42.5°	31.4	41.0	47.1	49.8
45°	30.7	40.3	47.1	49.8
47.5°	30.0	39.6	47.1	49.8
50°	28.7	38.9	46.4	49.8
52.5°	28.0	38.2	46.4	49.8
55°	26.6	37.5	45.7	49.2
57.5°	25.9	36.2	45.1	47.8
60°	24.6	34.8	43.7	46.4
62.5°	22.5	32.8	41.6	45.1
65°	20.5	30.0	39.6	42.3
67.5°	18.4	28.0	36.9	39.6
70°	16.4	25.3	33.5	36.2
72.5°	14.3	21.8	30.0	32.1
75°	12.3	18.4	25.3	28.0
77.5°	9.6	15.0	21.2	23.2
80°	7.5	12.3	16.4	17.7
82.5°	6.1	8.9	12.3	13.0
85°	4.1	5.5	7.5	8.9
87.5°	2.0	2.7	3.4	4.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)