

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: P1317777

Luminaire Tested: P3SQAS05R659835DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R659835DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

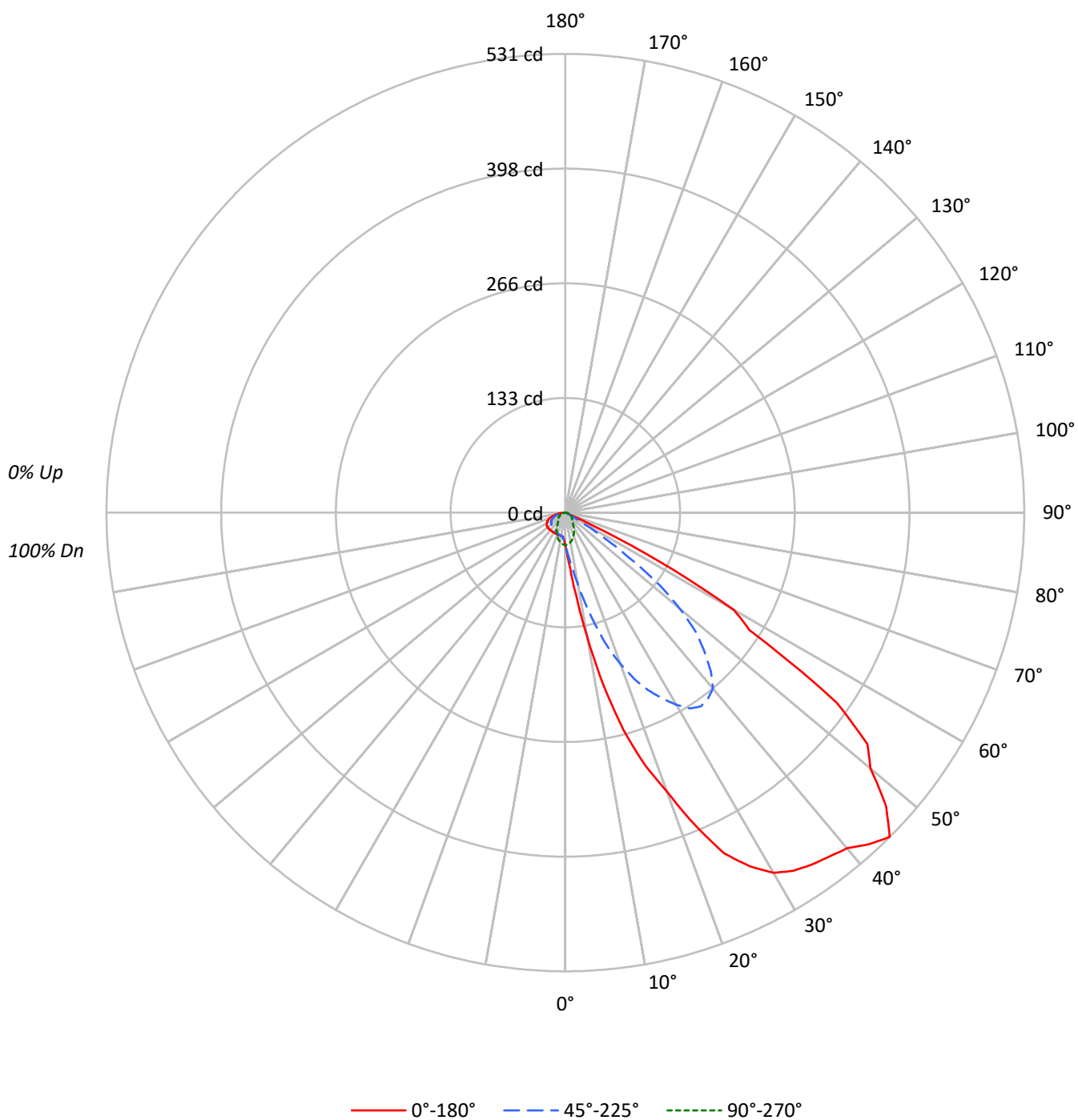
Lumens per Lamp: N/A
Luminaire Lumens: 385.0 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P1317777

CATALOG NUMBER: P3SQAS05R659835DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1317777

CATALOG NUMBER: P3SQAS05R659835DE010 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	108	104	100	97	100	97	94	96	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6441	6441	6441	6441	6441
5°	11272	9215	6345	5135	4944
10°	25515	14847	6068	4722	4792
15°	46393	23892	5652	4743	4885
20°	62900	34108	5095	4747	4948
25°	82681	43060	4466	4618	5055
30°	95734	51049	3838	4614	5290
35°	104534	57544	3238	4709	5593
40°	114029	59712	2855	4946	5980
45°	129281	55385	2728	5261	6479
50°	123489	46245	2679	5573	7127
55°	115090	25973	2792	6035	7867
60°	77535	5580	2790	6372	8508
65°	11940	1426	2690	6602	9291
70°	1360	1360	2518	6798	9920
75°	1264	1264	2329	6654	10048
80°	1190	1488	2281	6149	9918
85°	790	1581	2371	6126	9090

