

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: P1314132

Luminaire Tested: P3SQAS05R659735DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314132
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: P3SQAS05R659735DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

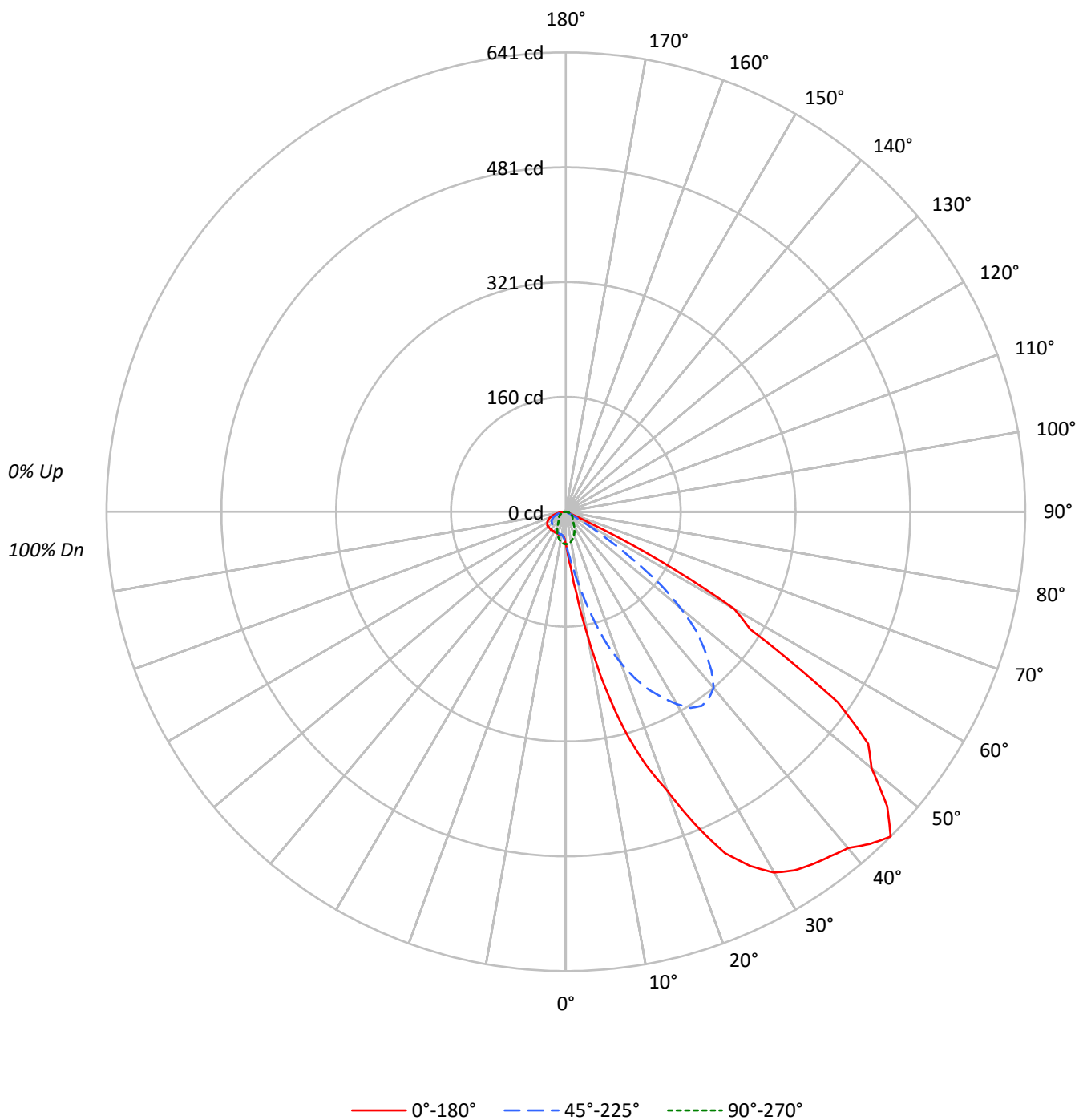
Lumens per Lamp: N/A
Luminaire Lumens: 465.0 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1314132

CATALOG NUMBER: P3SQAS05R659735DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1314132

CATALOG NUMBER: P3SQAS05R659735DE010 E3SQCA451MB

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7784	7784	7784	7784	7784
5°	13623	11116	7659	6206	5964
10°	30814	17943	7345	5701	5789
15°	56021	28849	6811	5741	5902
20°	75968	41182	6158	5718	5975
25°	99859	52010	5397	5587	6119
30°	115620	61648	4634	5568	6403
35°	126252	69507	3911	5677	6770
40°	137725	72122	3462	5980	7239
45°	156146	66881	3288	6357	7843
50°	149157	55837	3242	6752	8627
55°	139021	31347	3363	7266	9518
60°	93620	6751	3376	7716	10264
65°	14426	1712	3219	7987	11207
70°	1662	1662	3072	8208	11984
75°	1530	1530	2795	8052	12111
80°	1389	1884	2777	7438	12001
85°	988	1778	2766	7311	11066

