

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: P1314104

Luminaire Tested: P3SQAS05R509735DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314104
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: P3SQAS05R509735DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

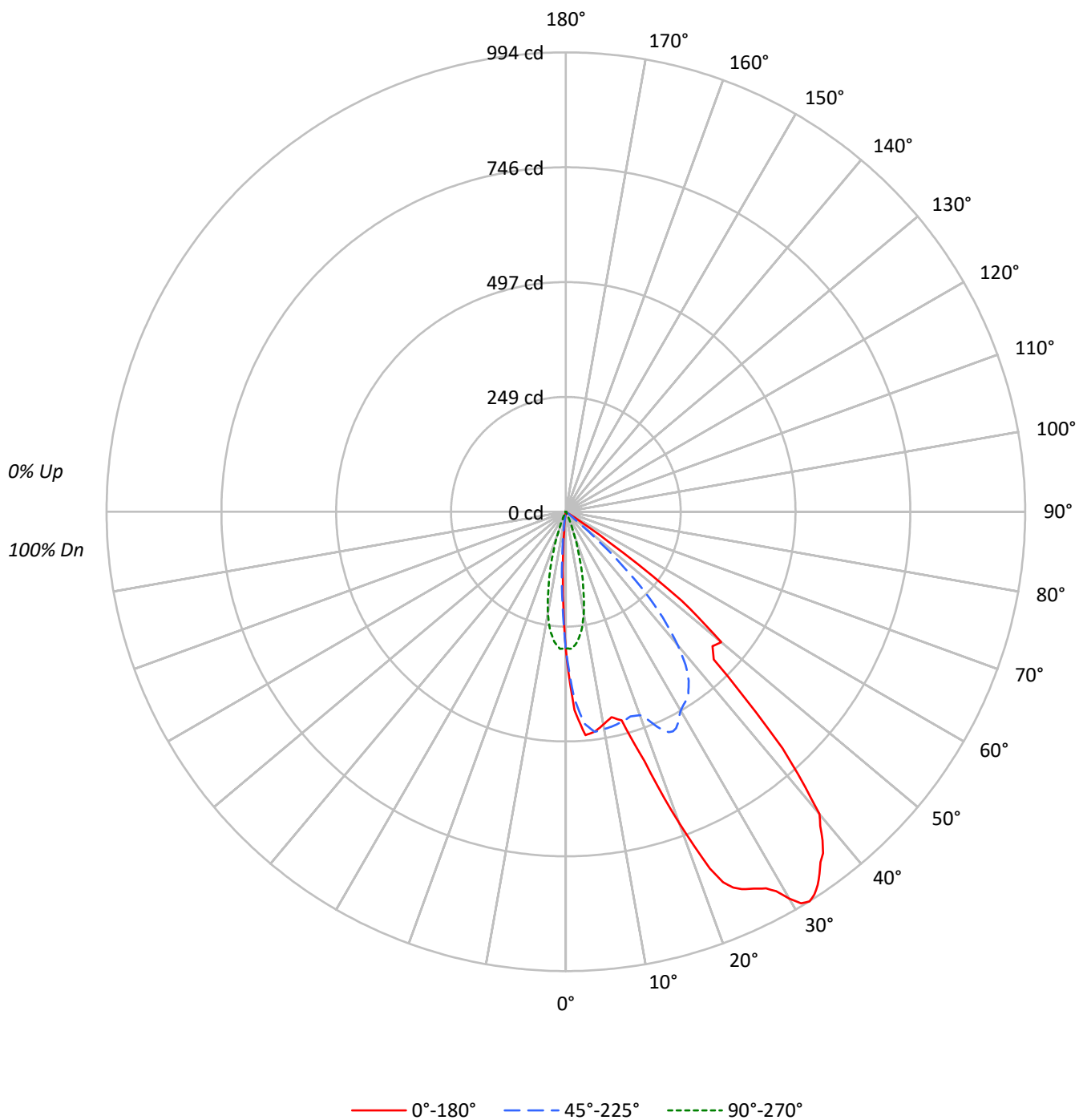
Lumens per Lamp: N/A
Luminaire Lumens: 476.0 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1314104

CATALOG NUMBER: P3SQAS05R509735DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1314104

