

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: P1318345

Luminaire Tested: P3SQAS20R559835D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318345
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: P3SQAS20R559835D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

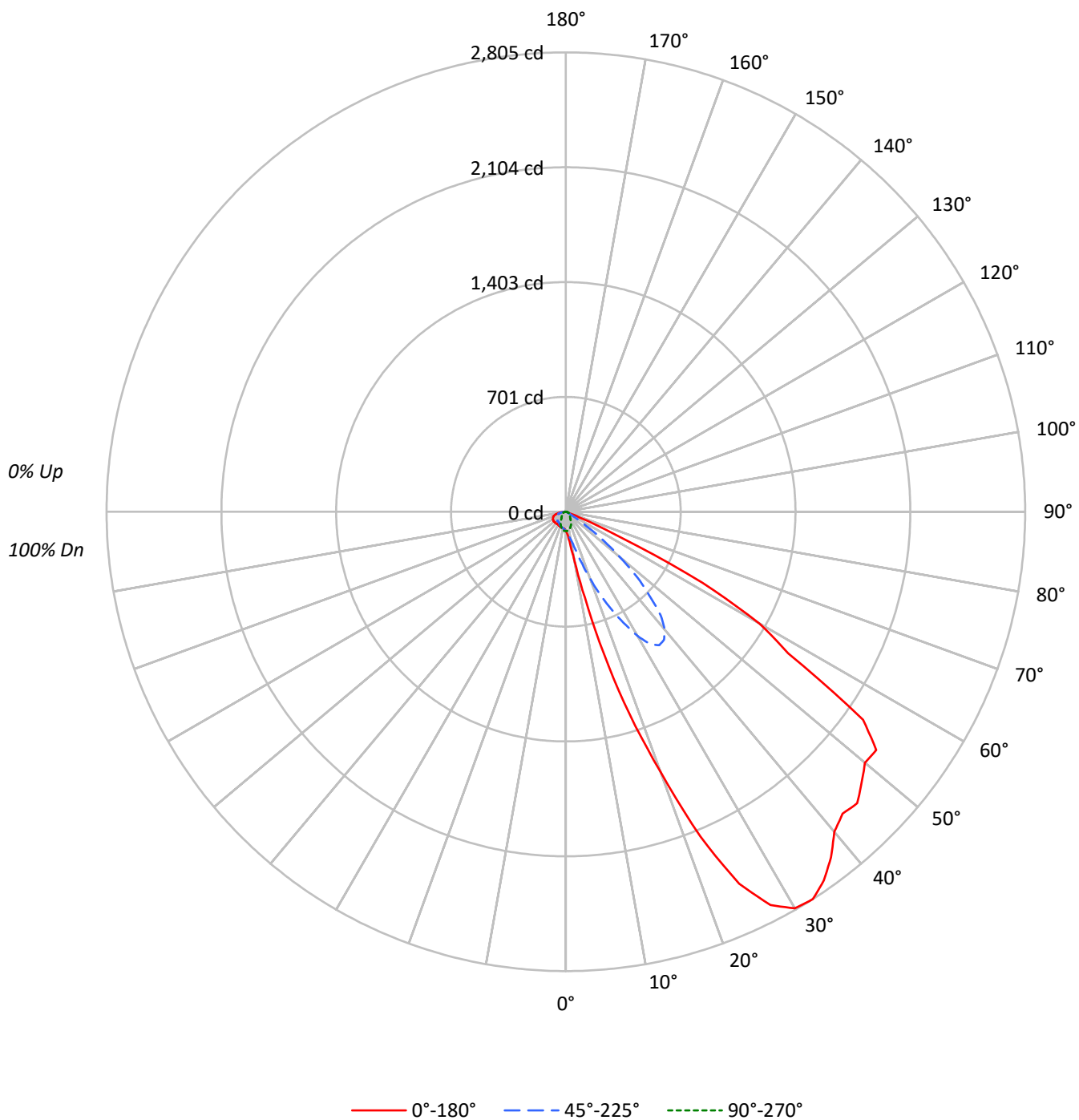
Lumens per Lamp: N/A
Luminaire Lumens: 1804.0 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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

