

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: P1311684

Luminaire Tested: P3SQAS20R559050D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311684
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: P3SQAS20R559050D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 5000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

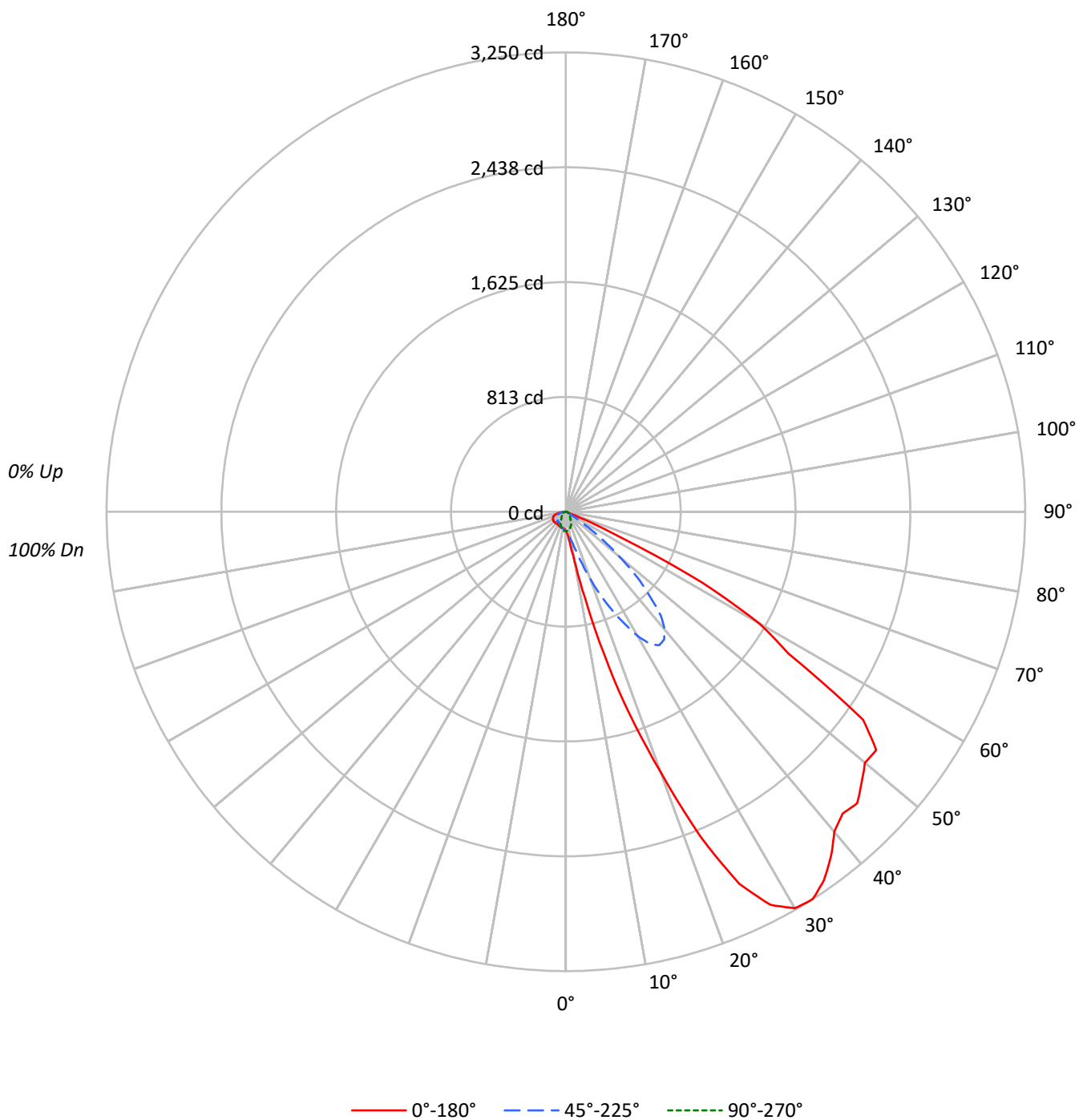
Lumens per Lamp: N/A
Luminaire Lumens: 2090.0 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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	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°	23216	23216	23216	23216	23216
5°	29684	27142	23304	21714	21074
10°	60386	34556	22612	20671	20671
15°	185376	53008	21075	20076	20736
20°	358414	92737	18951	19629	20637
25°	551628	144230	16494	18946	20713
30°	644126	201610	13583	18733	21299
35°	669336	242265	11269	18628	22139
40°	664255	244537	10387	19514	24078
45°	710171	202398	9889	21141	26085
50°	740186	133590	9887	22747	29204
55°	770710	58221	9969	24952	32158
60°	544465	13364	10161	27349	36270
65°	177594	4523	9780	29341	40629
70°	5589	4633	10222	31623	46477
75°	4924	4924	8584	33204	51636
80°	3670	5455	9124	32927	54945
85°	3557	7311	10868	32802	54736

