

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: P1306611

Luminaire Tested: P3SQAS05R509027DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R509027DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

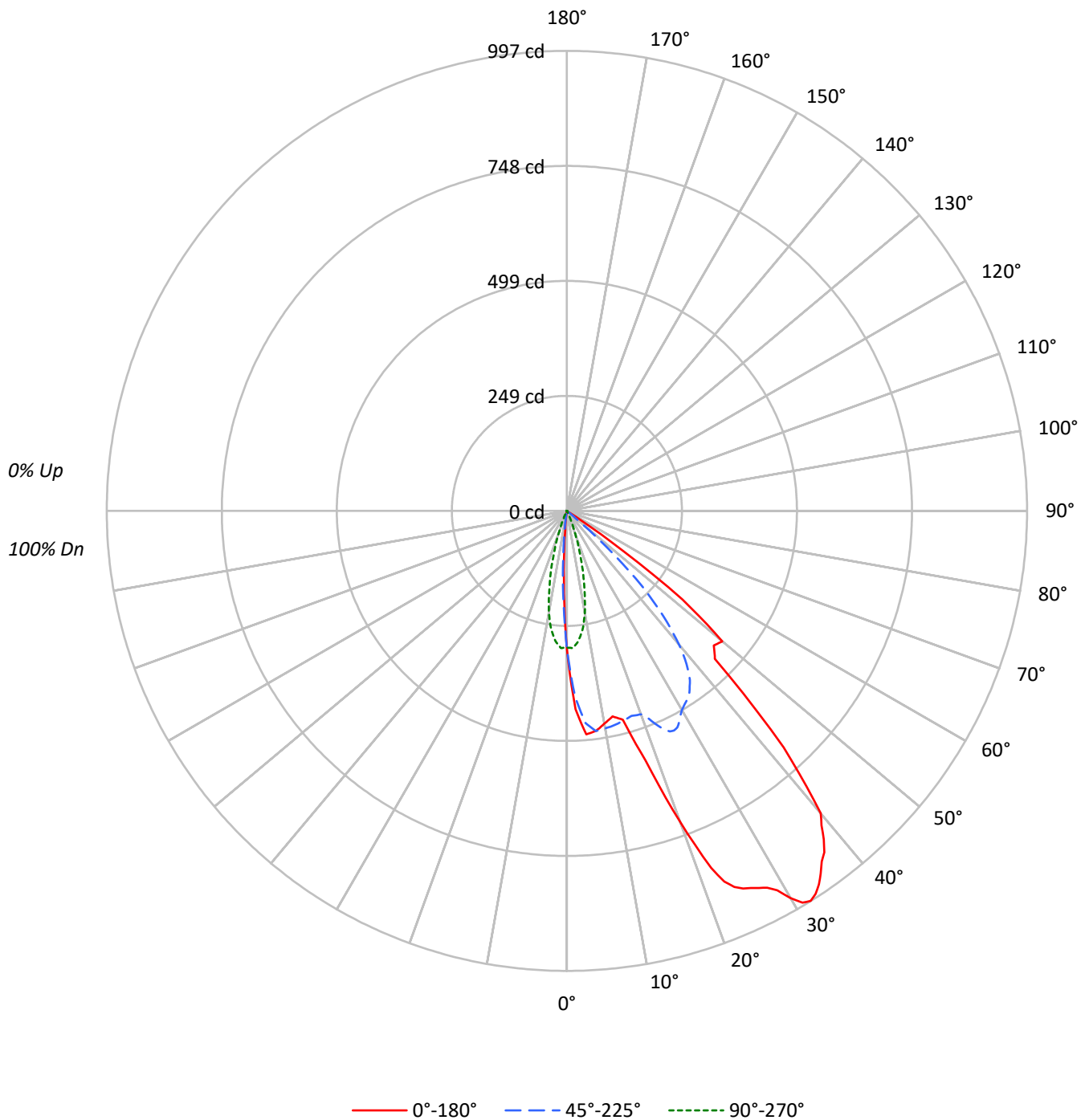
Lumens per Lamp: N/A
Luminaire Lumens: 477.0 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1306611

CATALOG NUMBER: P3SQAS05R509027DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1306611

CATALOG NUMBER: P3SQAS05R509027DE010 E3SQCA301MB

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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82		
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74		
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66		
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59		
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54		
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48		
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44		
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	51012	51012	51012	51012	51012
5°	84037	79750	49012	14557	7278
10°	81896	83697	39278	734	979
15°	83497	83996	23518	749	250
20°	131628	86011	9695	0	0
25°	171594	100201	2318	0	0
30°	192601	99095	99	0	0
35°	201562	97575	0	0	0
40°	192289	84780	0	0	0
45°	110430	55946	0	0	0
50°	117836	6404	0	0	0
55°	33569	0	0	0	0
60°	0	0	172	0	0
65°	0	204	204	0	0
70°	0	252	252	0	0
75°	0	333	333	0	0
80°	0	496	893	496	0
85°	0	988	1778	988	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 121926 cd/sqm

TEST NUMBER: P1306611

CATALOG NUMBER: P3SQAS05R509027DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.9	5.2
10°-20°	62.7	13.1
20°-30°	120.4	25.2
30°-40°	140.1	29.4
40°-50°	100.3	21.0
50°-60°	27.9	5.9
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°	207.9	43.6
0°-40°	348.0	73.0
0°-60°	476.2	99.8
0°-90°	477.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	477.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	296	296	296	296	296	
5°	486	461	284	84	42	45
15°	468	471	132	4	1	151
25°	903	527	12	0	0	411
35°	959	464	0	0	0	593
45°	453	230	0	0	0	426
55°	112	0	0	0	0	141
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1306611