TEST NUMBER: P1318345

CATALOG NUMBER: P3SQAS20R559835D010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1318345

CATALOG NUMBER: P3SQAS20R559835D010 E3SQCA451MMS

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°	20047	20047	20047	20047	20047
5°	25621	23425	20123	18740	18187
10°	52132	29834	19517	17838	17838
15°	160005	45751	18186	17331	17901
20°	309369	80036	16367	16935	17814
25°	476150	124486	14233	16361	17863
30°	555988	174027	11733	16168	18375
35°	577753	209110	9713	16084	19111
40°	573360	211062	8948	16839	20773
45°	612991	174705	8549	18243	22505
50°	638881	115317	8547	19639	25186
55°	665258	50264	8617	21529	27744
60°	469961	11539	8783	23595	31310
65°	153307	3912	8436	25347	35087
70°	4834	4028	8812	27292	40133
75°	4259	4259	7453	28613	44516
80°	3174	4761	7934	28464	47408
85°	3162	6323	9485	28257	47227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 675949 cd/sqm

TEST NUMBER: P1318345

CATALOG NUMBER: P3SQAS20R559835D010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.4	0.7
10°-20°	76.6	4.2
20°-30°	256.8	14.2
30°-40°	421.7	23.4
40°-50°	470.3	26.1
50°-60°	395.9	21.9
60°-70°	134.3	7.4
70°-80°	26.3	1.5
80°-90°	9.9	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°	345.7	19.2
0°-40°	767.4	42.5
0°-60°	1633.6	90.6
0°-90°	1804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1804.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	116	116	116	116	116	
5°	148	136	116	108	105	18
15°	897	257	102	97	100	285
25°	2506	655	75	86	94	1126
35°	2748	995	46	76	91	1706
45°	2517	717	35	75	92	1922
55°	2216	167	29	72	92	1804
65°	376	10	21	62	86	509
75°	6	6	11	43	67	7
85°	2	3	5	14	24	2
90°	0	0	0	0	0	