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 156146 cd/sqm

TEST NUMBER: P1314132

CATALOG NUMBER: P3SQAS05R659735DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	1.2
10°-20°	29.6	6.4
20°-30°	69.5	14.9
30°-40°	105.0	22.6
40°-50°	120.6	25.9
50°-60°	95.8	20.6
60°-70°	28.7	6.2
70°-80°	7.8	1.7
80°-90°	2.6	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°	104.5	22.5
0°-40°	209.5	45.0
0°-60°	425.9	91.6
0°-90°	465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	465.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	45	45	45	45	45	
5°	79	64	44	36	34	11
15°	314	162	38	32	33	90
25°	526	274	28	29	32	240
35°	600	331	19	27	32	377
45°	641	275	14	26	32	476
55°	463	104	11	24	32	381
65°	35	4	8	20	28	79
75°	2	2	4	12	18	2
85°	0	1	1	4	6	1
90°	0	0	0	0	0	

TEST NUMBER: P1314132

CATALOG NUMBER: P3SQAS05R659735DE010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
2.5°	57.3	57.8	57.3	57.3	56.9	56.4	53.2	49.4	45.2	42.0	39.6
5°	78.8	79.3	77.9	77.9	76.9	75.5	64.3	53.6	44.3	39.2	35.9
7.5°	116.6	118.4	116.1	113.3	108.2	107.2	80.2	57.8	43.4	36.4	33.6
10°	176.2	174.8	172.5	166.9	158.1	153.9	102.6	62.0	42.0	34.5	32.6
12.5°	248.5	244.8	242.0	231.7	219.6	212.6	130.5	65.7	40.1	32.6	32.2
15°	314.2	311.4	304.9	295.1	280.2	274.6	161.8	68.1	38.2	31.2	32.2
17.5°	369.7	366.9	363.2	353.4	338.0	329.6	196.8	69.5	35.9	30.3	31.7
20°	414.5	412.6	407.5	399.6	384.2	376.3	224.7	69.5	33.6	29.4	31.2
22.5°	472.3	468.1	461.6	449.9	430.8	418.7	251.3	68.1	31.2	28.4	30.3
25°	525.5	522.7	514.3	500.3	479.8	467.6	273.7	65.3	28.4	27.0	29.4
27.5°	557.2	555.3	547.4	532.9	510.1	500.7	292.3	61.1	25.6	25.6	28.9
30°	581.4	577.7	569.7	555.8	532.4	521.3	310.0	55.9	23.3	24.2	28.0
32.5°	593.5	592.1	585.1	573.0	550.2	537.6	324.5	49.4	20.5	23.3	27.5
35°	600.5	599.1	593.5	581.9	560.4	548.3	330.6	43.4	18.6	22.4	27.0
37.5°	606.1	604.7	597.7	586.1	564.6	552.0	327.8	36.8	16.8	21.4	26.6
40°	612.6	607.5	596.8	585.1	565.5	553.4	320.8	30.8	15.4	21.0	26.6
42.5°	628.5	610.8	594.0	583.3	564.6	550.6	300.7	24.2	14.0	20.0	26.1
45°	641.1	609.8	588.4	580.0	560.9	545.0	274.6	17.7	13.5	19.6	26.1
47.5°	608.0	588.9	579.1	574.4	553.9	536.6	247.6	12.1	13.1	19.1	25.6
50°	556.7	554.4	550.6	551.1	532.4	518.5	208.4	8.4	12.1	18.6	25.2
52.5°	532.0	529.2	522.7	518.0	499.3	487.2	165.0	6.5	11.7	18.2	24.7
55°	463.0	464.8	457.8	460.6	455.0	449.0	104.4	6.1	11.2	17.3	24.2
57.5°	304.9	314.2	330.6	350.1	367.9	380.0	56.4	6.1	10.3	16.8	23.3
60°	271.8	269.5	269.0	272.7	280.7	287.2	19.6	5.6	9.8	15.4	22.4
62.5°	148.7	147.8	161.8	185.6	199.6	200.9	5.6	5.6	8.9	14.5	21.0
65°	35.4	36.8	41.0	51.3	60.6	66.7	4.2	5.1	7.9	13.5	19.6
67.5°	5.6	6.1	6.1	7.5	8.4	8.4	3.7	4.7	7.0	12.1	18.2
70°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.2	6.1	10.7	16.3
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	3.3	3.7	5.1	9.3	14.0
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.3	4.2	7.5	12.1
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	2.3	2.8	3.7	6.1	9.8
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.9	2.3	2.8	4.7	7.5
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.9	2.3	3.7	5.6
85°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	1.4	1.4	2.3	3.7
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9	1.4	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: P1314132

CATALOG NUMBER: P3SQAS05R659735DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	45.2	45.2
2.5°	38.2	37.8
5°	34.5	34.5
7.5°	33.1	33.1
10°	32.6	33.1
12.5°	32.6	33.1
15°	32.6	33.1
17.5°	32.6	33.1
20°	32.2	32.6
22.5°	31.7	32.2
25°	31.2	32.2
27.5°	30.8	32.2
30°	30.8	32.2
32.5°	30.8	32.2
35°	30.3	32.2
37.5°	30.3	32.2
40°	30.3	32.2
42.5°	30.3	32.2
45°	30.3	32.2
47.5°	30.3	32.2
50°	30.3	32.2
52.5°	29.8	32.2
55°	29.8	31.7
57.5°	28.9	30.8
60°	28.0	29.8
62.5°	27.0	28.9
65°	25.6	27.5
67.5°	24.2	25.6
70°	21.9	23.8
72.5°	19.6	21.0
75°	16.8	18.2
77.5°	14.0	15.4
80°	11.2	12.1
82.5°	7.9	8.9
85°	5.1	5.6
87.5°	2.3	2.3
90°	0.0	0.0

(END OF REPORT)