

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: P1315716

Luminaire Tested: P3SQAS20R559740D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315716
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: P3SQAS20R559740D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

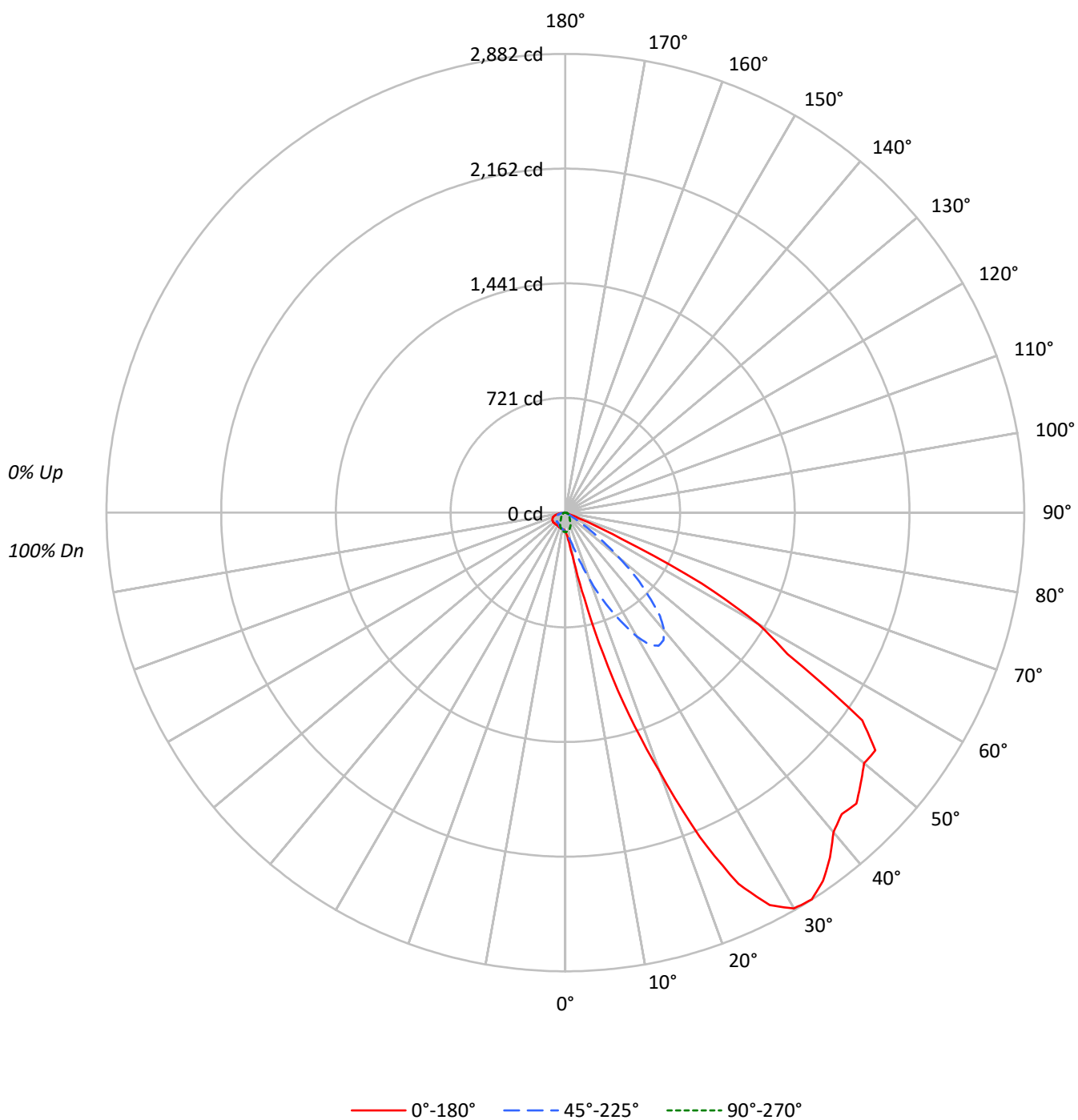
Lumens per Lamp: N/A
Luminaire Lumens: 1853.0 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	20581	20581	20581	20581	20581
5°	26330	24065	20659	19242	18688
10°	53548	30639	20041	18327	18327
15°	164355	46999	18686	17812	18383
20°	317763	82217	16806	17411	18309
25°	489072	127869	14632	16798	18357
30°	571082	178740	12051	16605	18892
35°	593438	214786	9987	16525	19616
40°	588940	216795	9195	17311	21358
45°	629650	179455	8768	18754	23138
50°	656243	118452	8761	20175	25882
55°	683334	51615	8858	22129	28525
60°	482740	11849	9024	24249	32137
65°	157463	3994	8680	26040	36024
70°	4935	4129	9064	28047	41240
75°	4325	4325	7652	29411	45781
80°	3273	4860	8133	29258	48697
85°	3162	6521	9683	29048	48610

