

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: P1316151

Luminaire Tested: P3SQAS09R559827DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-54)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R559827DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

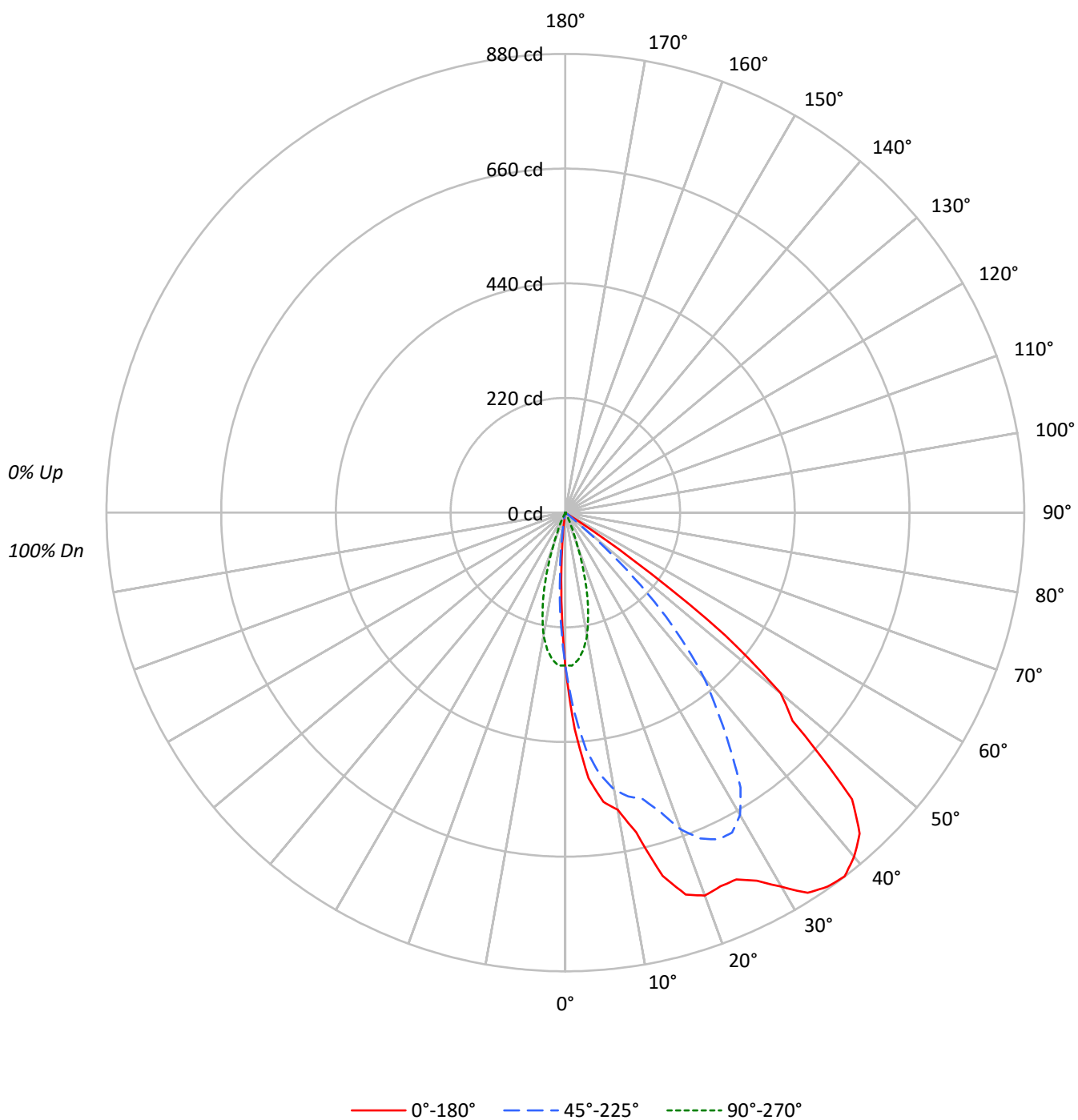
Lumens per Lamp: N/A
Luminaire Lumens: 542.0 lumens
Efficiency: N/A
Efficacy: 49.3 lumens/watt
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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: P1316151

CATALOG NUMBER: P3SQAS09R559827DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1316151

CATALOG NUMBER: P3SQAS09R559827DE010 E3SQCA301MB

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96	94	93	91
2	105	99	95	90	103	98	93	89	94	91	87		91	88	86		88	86	84	82
3	98	91	84	80	96	89	83	79	86	82	78		84	80	76		81	78	75	73
4	92	82	76	71	90	81	75	70	79	74	69		77	72	68		75	71	68	66
5	86	75	68	63	84	74	68	63	72	67	62		71	65	61		69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56		65	60	55		64	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50		60	54	50		59	54	50	48
8	70	58	51	46	68	58	51	46	56	50	46		55	50	46		54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42		51	46	42		50	45	41	40
10	62	50	43	38	60	49	43	38	49	42	38		48	42	38		47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	50444	50444	50444	50444	50444
5°	88411	78816	48960	20348	11704
10°	101185	94330	41866	2221	804
15°	128589	101255	28706	446	267
20°	143285	118469	12609	0	0
25°	147499	131441	3573	0	0
30°	164800	133200	497	0	0
35°	184196	115656	0	0	0
40°	193750	93098	0	0	0
45°	189441	58795	0	0	0
50°	144254	12003	0	0	0
55°	47261	0	0	0	0
60°	0	0	0	0	0
65°	0	204	204	0	0
70°	0	252	252	0	0
75°	0	333	333	0	0
80°	0	496	992	496	0
85°	0	988	988	988	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 189441 cd/sqm

