

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: P1308370

Luminaire Tested: P3SQAS20R559030D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R559030D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

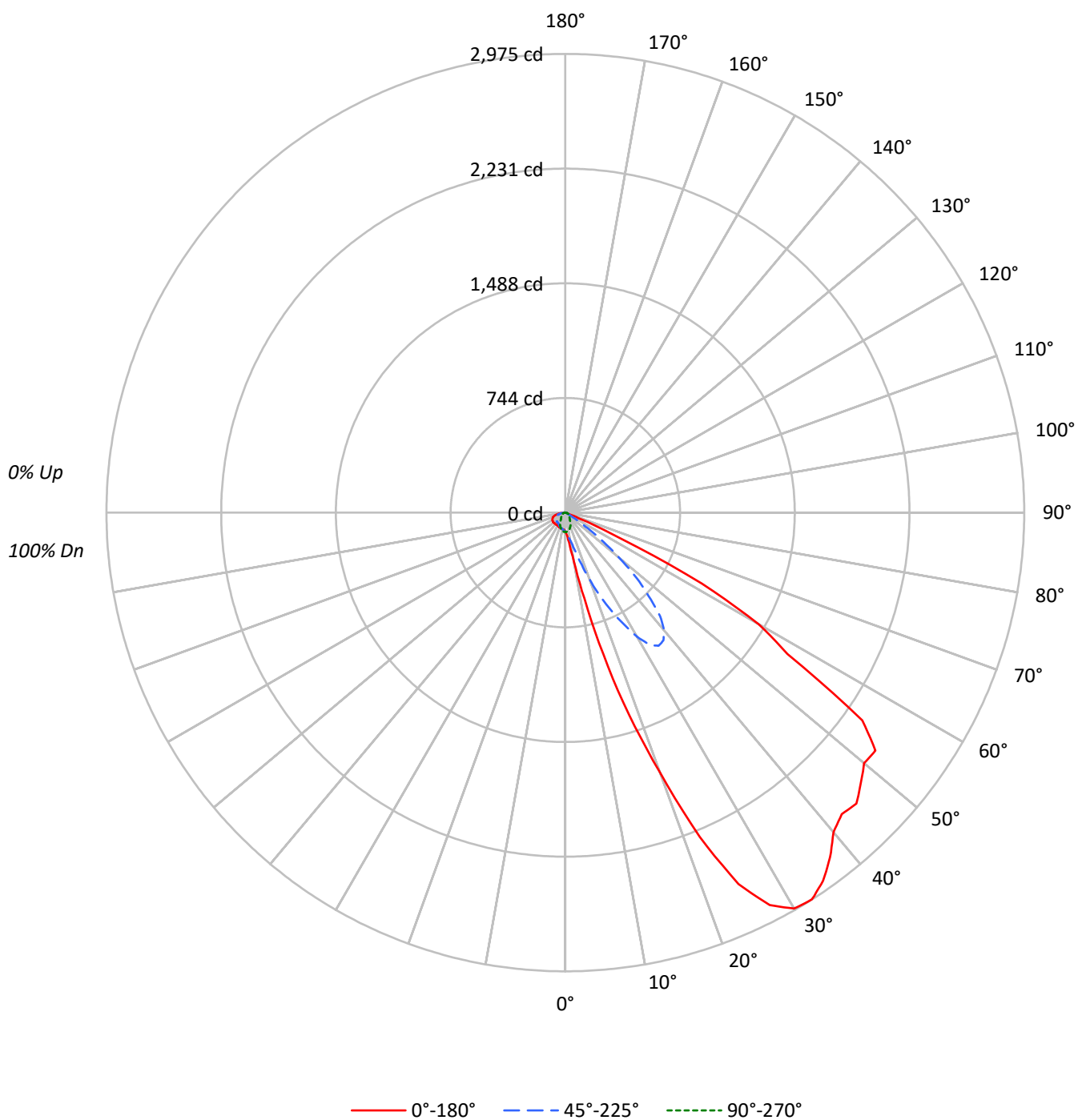
Lumens per Lamp: N/A
Luminaire Lumens: 1913.0 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	107	104	100	97	99	97	94		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81	78	75	73
3	91	81	73	67	89	80	72	67	77	71	65		74	69	64		72	67	63	61
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	51
5	76	63	54	47	74	62	53	47	60	52	47		58	51	46		56	50	46	43
6	69	56	47	40	68	55	46	40	53	46	40		51	45	39		50	44	39	37
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45	38	34	32
8	59	45	36	30	57	44	36	30	43	35	30		41	35	29		40	34	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		36	30	26	24
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	21252	21252	21252	21252	21252
5°	27177	24843	21333	19864	19293
10°	55279	31636	20688	18922	18922
15°	169668	48515	19292	18383	18989
20°	328063	84875	17356	17961	18896
25°	504920	132012	15088	17349	18946
30°	589577	184527	12429	17142	19489
35°	612654	221745	10302	17051	20247
40°	608005	223831	9510	17851	22032
45°	650036	185251	9060	19339	23869
50°	677490	122284	9056	20845	26713
55°	705433	53296	9128	22850	29426
60°	498378	12228	9300	25041	33170
65°	162557	4116	8965	26855	37206
70°	5086	4280	9366	28954	42550
75°	4525	4525	7852	30343	47245
80°	3372	5058	8430	30150	50284
85°	3359	6719	10078	30036	50191

