

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: P1306639

Luminaire Tested: P3SQAS05R659027DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306639
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: P3SQAS05R659027DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

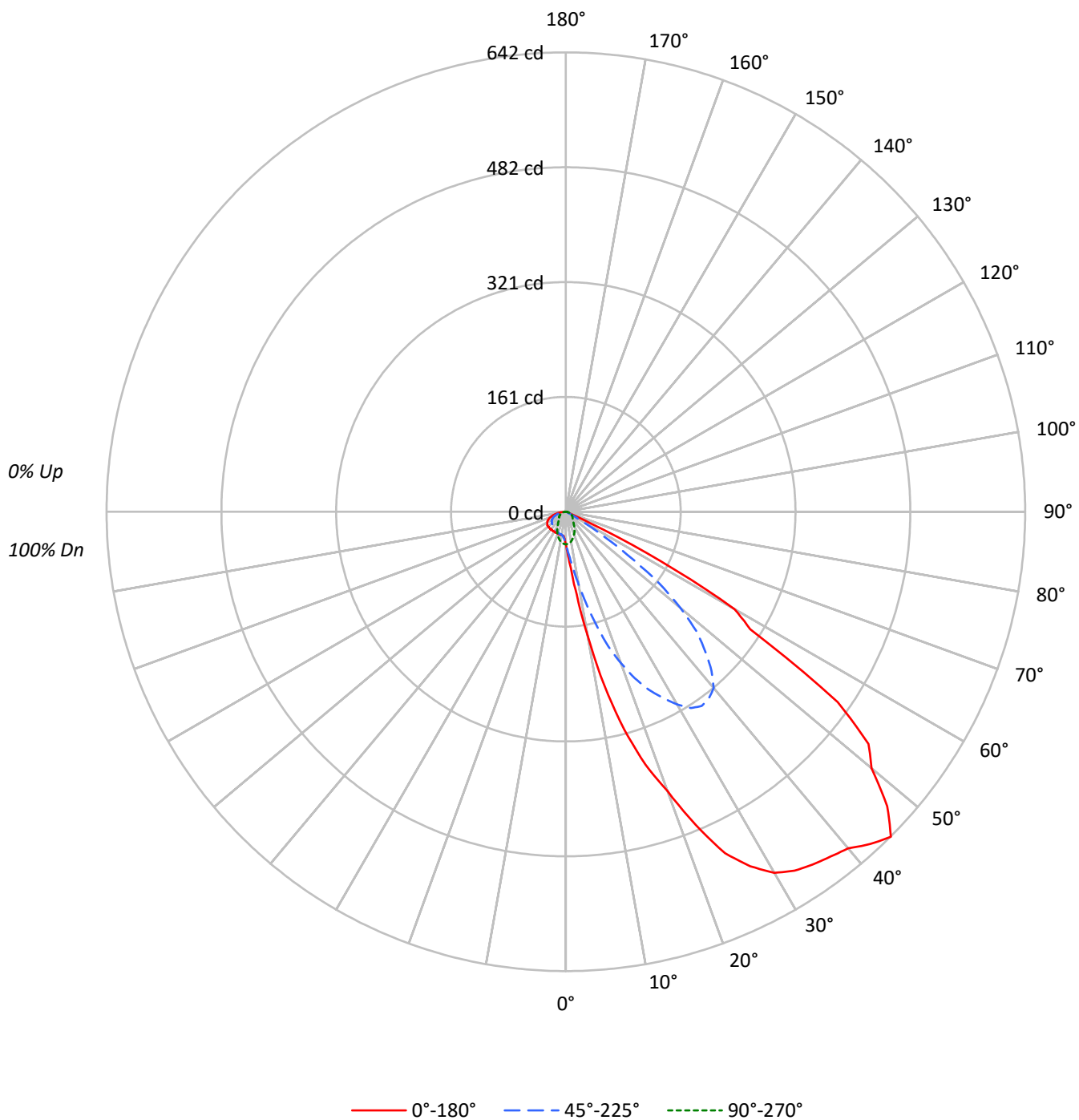
Lumens per Lamp: N/A
Luminaire Lumens: 466.0 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1306639

CATALOG NUMBER: P3SQAS05R659027DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1306639

CATALOG NUMBER: P3SQAS05R659027DE010 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	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°	7802	7802	7802	7802	7802
5°	13658	11151	7676	6224	5982
10°	30884	17978	7362	5719	5806
15°	56146	28902	6829	5741	5919
20°	76133	41274	6158	5737	5993
25°	100068	52124	5416	5587	6119
30°	115879	61788	4653	5568	6403
35°	126525	69654	3932	5698	6770
40°	138040	72280	3462	5980	7239
45°	156487	67028	3312	6381	7843
50°	149479	55971	3242	6752	8627
55°	139321	31437	3363	7296	9548
60°	93827	6751	3376	7716	10299
65°	14467	1712	3219	7987	11247
70°	1662	1662	3072	8258	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: 156487 cd/sqm

