

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: P1315089

Luminaire Tested: P3SQAS05R559740DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315089
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: P3SQAS05R559740DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

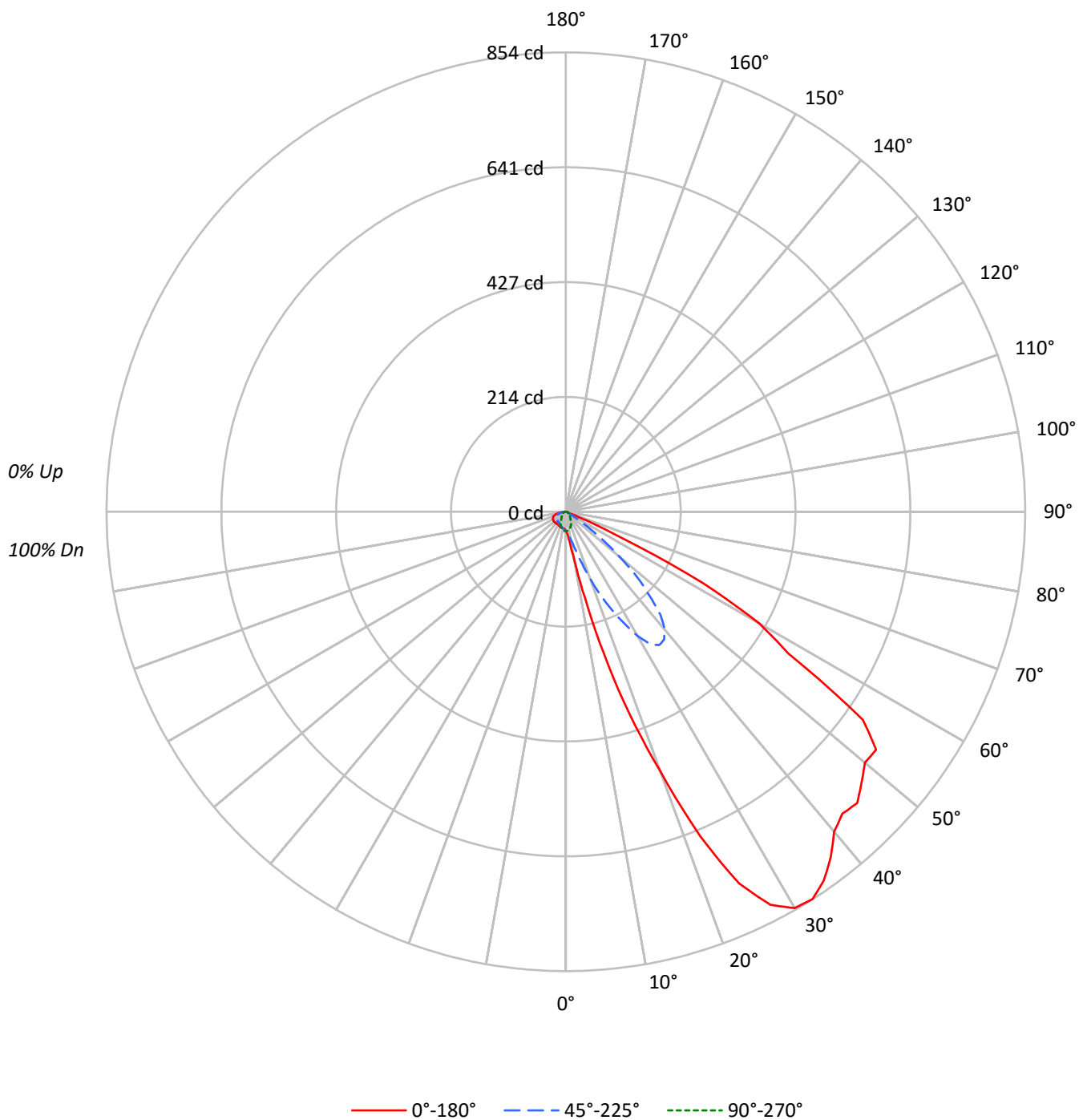
Lumens per Lamp: N/A
Luminaire Lumens: 549.0 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1315089

CATALOG NUMBER: P3SQAS05R559740DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1315089

CATALOG NUMBER: P3SQAS05R559740DE010 E3SQCA451MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	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
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6097	6097	6097	6097	6097
5°	7797	7123	6120	5705	5532
10°	15862	9076	5946	5421	5421
15°	48693	13925	5527	5278	5456
20°	94149	24357	4985	5150	5425
25°	144895	37891	4333	4979	5435
30°	169195	52958	3560	4912	5588
35°	175828	63641	2964	4899	5803
40°	174483	64231	2720	5126	6317
45°	186542	53169	2606	5553	6844
50°	194437	35099	2599	5975	7663
55°	202466	15283	2612	6546	8437
60°	143014	3513	2687	7199	9507
65°	46660	1182	2567	7702	10677
70°	1460	1209	2669	8308	12236
75°	1264	1264	2262	8717	13575
80°	992	1488	2380	8629	14480
85°	988	1976	2964	8695	14425

