

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: P1305818

Luminaire Tested: P3SQAS09R609024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305818
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: P3SQAS09R609024DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

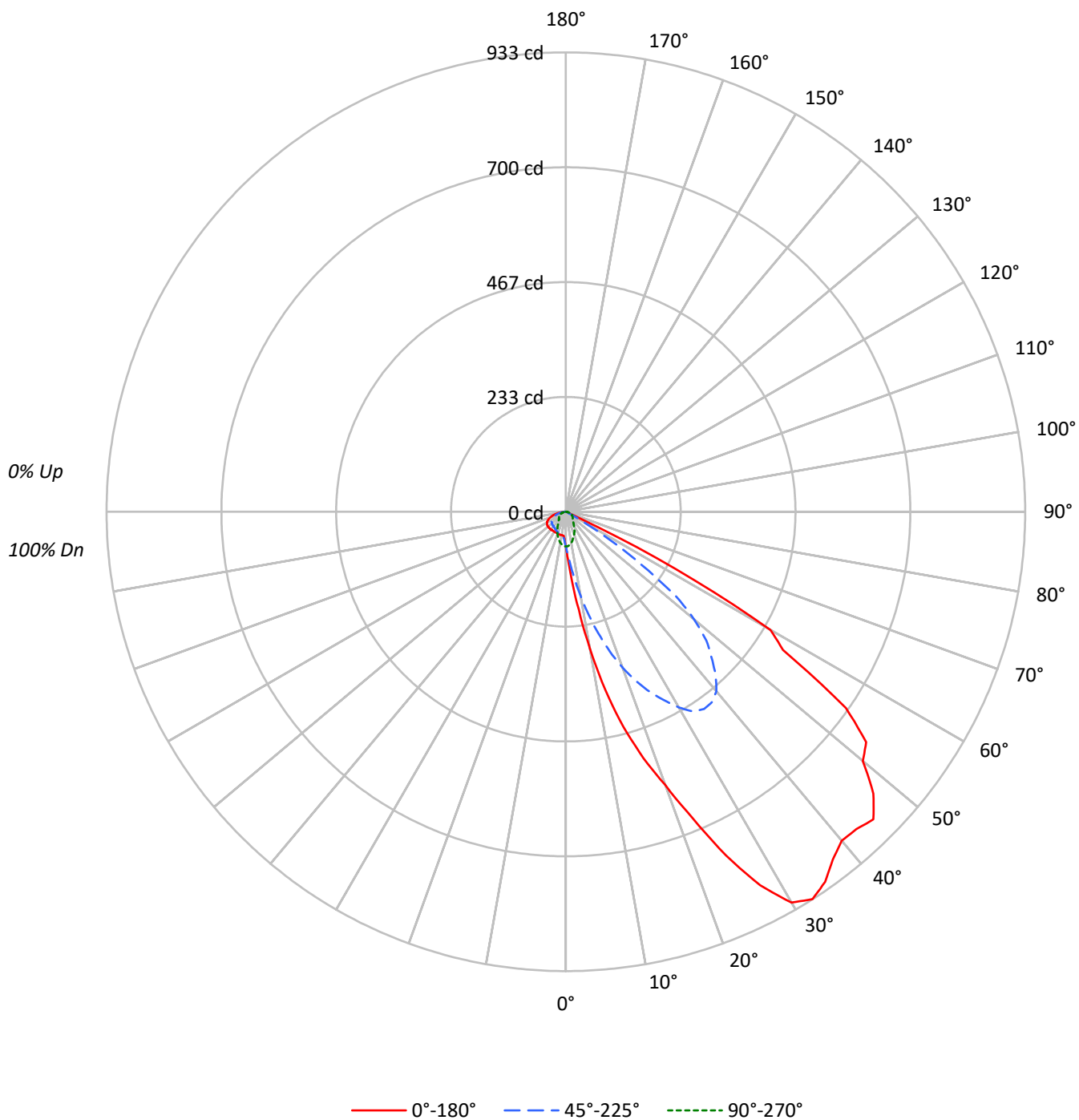
Lumens per Lamp: N/A
Luminaire Lumens: 710.0 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	12107	12107	12107	12107	12107
5°	23875	18637	11946	9042	8592
10°	49316	30359	11175	8237	8359
15°	80662	45573	10003	8291	8523
20°	108224	61746	8999	8284	8632
25°	146435	76657	7848	8209	8950
30°	182260	91259	6543	8213	9367
35°	192963	102852	5571	8410	9776
40°	196021	106947	5081	8701	10589
45°	215209	101857	4871	9280	11472
50°	210969	91311	4850	9860	12620
55°	208501	55999	4834	10659	13962
60°	165403	13330	5098	11332	15121
65°	10514	2364	5012	11573	16301
70°	2266	2618	4884	12035	17221
75°	2129	2595	4325	11578	17634
80°	1884	2579	4463	11505	16662
85°	1186	2569	5138	10275	16599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 227146 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	1.2
10°-20°	44.3	6.2
20°-30°	102.7	14.5
30°-40°	159.6	22.5
40°-50°	181.9	25.6
50°-60°	153.2	21.6
60°-70°	44.4	6.3
70°-80°	11.4	1.6
80°-90°	3.8	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°	155.7	21.9
0°-40°	315.3	44.4
0°-60°	650.3	91.6
0°-90°	710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	710.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	70	70	70	70	70	
5°	138	108	69	52	50	18
15°	452	256	56	46	48	131
25°	771	403	41	43	47	358
35°	918	489	26	40	46	570
45°	884	418	20	38	47	664
55°	694	186	16	36	46	584
65°	26	6	12	28	40	128
75°	3	4	6	17	26	3
85°	1	1	3	5	8	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°	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
2.5°	94.9	94.2	94.2	93.6	92.9	92.3	90.4	89.7	85.8	78.1	70.3
5°	138.1	137.5	135.5	134.9	131.7	127.1	122.6	118.1	107.8	85.8	69.1
7.5°	200.1	201.4	200.1	193.0	188.5	181.4	167.8	158.1	137.5	93.6	66.5
10°	282.0	282.0	280.1	269.1	259.5	245.9	228.5	211.7	173.6	100.7	63.9
12.5°	371.1	373.0	363.4	354.3	336.9	320.1	296.2	271.1	214.9	106.5	60.7
15°	452.4	451.1	441.5	429.8	411.8	388.5	363.4	331.1	255.6	110.4	56.1
17.5°	524.7	522.1	513.7	500.8	478.9	453.1	420.8	385.9	297.5	113.6	52.9
20°	590.5	581.5	571.8	558.3	537.0	509.9	476.3	436.9	336.9	113.6	49.1
22.5°	673.8	664.8	651.2	630.6	602.2	568.6	529.2	484.7	371.8	111.0	45.2
25°	770.6	763.5	740.3	713.8	677.0	637.0	591.2	531.2	403.4	107.1	41.3
27.5°	855.2	847.4	824.2	785.5	740.9	693.2	644.8	583.4	431.1	100.0	36.8