TEST NUMBER: P1306639

CATALOG NUMBER: P3SQAS05R659027DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	1.2
10°-20°	29.6	6.4
20°-30°	69.6	14.9
30°-40°	105.2	22.6
40°-50°	120.9	25.9
50°-60°	96.0	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°	104.7	22.5
0°-40°	209.9	45.0
0°-60°	426.8	91.6
0°-90°	466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	466.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	45	45	45	45	45	
5°	79	64	44	36	35	11
15°	315	162	38	32	33	91
25°	527	274	28	29	32	240
35°	602	331	19	27	32	378
45°	642	275	14	26	32	477
55°	464	105	11	24	32	382
65°	36	4	8	20	28	80
75°	2	2	4	12	18	2
85°	0	1	1	4	6	1
90°	0	0	0	0	0	

TEST NUMBER: P1306639

CATALOG NUMBER: P3SQAS05R659027DE010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
2.5°	57.5	57.9	57.5	57.5	57.0	56.5	53.3	49.5	45.3	42.1	39.7
5°	79.0	79.4	78.0	78.0	77.1	75.7	64.5	53.7	44.4	39.2	36.0
7.5°	116.8	118.7	116.3	113.5	108.4	107.5	80.4	57.9	43.5	36.4	33.6
10°	176.6	175.2	172.9	167.3	158.4	154.2	102.8	62.1	42.1	34.6	32.7
12.5°	249.0	245.3	242.5	232.2	220.1	213.1	130.8	65.9	40.2	32.7	32.2
15°	314.9	312.1	305.6	295.8	280.8	275.2	162.1	68.2	38.3	31.3	32.2
17.5°	370.5	367.7	364.0	354.2	338.8	330.3	197.2	69.6	36.0	30.4	31.8
20°	415.4	413.5	408.4	400.4	385.0	377.1	225.2	69.6	33.6	29.4	31.3
22.5°	473.3	469.1	462.6	450.9	431.7	419.6	251.8	68.2	31.3	28.5	30.4
25°	526.6	523.8	515.4	501.4	480.8	468.6	274.3	65.4	28.5	27.1	29.4
27.5°	558.4	556.5	548.5	534.1	511.2	501.8	293.0	61.2	25.7	25.7	29.0
30°	582.7	578.9	571.0	557.0	533.6	522.4	310.7	56.1	23.4	24.3	28.0
32.5°	594.8	593.4	586.4	574.2	551.3	538.7	325.2	49.5	20.6	23.4	27.6
35°	601.8	600.4	594.8	583.1	561.6	549.5	331.3	43.5	18.7	22.4	27.1
37.5°	607.4	606.0	599.0	587.3	565.8	553.2	328.5	36.9	16.8	21.5	26.6
40°	614.0	608.8	598.1	586.4	566.8	554.6	321.5	30.8	15.4	21.0	26.6
42.5°	629.8	612.1	595.3	584.5	565.8	551.8	301.4	24.3	14.0	20.1	26.2
45°	642.5	611.2	589.7	581.2	562.1	546.2	275.2	17.8	13.6	19.6	26.2
47.5°	609.3	590.1	580.3	575.6	555.1	537.8	248.1	12.1	13.1	19.2	25.7
50°	557.9	555.6	551.8	552.3	533.6	519.6	208.9	8.4	12.1	18.7	25.2
52.5°	533.1	530.3	523.8	519.1	500.4	488.3	165.4	6.5	11.7	18.2	24.8
55°	464.0	465.8	458.8	461.6	456.0	450.0	104.7	6.1	11.2	17.3	24.3
57.5°	305.6	314.9	331.3	350.9	368.7	380.8	56.5	6.1	10.3	16.8	23.4
60°	272.4	270.1	269.6	273.3	281.3	287.8	19.6	5.6	9.8	15.4	22.4
62.5°	149.1	148.1	162.1	186.0	200.0	201.4	5.6	5.6	8.9	14.5	21.0
65°	35.5	36.9	41.1	51.4	60.7	66.8	4.2	5.1	7.9	13.6	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	16.4
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: P1306639

CATALOG NUMBER: P3SQAS05R659027DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	45.3	45.3
2.5°	38.3	37.8
5°	34.6	34.6
7.5°	33.2	33.2
10°	32.7	33.2
12.5°	32.7	33.2
15°	32.7	33.2
17.5°	32.7	33.2
20°	32.2	32.7
22.5°	31.8	32.2
25°	31.3	32.2
27.5°	30.8	32.2
30°	30.8	32.2
32.5°	30.8	32.2
35°	30.4	32.2
37.5°	30.4	32.2
40°	30.4	32.2
42.5°	30.4	32.2
45°	30.4	32.2
47.5°	30.4	32.2
50°	30.4	32.2
52.5°	29.9	32.2
55°	29.9	31.8
57.5°	29.0	30.8
60°	28.0	29.9
62.5°	27.1	29.0
65°	25.7	27.6
67.5°	24.3	25.7
70°	22.0	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)