TEST NUMBER: P1316151

CATALOG NUMBER: P3SQAS09R559827DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	4.9
10°-20°	78.4	14.5
20°-30°	127.5	23.5
30°-40°	151.6	28.0
40°-50°	123.9	22.9
50°-60°	32.9	6.1
60°-70°	0.2	0.0
70°-80°	0.3	0.1
80°-90°	0.4	0.1
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°	232.7	42.9
0°-40°	384.3	70.9
0°-60°	541.1	99.8
0°-90°	542.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	542.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	293	293	293	293	293	
5°	511	456	283	118	68	50
15°	721	568	161	2	2	202
25°	776	692	19	0	0	366
35°	876	550	0	0	0	545
45°	778	241	0	0	0	558
55°	157	0	0	0	0	177
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1316151

CATALOG NUMBER: P3SQAS09R559827DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	292.9	292.9	292.9	292.9	292.9	292.9	292.9	292.9	292.9	292.9	292.9
2.5°	415.6	412.6	413.1	411.6	413.1	406.5	399.3	392.7	387.6	380.5	337.2
5°	511.4	506.3	504.8	502.7	500.7	492.5	485.9	477.8	468.1	455.9	376.4
7.5°	559.8	555.7	553.7	554.7	550.1	547.0	538.4	529.2	519.0	505.8	405.9
10°	578.6	574.5	574.0	573.5	573.0	571.0	566.9	558.8	549.6	539.4	422.8
12.5°	628.0	618.9	612.7	605.6	597.0	585.7	576.6	569.4	565.9	557.7	430.4
15°	721.2	712.6	706.0	696.8	680.5	656.5	634.6	606.6	582.2	567.9	427.3
17.5°	768.1	764.0	758.4	752.3	741.1	723.8	701.4	671.8	640.8	600.5	412.6
20°	781.8	779.8	775.7	773.2	765.5	753.3	738.0	715.1	686.1	646.4	389.6
22.5°	776.2	777.8	779.8	786.4	787.4	778.8	764.5	742.6	713.1	676.4	354.5
25°	776.2	775.2	775.2	789.0	797.6	793.6	783.4	763.5	733.5	691.7	311.2
27.5°	796.1	790.0	777.3	791.5	805.8	804.3	795.1	771.7	738.0	692.2	258.2
30°	828.7	815.5	794.6	807.8	821.1	815.5	800.7	770.6	727.9	669.8	193.6
32.5°	864.9	858.8	848.1	856.7	854.7	832.3	805.8	764.0	707.0	625.0	130.4
35°	876.1	877.1	870.0	868.4	856.7	833.8	805.8	745.2	663.2	550.1	77.4
37.5°	879.6	880.1	868.9	854.7	837.4	810.4	776.8	706.5	582.2	477.8	41.3
40°	861.8	861.3	843.0	825.6	806.3	779.8	730.9	625.0	505.3	414.1	14.8
42.5°	835.3	828.7	811.4	790.0	766.6	733.5	657.1	527.7	439.1	331.6	1.0
45°	777.8	771.7	757.9	735.0	709.0	662.1	541.4	453.3	357.1	241.4	0.0
47.5°	591.3	588.3	602.6	605.6	605.1	551.6	451.8	369.8	262.3	140.6	0.0
50°	538.4	534.3	520.0	501.7	469.1	424.3	362.1	274.0	153.8	44.8	0.0
52.5°	386.6	399.8	402.9	389.1	358.6	314.3	249.6	157.9	53.5	0.0	0.0
55°	157.4	149.2	155.4	163.0	169.1	155.4	115.1	56.0	0.5	0.0	0.0
57.5°	0.0	0.5	3.1	7.1	11.7	14.8	15.8	1.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.5	0.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
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: P1316151

CATALOG NUMBER: P3SQAS09R559827DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	292.9	292.9	292.9	292.9	292.9
2.5°	293.9	248.6	204.8	180.8	169.1
5°	283.2	190.0	117.7	81.5	67.7
7.5°	265.4	130.4	46.9	19.4	13.8
10°	239.4	74.9	12.7	5.1	4.6
12.5°	202.2	34.1	4.6	3.6	3.6
15°	161.0	11.7	2.5	2.0	1.5
17.5°	113.1	3.1	1.0	0.0	0.0
20°	68.8	0.5	0.0	0.0	0.0
22.5°	38.2	0.0	0.0	0.0	0.0
25°	18.8	0.0	0.0	0.0	0.0
27.5°	8.1	0.0	0.0	0.0	0.0
30°	2.5	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.5	0.0	0.0	0.0	0.0
65°	0.5	0.5	0.0	0.0	0.0
67.5°	0.5	0.5	0.0	0.0	0.0
70°	0.5	0.5	0.0	0.0	0.0
72.5°	0.5	0.5	0.0	0.0	0.0
75°	0.5	0.5	0.0	0.0	0.0
77.5°	1.0	0.5	0.5	0.0	0.0
80°	1.0	0.5	0.5	0.0	0.0
82.5°	1.0	0.5	0.5	0.0	0.0
85°	0.5	0.5	0.5	0.0	0.0
87.5°	1.0	0.5	0.5	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)