

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: P1314744

Luminaire Tested: P3SQAS20R559735D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314744
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: P3SQAS20R559735D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

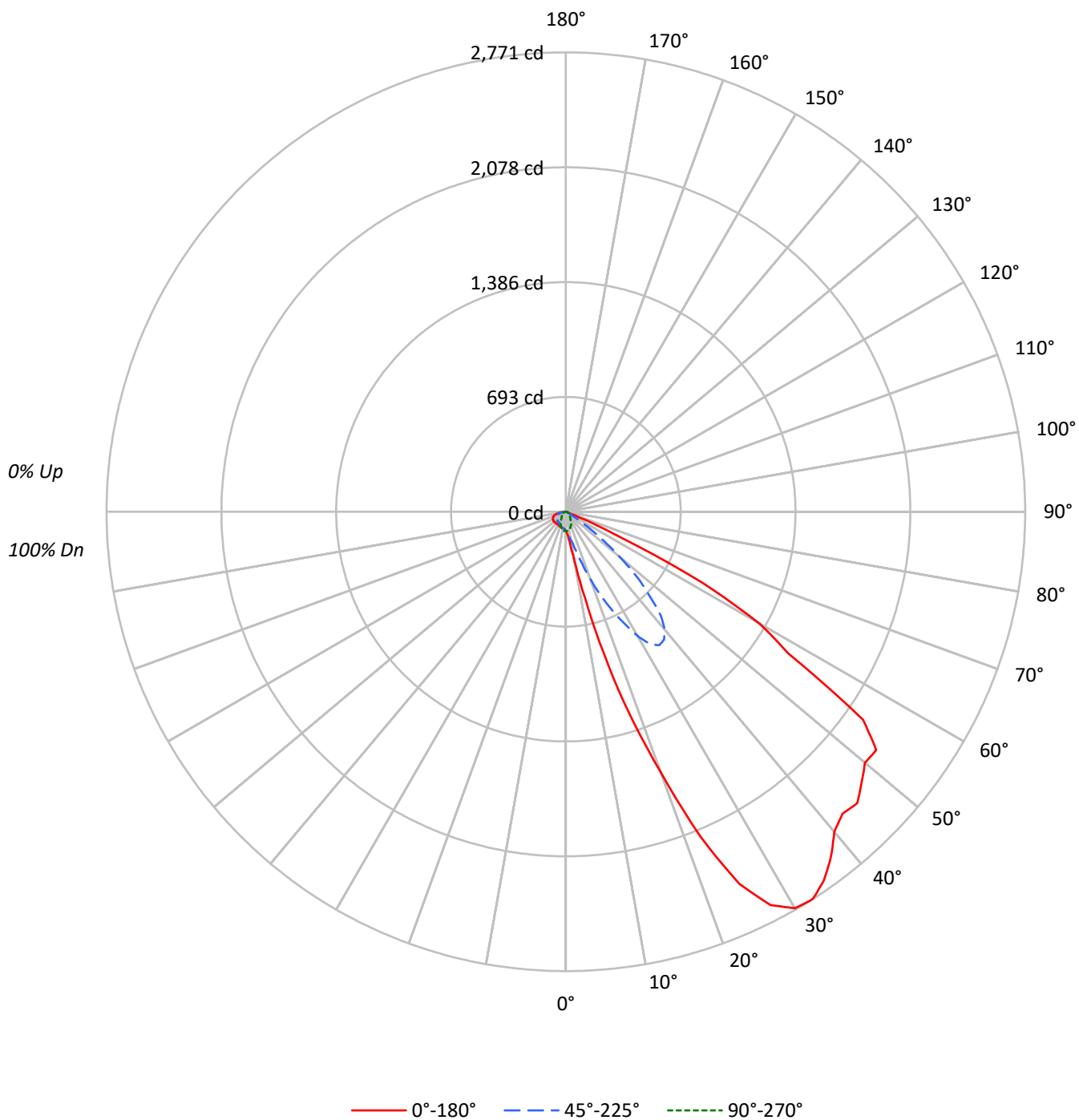
Lumens per Lamp: N/A
Luminaire Lumens: 1782.0 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	19788	19788	19788	19788	19788
5°	25310	23131	19864	18516	17962
10°	51485	29467	19272	17628	17628
15°	158043	45199	17972	17117	17687
20°	305594	79065	16165	16733	17594
25°	470335	122966	14062	16152	17653
30°	549207	171899	11594	15969	18156
35°	570689	206566	9608	15895	18859
40°	566368	208499	8858	16637	20526
45°	605514	172562	8427	18023	22237
50°	631111	113897	8440	19398	24891
55°	657151	49633	8497	21289	27414
60°	464243	11401	8680	23319	30897
65°	151432	3831	8354	25021	34639
70°	4733	3978	8711	26940	39629
75°	4192	4192	7320	28280	43984
80°	3075	4661	7835	28068	46813
85°	3162	6126	9287	28060	46634