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 129281 cd/sqm

TEST NUMBER: P1317777

CATALOG NUMBER: P3SQAS05R659835DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	1.2
10°-20°	24.5	6.4
20°-30°	57.5	14.9
30°-40°	86.9	22.6
40°-50°	99.9	25.9
50°-60°	79.3	20.6
60°-70°	23.8	6.2
70°-80°	6.5	1.7
80°-90°	2.2	0.6
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°	86.5	22.5
0°-40°	173.4	45.0
0°-60°	352.6	91.6
0°-90°	385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	385.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	65	53	37	30	29	9
15°	260	134	32	27	27	75
25°	435	227	24	24	27	199
35°	497	274	15	22	27	312
45°	531	227	11	22	27	394
55°	383	86	9	20	26	316
65°	29	4	7	16	23	66
75°	2	2	4	10	15	2
85°	0	1	1	3	5	1
90°	0	0	0	0	0	

TEST NUMBER: P1317777

CATALOG NUMBER: P3SQAS05R659835DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
2.5°	47.5	47.9	47.5	47.5	47.1	46.7	44.0	40.9	37.4	34.7	32.8
5°	65.2	65.6	64.5	64.5	63.7	62.5	53.3	44.4	36.7	32.4	29.7
7.5°	96.5	98.1	96.1	93.8	89.6	88.8	66.4	47.9	35.9	30.1	27.8
10°	145.9	144.8	142.8	138.2	130.9	127.4	84.9	51.3	34.7	28.6	27.0
12.5°	205.8	202.7	200.3	191.9	181.8	176.0	108.1	54.4	33.2	27.0	26.6
15°	260.2	257.9	252.5	244.4	232.0	227.4	134.0	56.4	31.7	25.9	26.6
17.5°	306.1	303.8	300.7	292.6	279.9	272.9	162.9	57.5	29.7	25.1	26.2
20°	343.2	341.6	337.4	330.8	318.1	311.5	186.1	57.5	27.8	24.3	25.9
22.5°	391.0	387.6	382.2	372.5	356.7	346.7	208.1	56.4	25.9	23.5	25.1
25°	435.1	432.7	425.8	414.2	397.2	387.2	226.6	54.0	23.5	22.4	24.3
27.5°	461.3	459.8	453.2	441.2	422.3	414.6	242.0	50.6	21.2	21.2	23.9
30°	481.4	478.3	471.7	460.1	440.8	431.6	256.7	46.3	19.3	20.1	23.2
32.5°	491.4	490.3	484.5	474.4	455.5	445.1	268.7	40.9	17.0	19.3	22.8
35°	497.2	496.0	491.4	481.8	464.0	454.0	273.7	35.9	15.4	18.5	22.4
37.5°	501.8	500.7	494.9	485.2	467.5	457.1	271.4	30.5	13.9	17.8	22.0
40°	507.2	503.0	494.1	484.5	468.2	458.2	265.6	25.5	12.7	17.4	22.0
42.5°	520.4	505.7	491.8	482.9	467.5	455.9	249.0	20.1	11.6	16.6	21.6
45°	530.8	504.9	487.2	480.2	464.4	451.3	227.4	14.7	11.2	16.2	21.6
47.5°	503.4	487.6	479.4	475.6	458.6	444.3	205.0	10.0	10.8	15.8	21.2
50°	460.9	459.0	455.9	456.3	440.8	429.3	172.6	6.9	10.0	15.4	20.8
52.5°	440.5	438.1	432.7	428.9	413.4	403.4	136.7	5.4	9.7	15.1	20.5
55°	383.3	384.9	379.1	381.4	376.8	371.7	86.5	5.0	9.3	14.3	20.1
57.5°	252.5	260.2	273.7	289.9	304.6	314.6	46.7	5.0	8.5	13.9	19.3
60°	225.1	223.1	222.7	225.8	232.4	237.8	16.2	4.6	8.1	12.7	18.5
62.5°	123.1	122.4	134.0	153.6	165.2	166.4	4.6	4.6	7.3	12.0	17.4
65°	29.3	30.5	34.0	42.5	50.2	55.2	3.5	4.2	6.6	11.2	16.2
67.5°	4.6	5.0	5.0	6.2	6.9	6.9	3.1	3.9	5.8	10.0	15.1
70°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.5	5.0	8.9	13.5
72.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.7	3.1	4.2	7.7	11.6
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.7	3.5	6.2	10.0
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.9	2.3	3.1	5.0	8.1
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.9	2.3	3.9	6.2
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.5	1.9	3.1	4.6
85°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	1.2	1.2	1.9	3.1
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8	1.2	1.5
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: P1317777

CATALOG NUMBER: P3SQAS05R659835DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	37.4	37.4
2.5°	31.7	31.3
5°	28.6	28.6
7.5°	27.4	27.4
10°	27.0	27.4
12.5°	27.0	27.4
15°	27.0	27.4
17.5°	27.0	27.4
20°	26.6	27.0
22.5°	26.2	26.6
25°	25.9	26.6
27.5°	25.5	26.6
30°	25.5	26.6
32.5°	25.5	26.6
35°	25.1	26.6
37.5°	25.1	26.6
40°	25.1	26.6
42.5°	25.1	26.6
45°	25.1	26.6
47.5°	25.1	26.6
50°	25.1	26.6
52.5°	24.7	26.6
55°	24.7	26.2
57.5°	23.9	25.5
60°	23.2	24.7
62.5°	22.4	23.9
65°	21.2	22.8
67.5°	20.1	21.2
70°	18.1	19.7
72.5°	16.2	17.4
75°	13.9	15.1
77.5°	11.6	12.7
80°	9.3	10.0
82.5°	6.6	7.3
85°	4.2	4.6
87.5°	1.9	1.9
90°	0.0	0.0

(END OF REPORT)