TEST NUMBER: P1318345

CATALOG NUMBER: P3SQAS20R559835D010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	116.4	116.4	116.4	116.4	116.4	116.4	116.4	116.4	116.4	116.4	116.4
2.5°	127.5	127.5	127.5	127.5	127.5	127.5	125.9	121.1	118.0	113.2	111.6
5°	148.2	148.2	148.2	146.6	146.6	143.5	135.5	124.3	116.4	110.0	108.4
7.5°	191.3	189.7	186.5	184.9	180.1	178.5	149.8	127.5	114.8	106.8	105.2
10°	298.1	294.9	290.1	272.6	256.6	245.5	170.6	129.1	111.6	103.6	102.0
12.5°	537.2	530.8	506.9	470.2	425.6	403.3	204.0	130.7	106.8	100.4	100.4
15°	897.4	889.4	844.8	793.8	712.5	667.9	256.6	129.1	102.0	95.6	97.2
17.5°	1295.9	1273.6	1227.3	1160.4	1050.4	997.8	334.7	125.9	95.6	92.4	95.6
20°	1688.0	1681.6	1605.1	1514.2	1378.8	1308.6	436.7	121.1	89.3	87.7	92.4
22.5°	2147.0	2119.9	2038.7	1941.4	1754.9	1662.5	546.7	114.8	82.9	82.9	89.3
25°	2505.7	2473.8	2410.0	2296.9	2119.9	2021.1	655.1	106.8	74.9	78.1	86.1
27.5°	2706.5	2669.9	2622.0	2524.8	2387.7	2300.1	763.5	97.2	66.9	73.3	82.9
30°	2795.8	2786.2	2751.1	2679.4	2553.5	2475.4	875.1	86.1	59.0	68.5	81.3
32.5°	2805.3	2810.1	2795.8	2749.5	2653.9	2587.0	958.0	76.5	52.6	65.4	78.1
35°	2748.0	2765.5	2775.1	2755.9	2693.8	2639.6	994.6	65.4	46.2	62.2	76.5
37.5°	2658.7	2690.6	2722.5	2727.2	2689.0	2653.9	985.1	55.8	43.0	60.6	76.5
40°	2550.3	2579.0	2644.3	2685.8	2673.0	2647.5	938.8	46.2	39.8	57.4	74.9
42.5°	2500.9	2507.3	2577.4	2647.5	2644.3	2623.6	857.5	36.7	36.7	57.4	74.9
45°	2516.8	2488.1	2534.4	2615.7	2610.9	2583.8	717.3	28.7	35.1	55.8	74.9
47.5°	2449.9	2410.0	2488.1	2583.8	2566.2	2526.4	592.9	20.7	33.5	54.2	73.3
50°	2384.5	2378.2	2438.7	2486.5	2462.6	2440.3	430.4	15.9	31.9	52.6	73.3
52.5°	2389.3	2378.2	2384.5	2382.9	2335.1	2311.2	294.9	12.8	30.3	51.0	73.3
55°	2215.6	2180.5	2147.0	2156.6	2159.8	2143.9	167.4	11.2	28.7	51.0	71.7
57.5°	1609.9	1600.3	1637.0	1740.6	1821.9	1831.4	81.3	11.2	27.1	49.4	70.1
60°	1364.4	1358.0	1359.6	1389.9	1433.0	1405.9	33.5	11.2	25.5	47.8	68.5
62.5°	940.4	1002.6	1028.1	1098.2	1069.5	1031.3	12.8	12.8	23.9	44.6	66.9
65°	376.2	374.6	409.6	443.1	433.6	404.9	9.6	11.2	20.7	41.4	62.2
67.5°	87.7	79.7	68.5	59.0	49.4	39.8	9.6	11.2	19.1	38.3	59.0
70°	9.6	9.6	9.6	9.6	9.6	8.0	8.0	11.2	17.5	35.1	54.2
72.5°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	9.6	14.3	30.3	49.4
75°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	8.0	11.2	25.5	43.0
77.5°	4.8	4.8	4.8	6.4	4.8	6.4	6.4	8.0	9.6	20.7	36.7
80°	3.2	3.2	4.8	4.8	4.8	4.8	4.8	6.4	8.0	17.5	28.7
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	4.8	4.8	6.4	12.8	20.7
85°	1.6	1.6	1.6	1.6	1.6	3.2	3.2	4.8	4.8	9.6	14.3
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	4.8	4.8	6.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1318345

CATALOG NUMBER: P3SQAS20R559835D010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	116.4	116.4
2.5°	110.0	110.0
5°	106.8	105.2
7.5°	103.6	103.6
10°	102.0	102.0
12.5°	100.4	102.0
15°	100.4	100.4
17.5°	97.2	98.8
20°	95.6	97.2
22.5°	94.0	95.6
25°	92.4	94.0
27.5°	90.9	92.4
30°	89.3	92.4
32.5°	87.7	90.9
35°	87.7	90.9
37.5°	87.7	92.4
40°	87.7	92.4
42.5°	87.7	92.4
45°	87.7	92.4
47.5°	87.7	92.4
50°	87.7	94.0
52.5°	87.7	94.0
55°	87.7	92.4
57.5°	86.1	92.4
60°	86.1	90.9
62.5°	84.5	89.3
65°	81.3	86.1
67.5°	78.1	84.5
70°	73.3	79.7
72.5°	68.5	73.3
75°	62.2	66.9
77.5°	54.2	57.4
80°	43.0	47.8
82.5°	33.5	36.7
85°	22.3	23.9
87.5°	9.6	11.2
90°	0.0	0.0

(END OF REPORT)