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 716801 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.1	0.7
10°-20°	81.2	4.2
20°-30°	272.3	14.2
30°-40°	447.2	23.4
40°-50°	498.8	26.1
50°-60°	419.8	21.9
60°-70°	142.4	7.4
70°-80°	27.9	1.5
80°-90°	10.5	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°	366.6	19.2
0°-40°	813.7	42.5
0°-60°	1732.3	90.6
0°-90°	1913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1913.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	123	123	123	123	123	
5°	157	144	123	115	112	20
15°	952	272	108	103	106	302
25°	2657	695	79	91	100	1194
35°	2914	1055	49	81	96	1809
45°	2669	761	37	79	98	2038
55°	2349	178	30	76	98	1913
65°	399	10	22	66	91	540
75°	7	7	12	46	71	7
85°	2	3	5	15	25	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	123.4	123.4	123.4	123.4	123.4	123.4	123.4	123.4	123.4	123.4	123.4
2.5°	135.2	135.2	135.2	135.2	135.2	135.2	133.5	128.5	125.1	120.0	118.3
5°	157.2	157.2	157.2	155.5	155.5	152.1	143.7	131.8	123.4	116.6	114.9
7.5°	202.8	201.1	197.8	196.1	191.0	189.3	158.9	135.2	121.7	113.2	111.6
10°	316.1	312.7	307.6	289.0	272.1	260.3	180.9	136.9	118.3	109.9	108.2
12.5°	569.6	562.9	537.5	498.6	451.3	427.6	216.4	138.6	113.2	106.5	106.5
15°	951.6	943.2	895.8	841.7	755.5	708.2	272.1	136.9	108.2	101.4	103.1
17.5°	1374.2	1350.5	1301.5	1230.5	1113.9	1058.1	355.0	133.5	101.4	98.0	101.4
20°	1790.0	1783.2	1702.1	1605.7	1462.1	1387.7	463.1	128.5	94.7	93.0	98.0
22.5°	2276.8	2248.0	2161.8	2058.7	1861.0	1762.9	579.8	121.7	87.9	87.9	94.7
25°	2657.1	2623.3	2555.7	2435.7	2248.0	2143.2	694.7	113.2	79.4	82.8	91.3
27.5°	2870.0	2831.2	2780.5	2677.4	2532.0	2439.0	809.6	103.1	71.0	77.8	87.9
30°	2964.7	2954.6	2917.4	2841.3	2707.8	2625.0	927.9	91.3	62.5	72.7	86.2
32.5°	2974.8	2979.9	2964.7	2915.7	2814.3	2743.3	1015.8	81.1	55.8	69.3	82.8
35°	2914.0	2932.6	2942.7	2922.4	2856.5	2799.1	1054.7	69.3	49.0	65.9	81.1
37.5°	2819.3	2853.1	2886.9	2892.0	2851.5	2814.3	1044.6	59.2	45.6	64.2	81.1