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 667716 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.2	0.7
10°-20°	75.7	4.2
20°-30°	253.6	14.2
30°-40°	416.5	23.4
40°-50°	464.6	26.1
50°-60°	391.0	21.9
60°-70°	132.7	7.4
70°-80°	25.9	1.5
80°-90°	9.7	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°	341.5	19.2
0°-40°	758.0	42.5
0°-60°	1613.7	90.6
0°-90°	1782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1782.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	115	115	115	115	115	
5°	146	134	115	107	104	18
15°	886	254	101	96	99	281
25°	2475	647	74	85	93	1112
35°	2714	982	46	76	90	1685
45°	2486	708	35	74	91	1899
55°	2189	165	28	71	91	1782
65°	372	9	20	61	85	503
75°	6	6	11	42	66	7
85°	2	3	5	14	24	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°	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9
2.5°	126.0	126.0	126.0	126.0	126.0	126.0	124.4	119.7	116.5	111.8	110.2
5°	146.4	146.4	146.4	144.9	144.9	141.7	133.8	122.8	114.9	108.6	107.1
7.5°	188.9	187.4	184.2	182.6	177.9	176.3	148.0	126.0	113.4	105.5	103.9
10°	294.4	291.3	286.6	269.2	253.5	242.5	168.5	127.5	110.2	102.3	100.8
12.5°	530.6	524.3	500.7	464.5	420.4	398.3	201.5	129.1	105.5	99.2	99.2
15°	886.4	878.6	834.5	784.1	703.8	659.7	253.5	127.5	100.8	94.5	96.0
17.5°	1280.1	1258.0	1212.4	1146.2	1037.6	985.6	330.6	124.4	94.5	91.3	94.5
20°	1667.4	1661.1	1585.5	1495.8	1361.9	1292.7	431.4	119.7	88.2	86.6	91.3
22.5°	2120.9	2094.1	2013.8	1917.7	1733.5	1642.2	540.1	113.4	81.9	81.9	88.2
25°	2475.1	2443.6	2380.6	2268.9	2094.1	1996.5	647.1	105.5	74.0	77.2	85.0
27.5°	2673.5	2637.3	2590.1	2494.0	2358.6	2272.0	754.2	96.0	66.1	72.4	81.9
30°	2761.7	2752.2	2717.6	2646.7	2522.4	2445.2	864.4	85.0	58.3	67.7	80.3
32.5°	2771.1	2775.8	2761.7	2716.0	2621.5	2555.4	946.3	75.6	52.0	64.6	77.2
35°	2714.4	2731.8	2741.2	2722.3	2660.9	2607.4	982.5	64.6	45.7	61.4	75.6
37.5°	2626.3	2657.8	2689.3	2694.0	2656.2	2621.5	973.0	55.1	42.5	59.8	75.6
40°	2519.2	2547.5	2612.1	2653.0	2640.4	2615.3	927.4	45.7	39.4	56.7	74.0
42.5°	2470.4	2476.7	2546.0	2615.3	2612.1	2591.6	847.1	36.2	36.2	56.7	74.0
45°	2486.1	2457.8	2503.5	2583.8	2579.0	2552.3	708.5	28.3	34.6	55.1	74.0
47.5°	2420.0	2380.6	2457.8	2552.3	2535.0	2495.6	585.7	20.5	33.1	53.5	72.4
50°	2355.5	2349.2	2409.0	2456.2	2432.6	2410.6	425.1	15.7	31.5	52.0	72.4
52.5°	2360.2	2349.2	2355.5	2353.9	2306.6	2283.0	291.3	12.6	29.9	50.4	72.4
55°	2188.6	2153.9	2120.9	2130.3	2133.5	2117.7	165.3	11.0	28.3	50.4	70.9
57.5°	1590.2	1580.8	1617.0	1719.4	1799.7	1809.1	80.3	11.0	26.8	48.8	69.3
60°	1347.8	1341.5	1343.1	1373.0	1415.5	1388.7	33.1	11.0	25.2	47.2	67.7
62.5°	929.0	990.4	1015.6	1084.8	1056.5	1018.7	12.6	12.6	23.6	44.1	66.1
65°	371.6	370.0	404.6	437.7	428.3	399.9	9.4	11.0	20.5	40.9	61.4
67.5°	86.6	78.7	67.7	58.3	48.8	39.4	9.4	11.0	18.9	37.8	58.3
70°	9.4	9.4	9.4	9.4	9.4	7.9	7.9	11.0	17.3	34.6	53.5
72.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	9.4	14.2	29.9	48.8
75°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	7.9	11.0	25.2	42.5
77.5°	4.7	4.7	4.7	6.3	4.7	6.3	6.3	7.9	9.4	20.5	36.2
80°	3.1	3.1	4.7	4.7	4.7	4.7	4.7	6.3	7.9	17.3	28.3
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	4.7	4.7	6.3	12.6	20.5
85°	1.6	1.6	1.6	1.6	1.6	3.1	3.1	4.7	4.7	9.4	14.2
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	3.1	3.1	4.7	4.7	6.3
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°	114.9	114.9
2.5°	108.6	108.6
5°	105.5	103.9
7.5°	102.3	102.3
10°	100.8	100.8
12.5°	99.2	100.8
15°	99.2	99.2
17.5°	96.0	97.6
20°	94.5	96.0
22.5°	92.9	94.5
25°	91.3	92.9
27.5°	89.7	91.3
30°	88.2	91.3
32.5°	86.6	89.7
35°	86.6	89.7
37.5°	86.6	91.3
40°	86.6	91.3
42.5°	86.6	91.3
45°	86.6	91.3
47.5°	86.6	91.3
50°	86.6	92.9
52.5°	86.6	92.9
55°	86.6	91.3
57.5°	85.0	91.3
60°	85.0	89.7
62.5°	83.4	88.2
65°	80.3	85.0
67.5°	77.2	83.4
70°	72.4	78.7
72.5°	67.7	72.4
75°	61.4	66.1
77.5°	53.5	56.7
80°	42.5	47.2
82.5°	33.1	36.2
85°	22.0	23.6
87.5°	9.4	11.0
90°	0.0	0.0

(END OF REPORT)