CATALOG NUMBER: P3SQAS05R509027DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2
2.5°	430.4	432.8	433.2	427.6	428.6	420.6	421.1	415.5	401.9	354.6	297.6
5°	486.1	484.7	486.1	484.2	486.1	481.4	478.6	476.3	461.3	394.4	283.5
7.5°	481.0	479.1	481.9	482.8	486.1	484.7	485.2	486.6	481.4	415.9	259.7
10°	468.3	467.9	469.3	469.3	473.0	473.5	475.4	478.2	478.6	423.4	224.6
12.5°	456.2	454.8	454.8	454.3	456.2	455.7	460.4	466.9	475.8	418.7	176.4
15°	468.3	466.9	465.1	459.9	456.2	452.0	452.4	456.6	471.1	406.6	131.9
17.5°	566.6	559.1	549.7	533.4	516.1	486.1	468.3	457.1	465.5	387.9	88.0
20°	718.2	714.9	699.9	673.3	645.2	601.2	546.5	502.5	469.3	364.5	52.9
21°	775.7	773.9	757.9	733.1	701.3	648.0	591.9	539.0	476.8	354.6	41.6
22°	834.7	827.7	815.0	787.4	754.2	700.9	638.2	579.7	491.7	342.0	31.8
23°	872.6	868.4	854.8	832.8	801.0	749.1	685.0	621.3	506.2	328.0	23.9
24°	892.2	890.8	880.1	864.6	837.5	784.6	723.8	658.3	518.4	311.6	17.3
25°	903.0	898.3	891.8	880.5	859.9	814.1	759.8	690.6	527.3	295.2	12.2
26°	909.5	906.7	896.4	886.6	867.0	829.5	783.2	710.2	529.6	275.1	8.4
27°	917.0	910.5	900.6	889.0	867.0	834.2	792.1	718.6	526.8	254.5	5.6
28°	925.0	920.3	906.7	891.8	865.6	834.2	788.8	707.4	518.4	234.9	3.3
29°	940.4	934.3	917.5	895.5	866.0	833.3	776.2	684.0	507.2	212.9	1.9
30°	968.5	955.9	935.3	904.4	869.3	831.4	755.1	648.9	498.3	188.1	0.5
31°	990.5	983.5	959.6	920.8	878.7	826.3	730.3	614.3	492.2	166.6	0.0
32°	996.6	991.4	974.1	937.6	894.6	822.0	702.3	580.6	487.5	142.7	0.0
33°	989.5	986.3	968.0	934.8	898.8	816.4	670.0	547.4	482.4	121.2	0.0
34°	976.4	972.2	956.3	922.6	888.0	792.1	639.1	522.1	474.9	101.1	0.0
35°	958.7	955.4	939.0	905.8	868.4	754.2	608.2	505.3	464.1	80.9	0.0
36°	939.5	938.5	917.5	884.7	843.1	717.7	570.8	492.7	453.4	64.1	0.0
37°	926.8	922.2	899.2	867.0	813.2	675.1	540.9	488.5	438.4	49.6	0.0
38°	903.9	904.9	878.7	849.2	782.7	638.2	516.5	485.2	421.5	36.0	0.0
39°	876.8	877.3	850.1	824.9	746.7	599.3	496.4	481.9	400.5	22.9	0.0
40°	855.3	854.8	823.9	796.8	707.9	562.8	485.6	477.2	377.1	13.1	0.0
42.5°	695.3	698.1	701.8	713.0	616.7	498.7	475.4	451.0	310.7	0.0	0.0
45°	453.4	464.1	466.9	500.6	500.2	472.5	451.0	404.2	229.7	0.0	0.0
47.5°	431.4	434.6	440.7	453.8	460.9	447.3	403.3	337.8	125.4	0.0	0.0
50°	439.8	439.3	440.7	440.7	428.1	393.0	330.8	249.4	23.9	0.0	0.0
52.5°	315.8	327.5	340.1	345.8	329.4	292.4	241.4	146.4	0.0	0.0	0.0
55°	111.8	108.1	105.3	115.1	112.8	126.8	104.8	34.2	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.5	1.9	4.2	5.6	0.0	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	0.5	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	0.0	0.0	0.5	0.5	0.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	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	0.5	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	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.9



TEST NUMBER: P1306611

CATALOG NUMBER: P3SQAS05R509027DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.9
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: P1306611

CATALOG NUMBER: P3SQAS05R509027DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	296.2	296.2	296.2	296.2
2.5°	237.2	182.0	147.4	149.7
5°	166.6	84.2	51.9	42.1
7.5°	99.7	25.7	5.1	4.2
10°	46.8	4.2	4.7	5.6
12.5°	14.0	3.7	5.1	4.7
15°	3.7	4.2	2.3	1.4
17.5°	1.4	1.9	0.0	0.0
20°	0.9	0.0	0.0	0.0
21°	0.9	0.0	0.0	0.0
22°	0.5	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.5	0.0	0.0	0.0
67.5°	0.5	0.0	0.0	0.0
70°	0.5	0.0	0.0	0.0
72.5°	0.5	0.0	0.0	0.0
75°	0.5	0.0	0.0	0.0
77.5°	0.5	0.0	0.0	0.0
80°	0.5	0.5	0.0	0.0



TEST NUMBER: P1306611

CATALOG NUMBER: P3SQAS05R509027DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.5	0.5	0.0	0.0
85°	0.5	0.5	0.0	0.0
87.5°	0.5	0.5	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)