40°	2704.4	2734.8	2804.1	2848.1	2834.5	2807.5	995.6	49.0	42.3	60.8	79.4
42.5°	2652.0	2658.8	2733.1	2807.5	2804.1	2782.2	909.4	38.9	38.9	60.8	79.4
45°	2668.9	2638.5	2687.5	2773.7	2768.6	2739.9	760.6	30.4	37.2	59.2	79.4
47.5°	2597.9	2555.7	2638.5	2739.9	2721.3	2679.0	628.8	22.0	35.5	57.5	77.8
50°	2528.6	2521.9	2586.1	2636.8	2611.4	2587.8	456.4	16.9	33.8	55.8	77.8
52.5°	2533.7	2521.9	2528.6	2526.9	2476.2	2450.9	312.7	13.5	32.1	54.1	77.8
55°	2349.4	2312.3	2276.8	2286.9	2290.3	2273.4	177.5	11.8	30.4	54.1	76.1
57.5°	1707.2	1697.0	1735.9	1845.8	1932.0	1942.1	86.2	11.8	28.7	52.4	74.4
60°	1446.9	1440.1	1441.8	1473.9	1519.5	1490.8	35.5	11.8	27.0	50.7	72.7
62.5°	997.2	1063.2	1090.2	1164.6	1134.2	1093.6	13.5	13.5	25.4	47.3	71.0
65°	398.9	397.2	434.4	469.9	459.7	429.3	10.1	11.8	22.0	43.9	65.9
67.5°	93.0	84.5	72.7	62.5	52.4	42.3	10.1	11.8	20.3	40.6	62.5
70°	10.1	10.1	10.1	10.1	10.1	8.5	8.5	11.8	18.6	37.2	57.5
72.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	10.1	15.2	32.1	52.4
75°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	8.5	11.8	27.0	45.6
77.5°	5.1	5.1	5.1	6.8	5.1	6.8	6.8	8.5	10.1	22.0	38.9
80°	3.4	3.4	5.1	5.1	5.1	5.1	5.1	6.8	8.5	18.6	30.4
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	5.1	5.1	6.8	13.5	22.0
85°	1.7	1.7	1.7	1.7	1.7	3.4	3.4	5.1	5.1	10.1	15.2
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	5.1	5.1	6.8
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):

	157.5°	180°
0°	123.4	123.4
2.5°	116.6	116.6
5°	113.2	111.6
7.5°	109.9	109.9
10°	108.2	108.2
12.5°	106.5	108.2
15°	106.5	106.5
17.5°	103.1	104.8
20°	101.4	103.1
22.5°	99.7	101.4
25°	98.0	99.7
27.5°	96.3	98.0
30°	94.7	98.0
32.5°	93.0	96.3
35°	93.0	96.3
37.5°	93.0	98.0
40°	93.0	98.0
42.5°	93.0	98.0
45°	93.0	98.0
47.5°	93.0	98.0
50°	93.0	99.7
52.5°	93.0	99.7
55°	93.0	98.0
57.5°	91.3	98.0
60°	91.3	96.3
62.5°	89.6	94.7
65°	86.2	91.3
67.5°	82.8	89.6
70°	77.8	84.5
72.5°	72.7	77.8
75°	65.9	71.0
77.5°	57.5	60.8
80°	45.6	50.7
82.5°	35.5	38.9
85°	23.7	25.4
87.5°	10.1	11.8
90°	0.0	0.0

(END OF REPORT)