30°	916.5	906.8	888.7	851.9	797.7	739.6	682.2	623.5	458.9	91.6	32.9
32.5°	932.6	931.3	917.8	890.7	842.2	778.4	709.9	646.0	480.8	80.7	29.7
35°	917.8	919.7	917.1	903.6	868.1	805.5	728.0	658.3	489.2	69.7	26.5
37.5°	890.7	893.2	897.8	899.7	877.1	821.6	738.3	663.5	487.3	58.7	24.5
40°	871.9	870.6	870.6	883.6	879.0	828.7	739.6	659.6	475.7	47.1	22.6
42.5°	873.9	859.7	850.0	870.6	877.1	825.5	731.2	649.3	450.5	36.1	20.7
45°	883.6	853.2	836.4	862.9	873.2	814.5	715.7	633.8	418.2	25.2	20.0
47.5°	847.4	827.4	824.8	862.3	866.1	795.8	691.9	609.3	387.2	17.4	18.7
50°	787.4	784.2	797.7	836.4	837.1	764.8	664.8	564.7	340.8	12.3	18.1
52.5°	768.7	770.6	782.9	802.9	784.2	712.5	615.7	527.3	282.0	9.7	17.4
55°	694.4	697.7	709.3	721.6	708.0	648.6	556.3	482.1	186.5	9.0	16.1
57.5°	522.8	531.2	552.5	563.4	564.7	528.6	504.1	415.6	105.2	9.0	15.5
60°	480.2	469.2	459.5	436.9	416.3	411.8	414.3	311.7	38.7	8.4	14.8
62.5°	251.1	245.9	260.7	270.4	273.0	287.2	268.5	164.6	8.4	8.4	13.6
65°	25.8	25.8	31.6	42.0	69.7	92.9	88.4	47.8	5.8	7.7	12.3
67.5°	7.7	7.7	7.7	9.0	11.6	11.6	9.7	7.1	5.8	7.1	11.0
70°	4.5	4.5	4.5	4.5	4.5	4.5	5.2	4.5	5.2	6.5	9.7
72.5°	3.9	3.9	3.9	3.9	4.5	4.5	4.5	4.5	4.5	5.8	8.4
75°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.9	3.9	4.5	6.5
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	3.2	3.2	3.2	3.9	5.2
80°	1.9	1.9	1.9	1.9	1.9	2.6	2.6	2.6	2.6	3.2	4.5
82.5°	1.3	1.3	1.3	1.3	1.9	1.9	1.9	1.9	1.9	2.6	3.2
85°	0.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9	2.6
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.9
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°	70.3	70.3	70.3	70.3
2.5°	63.9	59.4	56.8	55.5
5°	58.1	52.3	50.3	49.7
7.5°	52.9	49.1	48.4	48.4
10°	49.7	47.1	47.8	47.8
12.5°	47.8	47.1	47.8	48.4
15°	45.8	46.5	47.8	47.8
17.5°	44.5	45.8	47.1	47.8
20°	42.6	45.2	47.1	47.1
22.5°	41.3	44.5	46.5	47.1
25°	40.0	43.2	45.8	47.1
27.5°	38.1	42.6	45.8	46.5
30°	36.1	41.3	45.2	47.1
32.5°	34.2	40.7	45.2	46.5
35°	32.9	40.0	45.2	46.5
37.5°	31.6	39.4	45.2	47.1
40°	31.0	38.7	44.5	47.1
42.5°	29.7	38.7	44.5	47.1
45°	29.0	38.1	44.5	47.1
47.5°	28.4	37.4	44.5	47.1
50°	27.1	36.8	43.9	47.1
52.5°	26.5	36.1	43.9	47.1
55°	25.2	35.5	43.2	46.5
57.5°	24.5	34.2	42.6	45.2
60°	23.2	32.9	41.3	43.9
62.5°	21.3	31.0	39.4	42.6
65°	19.4	28.4	37.4	40.0
67.5°	17.4	26.5	34.9	37.4
70°	15.5	23.9	31.6	34.2
72.5°	13.6	20.7	28.4	30.3
75°	11.6	17.4	23.9	26.5
77.5°	9.0	14.2	20.0	21.9
80°	7.1	11.6	15.5	16.8
82.5°	5.8	8.4	11.6	12.3
85°	3.9	5.2	7.1	8.4
87.5°	1.9	2.6	3.2	3.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)