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 783114 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.3	0.7
10°-20°	88.7	4.2
20°-30°	297.5	14.2
30°-40°	488.5	23.4
40°-50°	544.9	26.1
50°-60°	458.6	21.9
60°-70°	155.6	7.4
70°-80°	30.4	1.5
80°-90°	11.4	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°	400.5	19.2
0°-40°	889.0	42.5
0°-60°	1892.6	90.6
0°-90°	2090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2090.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	135	135	135	135	135	
5°	172	157	135	126	122	21
15°	1040	297	118	113	116	330
25°	2903	759	87	100	109	1305
35°	3184	1152	54	89	105	1977
45°	2916	831	41	87	107	2227
55°	2567	194	33	83	107	2090
65°	436	11	24	72	100	590
75°	7	7	13	50	78	8
85°	2	4	6	17	28	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°	134.8	134.8	134.8	134.8	134.8	134.8	134.8	134.8	134.8	134.8	134.8
2.5°	147.7	147.7	147.7	147.7	147.7	147.7	145.9	140.3	136.7	131.1	129.3
5°	171.7	171.7	171.7	169.9	169.9	166.2	157.0	144.0	134.8	127.4	125.6
7.5°	221.6	219.8	216.1	214.2	208.7	206.8	173.6	147.7	133.0	123.7	121.9
10°	345.3	341.6	336.1	315.8	297.3	284.4	197.6	149.6	129.3	120.0	118.2
12.5°	622.3	614.9	587.2	544.8	493.1	467.2	236.4	151.4	123.7	116.3	116.3
15°	1039.7	1030.4	978.7	919.6	825.4	773.7	297.3	149.6	118.2	110.8	112.6
17.5°	1501.3	1475.5	1421.9	1344.4	1216.9	1156.0	387.8	145.9	110.8	107.1	110.8
20°	1955.6	1948.2	1859.6	1754.3	1597.3	1516.1	506.0	140.3	103.4	101.6	107.1
22.5°	2487.4	2456.0	2361.9	2249.2	2033.2	1926.0	633.4	133.0	96.0	96.0	103.4
25°	2902.9	2866.0	2792.1	2661.0	2456.0	2341.5	759.0	123.7	86.8	90.5	99.7
27.5°	3135.6	3093.1	3037.7	2925.1	2766.3	2664.7	884.5	112.6	77.6	84.9	96.0
30°	3239.0	3227.9	3187.3	3104.2	2958.3	2867.8	1013.8	99.7	68.3	79.4	94.2
32.5°	3250.1	3255.6	3239.0	3185.5	3074.7	2997.1	1109.8	88.6	60.9	75.7	90.5
35°	3183.6	3203.9	3215.0	3192.8	3120.8	3058.0	1152.3	75.7	53.6	72.0	88.6
37.5°	3080.2	3117.1	3154.1	3159.6	3115.3	3074.7	1141.2	64.6	49.9	70.2	88.6
40°	2954.6	2987.9	3063.6	3111.6	3096.8	3067.3	1087.7	53.6	46.2	66.5	86.8
42.5°	2897.4	2904.8	2986.0	3067.3	3063.6	3039.6	993.5	42.5	42.5	66.5	86.8
45°	2915.8	2882.6	2936.2	3030.3	3024.8	2993.4	831.0	33.2	40.6	64.6	86.8
47.5°	2838.3	2792.1	2882.6	2993.4	2973.1	2926.9	687.0	24.0	38.8	62.8	84.9
50°	2762.6	2755.2	2825.4	2880.8	2853.1	2827.2	498.6	18.5	36.9	60.9	84.9
52.5°	2768.1	2755.2	2762.6	2760.7	2705.3	2677.6	341.6	14.8	35.1	59.1	84.9
55°	2566.8	2526.2	2487.4	2498.5	2502.2	2483.7	193.9	12.9	33.2	59.1	83.1
57.5°	1865.1	1854.0	1896.5	2016.5	2110.7	2121.8	94.2	12.9	31.4	57.2	81.3
60°	1580.7	1573.3	1575.2	1610.3	1660.1	1628.7	38.8	12.9	29.5	55.4	79.4
62.5°	1089.5	1161.5	1191.1	1272.3	1239.1	1194.8	14.8	14.8	27.7	51.7	77.6
65°	435.8	434.0	474.6	513.4	502.3	469.0	11.1	12.9	24.0	48.0	72.0
67.5°	101.6	92.3	79.4	68.3	57.2	46.2	11.1	12.9	22.2	44.3	68.3
70°	11.1	11.1	11.1	11.1	11.1	9.2	9.2	12.9	20.3	40.6	62.8
72.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	11.1	16.6	35.1	57.2
75°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	9.2	12.9	29.5	49.9
77.5°	5.5	5.5	5.5	7.4	5.5	7.4	7.4	9.2	11.1	24.0	42.5
80°	3.7	3.7	5.5	5.5	5.5	5.5	5.5	7.4	9.2	20.3	33.2
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	5.5	5.5	7.4	14.8	24.0
85°	1.8	1.8	1.8	1.8	1.8	3.7	3.7	5.5	5.5	11.1	16.6
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7	5.5	5.5	7.4
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°	134.8	134.8
2.5°	127.4	127.4
5°	123.7	121.9
7.5°	120.0	120.0
10°	118.2	118.2
12.5°	116.3	118.2
15°	116.3	116.3
17.5°	112.6	114.5
20°	110.8	112.6
22.5°	109.0	110.8
25°	107.1	109.0
27.5°	105.3	107.1
30°	103.4	107.1
32.5°	101.6	105.3
35°	101.6	105.3
37.5°	101.6	107.1
40°	101.6	107.1
42.5°	101.6	107.1
45°	101.6	107.1
47.5°	101.6	107.1
50°	101.6	109.0
52.5°	101.6	109.0
55°	101.6	107.1
57.5°	99.7	107.1
60°	99.7	105.3
62.5°	97.9	103.4
65°	94.2	99.7
67.5°	90.5	97.9
70°	84.9	92.3
72.5°	79.4	84.9
75°	72.0	77.6
77.5°	62.8	66.5
80°	49.9	55.4
82.5°	38.8	42.5
85°	25.9	27.7
87.5°	11.1	12.9
90°	0.0	0.0

(END OF REPORT)