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 205701 cd/sqm

TEST NUMBER: P1315089

CATALOG NUMBER: P3SQAS05R559740DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.7
10°-20°	23.3	4.2
20°-30°	78.1	14.2
30°-40°	128.3	23.4
40°-50°	143.1	26.1
50°-60°	120.5	21.9
60°-70°	40.9	7.4
70°-80°	8.0	1.5
80°-90°	3.0	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°	105.2	19.2
0°-40°	233.5	42.5
0°-60°	497.1	90.6
0°-90°	549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	549.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	45	41	35	33	32	6
15°	273	78	31	30	31	87
25°	762	199	23	26	29	343
35°	836	303	14	23	28	519
45°	766	218	11	23	28	585
55°	674	51	9	22	28	549
65°	114	3	6	19	26	155
75°	2	2	3	13	20	2
85°	0	1	2	4	7	1
90°	0	0	0	0	0	

TEST NUMBER: P1315089

CATALOG NUMBER: P3SQAS05R559740DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
2.5°	38.8	38.8	38.8	38.8	38.8	38.8	38.3	36.9	35.9	34.4	34.0
5°	45.1	45.1	45.1	44.6	44.6	43.7	41.2	37.8	35.4	33.5	33.0
7.5°	58.2	57.7	56.8	56.3	54.8	54.3	45.6	38.8	34.9	32.5	32.0
10°	90.7	89.7	88.3	82.9	78.1	74.7	51.9	39.3	34.0	31.5	31.0
12.5°	163.5	161.5	154.3	143.1	129.5	122.7	62.1	39.8	32.5	30.6	30.6
15°	273.1	270.7	257.1	241.6	216.8	203.2	78.1	39.3	31.0	29.1	29.6
17.5°	394.4	387.6	373.5	353.1	319.7	303.7	101.9	38.3	29.1	28.1	29.1
20°	513.7	511.8	488.5	460.8	419.6	398.2	132.9	36.9	27.2	26.7	28.1
22.5°	653.4	645.1	620.4	590.8	534.1	505.9	166.4	34.9	25.2	25.2	27.2
25°	762.5	752.8	733.4	699.0	645.1	615.1	199.4	32.5	22.8	23.8	26.2
27.5°	823.7	812.5	797.9	768.4	726.6	700.0	232.4	29.6	20.4	22.3	25.2
30°	850.8	847.9	837.2	815.4	777.1	753.3	266.3	26.2	17.9	20.9	24.7
32.5°	853.7	855.2	850.8	836.8	807.6	787.3	291.5	23.3	16.0	19.9	23.8
35°	836.3	841.6	844.5	838.7	819.8	803.3	302.7	19.9	14.1	18.9	23.3
37.5°	809.1	818.8	828.5	830.0	818.3	807.6	299.8	17.0	13.1	18.4	23.3
40°	776.1	784.9	804.7	817.4	813.5	805.7	285.7	14.1	12.1	17.5	22.8
42.5°	761.1	763.0	784.4	805.7	804.7	798.4	261.0	11.2	11.2	17.5	22.8
45°	765.9	757.2	771.3	796.0	794.6	786.3	218.3	8.7	10.7	17.0	22.8
47.5°	745.6	733.4	757.2	786.3	781.0	768.8	180.4	6.3	10.2	16.5	22.3
50°	725.7	723.7	742.2	756.7	749.4	742.6	131.0	4.9	9.7	16.0	22.3
52.5°	727.1	723.7	725.7	725.2	710.6	703.4	89.7	3.9	9.2	15.5	22.3
55°	674.3	663.6	653.4	656.3	657.3	652.4	50.9	3.4	8.7	15.5	21.8
57.5°	489.9	487.0	498.2	529.7	554.4	557.4	24.7	3.4	8.2	15.0	21.3
60°	415.2	413.3	413.8	423.0	436.1	427.8	10.2	3.4	7.8	14.6	20.9
62.5°	286.2	305.1	312.9	334.2	325.5	313.8	3.9	3.9	7.3	13.6	20.4
65°	114.5	114.0	124.7	134.9	131.9	123.2	2.9	3.4	6.3	12.6	18.9
67.5°	26.7	24.3	20.9	17.9	15.0	12.1	2.9	3.4	5.8	11.6	17.9
70°	2.9	2.9	2.9	2.9	2.9	2.4	2.4	3.4	5.3	10.7	16.5
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.9	4.4	9.2	15.0
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.4	3.4	7.8	13.1
77.5°	1.5	1.5	1.5	1.9	1.5	1.9	1.9	2.4	2.9	6.3	11.2
80°	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.9	2.4	5.3	8.7
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.9	3.9	6.3
85°	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	1.5	2.9	4.4
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	1.5	1.9
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: P1315089

CATALOG NUMBER: P3SQAS05R559740DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	35.4	35.4
2.5°	33.5	33.5
5°	32.5	32.0
7.5°	31.5	31.5
10°	31.0	31.0
12.5°	30.6	31.0
15°	30.6	30.6
17.5°	29.6	30.1
20°	29.1	29.6
22.5°	28.6	29.1
25°	28.1	28.6
27.5°	27.6	28.1
30°	27.2	28.1
32.5°	26.7	27.6
35°	26.7	27.6
37.5°	26.7	28.1
40°	26.7	28.1
42.5°	26.7	28.1
45°	26.7	28.1
47.5°	26.7	28.1
50°	26.7	28.6
52.5°	26.7	28.6
55°	26.7	28.1
57.5°	26.2	28.1
60°	26.2	27.6
62.5°	25.7	27.2
65°	24.7	26.2
67.5°	23.8	25.7
70°	22.3	24.3
72.5°	20.9	22.3
75°	18.9	20.4
77.5°	16.5	17.5
80°	13.1	14.6
82.5°	10.2	11.2
85°	6.8	7.3
87.5°	2.9	3.4
90°	0.0	0.0

(END OF REPORT)