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 694309 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.7	0.7
10°-20°	78.7	4.2
20°-30°	263.7	14.2
30°-40°	433.1	23.4
40°-50°	483.1	26.1
50°-60°	406.6	21.9
60°-70°	138.0	7.4
70°-80°	27.0	1.5
80°-90°	10.1	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°	355.1	19.2
0°-40°	788.2	42.5
0°-60°	1678.0	90.6
0°-90°	1853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1853.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	120	120	120	120	120	
5°	152	139	120	111	108	19
15°	922	264	105	100	103	292
25°	2574	673	77	88	97	1157
35°	2823	1022	48	79	93	1753
45°	2585	737	36	77	95	1974
55°	2276	172	30	74	95	1853
65°	386	10	21	64	88	523
75°	6	6	12	44	69	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°	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5
2.5°	131.0	131.0	131.0	131.0	131.0	131.0	129.3	124.4	121.2	116.2	114.6
5°	152.3	152.3	152.3	150.6	150.6	147.4	139.2	127.7	119.5	113.0	111.3
7.5°	196.5	194.8	191.6	189.9	185.0	183.4	153.9	131.0	117.9	109.7	108.1
10°	306.2	302.9	298.0	280.0	263.6	252.1	175.2	132.6	114.6	106.4	104.8
12.5°	551.7	545.2	520.6	483.0	437.1	414.2	209.6	134.3	109.7	103.1	103.1
15°	921.8	913.6	867.7	815.3	731.8	686.0	263.6	132.6	104.8	98.2	99.9
17.5°	1331.1	1308.2	1260.7	1191.9	1078.9	1024.9	343.8	129.3	98.2	95.0	98.2
20°	1733.8	1727.3	1648.7	1555.4	1416.2	1344.2	448.6	124.4	91.7	90.0	95.0
22.5°	2205.4	2177.5	2094.0	1994.2	1802.6	1707.6	561.6	117.9	85.1	85.1	91.7
25°	2573.7	2541.0	2475.5	2359.3	2177.5	2076.0	672.9	109.7	77.0	80.2	88.4
27.5°	2780.0	2742.4	2693.3	2593.4	2452.6	2362.5	784.2	99.9	68.8	75.3	85.1
30°	2871.7	2861.9	2825.9	2752.2	2622.9	2542.6	898.8	88.4	60.6	70.4	83.5
32.5°	2881.5	2886.4	2871.7	2824.2	2726.0	2657.2	984.0	78.6	54.0	67.1	80.2
35°	2822.6	2840.6	2850.4	2830.8	2766.9	2711.3	1021.6	67.1	47.5	63.9	78.6
37.5°	2730.9	2763.7	2796.4	2801.3	2762.0	2726.0	1011.8	57.3	44.2	62.2	78.6
40°	2619.6	2649.0	2716.2	2758.7	2745.6	2719.4	964.3	47.5	40.9	58.9	77.0
42.5°	2568.8	2575.4	2647.4	2719.4	2716.2	2694.9	880.8	37.7	37.7	58.9	77.0
45°	2585.2	2555.7	2603.2	2686.7	2681.8	2654.0	736.8	29.5	36.0	57.3	77.0
47.5°	2516.4	2475.5	2555.7	2654.0	2636.0	2595.0	609.1	21.3	34.4	55.7	75.3
50°	2449.3	2442.8	2505.0	2554.1	2529.5	2506.6	442.1	16.4	32.7	54.0	75.3
52.5°	2454.2	2442.8	2449.3	2447.7	2398.6	2374.0	302.9	13.1	31.1	52.4	75.3
55°	2275.8	2239.7	2205.4	2215.2	2218.5	2202.1	171.9	11.5	29.5	52.4	73.7
57.5°	1653.6	1643.8	1681.4	1787.9	1871.4	1881.2	83.5	11.5	27.8	50.8	72.0
60°	1401.5	1394.9	1396.6	1427.7	1471.9	1444.0	34.4	11.5	26.2	49.1	70.4
62.5°	966.0	1029.8	1056.0	1128.1	1098.6	1059.3	13.1	13.1	24.6	45.8	68.8
65°	386.4	384.8	420.8	455.2	445.3	415.9	9.8	11.5	21.3	42.6	63.9
67.5°	90.0	81.9	70.4	60.6	50.8	40.9	9.8	11.5	19.6	39.3	60.6
70°	9.8	9.8	9.8	9.8	9.8	8.2	8.2	11.5	18.0	36.0	55.7
72.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	9.8	14.7	31.1	50.8
75°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	8.2	11.5	26.2	44.2
77.5°	4.9	4.9	4.9	6.5	4.9	6.5	6.5	8.2	9.8	21.3	37.7
80°	3.3	3.3	4.9	4.9	4.9	4.9	4.9	6.5	8.2	18.0	29.5
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	4.9	4.9	6.5	13.1	21.3
85°	1.6	1.6	1.6	1.6	1.6	3.3	3.3	4.9	4.9	9.8	14.7
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3	4.9	4.9	6.5
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°	119.5	119.5
2.5°	113.0	113.0
5°	109.7	108.1
7.5°	106.4	106.4
10°	104.8	104.8
12.5°	103.1	104.8
15°	103.1	103.1
17.5°	99.9	101.5
20°	98.2	99.9
22.5°	96.6	98.2
25°	95.0	96.6
27.5°	93.3	95.0
30°	91.7	95.0
32.5°	90.0	93.3
35°	90.0	93.3
37.5°	90.0	95.0
40°	90.0	95.0
42.5°	90.0	95.0
45°	90.0	95.0
47.5°	90.0	95.0
50°	90.0	96.6
52.5°	90.0	96.6
55°	90.0	95.0
57.5°	88.4	95.0
60°	88.4	93.3
62.5°	86.8	91.7
65°	83.5	88.4
67.5°	80.2	86.8
70°	75.3	81.9
72.5°	70.4	75.3
75°	63.9	68.8
77.5°	55.7	58.9
80°	44.2	49.1
82.5°	34.4	37.7
85°	22.9	24.6
87.5°	9.8	11.5
90°	0.0	0.0

(END OF REPORT)