CATALOG NUMBER: P3SQAS05R509735DE010 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°	50892	50892	50892	50892	50892
5°	83864	79594	48908	14522	7261
10°	81739	83522	39190	734	979
15°	83336	83836	23482	749	250
20°	131354	85828	9677	0	0
25°	171233	99992	2299	0	0
30°	192204	98876	99	0	0
35°	201141	97385	0	0	0
40°	191884	84600	0	0	0
45°	110186	55824	0	0	0
50°	117595	6377	0	0	0
55°	33509	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: 121682 cd/sqm

TEST NUMBER: P1314104

CATALOG NUMBER: P3SQAS05R509735DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.8	5.2
10°-20°	62.5	13.1
20°-30°	120.1	25.2
30°-40°	139.8	29.4
40°-50°	100.1	21.0
50°-60°	27.8	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°	207.5	43.6
0°-40°	347.3	73.0
0°-60°	475.2	99.8
0°-90°	476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	476.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	296	296	296	296	296	
5°	485	460	283	84	42	45
15°	467	470	132	4	1	151
25°	901	526	12	0	0	410
35°	957	463	0	0	0	592
45°	452	229	0	0	0	425
55°	112	0	0	0	0	140
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: P1314104

CATALOG NUMBER: P3SQAS05R509735DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	295.5	295.5	295.5	295.5	295.5	295.5	295.5	295.5	295.5	295.5	295.5
2.5°	429.5	431.9	432.3	426.7	427.7	419.7	420.2	414.6	401.1	353.9	296.9
5°	485.1	483.7	485.1	483.2	485.1	480.4	477.6	475.3	460.4	393.6	282.9
7.5°	480.0	478.1	480.9	481.8	485.1	483.7	484.2	485.6	480.4	415.1	259.1
10°	467.4	466.9	468.3	468.3	472.0	472.5	474.4	477.2	477.6	422.5	224.1
12.5°	455.2	453.8	453.8	453.3	455.2	454.7	459.4	466.0	474.8	417.9	176.0
15°	467.4	466.0	464.1	459.0	455.2	451.0	451.5	455.7	470.2	405.7	131.7
17.5°	565.4	557.9	548.6	532.3	515.0	485.1	467.4	456.1	464.6	387.0	87.8
20°	716.7	713.4	698.5	671.9	643.8	600.0	545.3	501.4	468.3	363.7	52.8
21°	774.1	772.2	756.4	731.6	699.9	646.6	590.6	537.9	475.8	353.9	41.6
22°	832.9	825.9	813.3	785.8	752.6	699.4	636.8	578.5	490.7	341.3	31.7
23°	870.7	866.5	853.0	831.1	799.3	747.5	683.5	620.0	505.2	327.3	23.8
24°	890.4	889.0	878.2	862.8	835.7	783.0	722.3	656.9	517.3	310.9	17.3
25°	901.1	896.4	889.9	878.7	858.1	812.4	758.2	689.1	526.2	294.6	12.1
26°	907.6	904.8	894.6	884.8	865.1	827.8	781.6	708.7	528.5	274.5	8.4
27°	915.1	908.6	898.8	887.1	865.1	832.5	790.4	717.1	525.7	254.0	5.6
28°	923.0	918.4	904.8	889.9	863.7	832.5	787.2	705.9	517.3	234.4	3.3
29°	938.4	932.4	915.6	893.6	864.2	831.5	774.6	682.6	506.1	212.4	1.9
30°	966.5	953.9	933.3	902.5	867.5	829.7	753.6	647.6	497.2	187.7	0.5
31°	988.4	981.4	957.6	918.8	876.8	824.5	728.8	613.0	491.2	166.2	0.0
32°	994.5	989.3	972.1	935.6	892.7	820.3	700.8	579.4	486.5	142.4	0.0
33°	987.5	984.2	966.0	932.8	896.9	814.7	668.6	546.3	481.4	120.9	0.0
34°	974.4	970.2	954.3	920.7	886.2	790.4	637.8	521.0	473.9	100.8	0.0
35°	956.7	953.4	937.0	903.9	866.5	752.6	607.0	504.2	463.2	80.8	0.0
36°	937.5	936.6	915.6	882.9	841.3	716.2	569.6	491.6	452.4	64.0	0.0
37°	924.9	920.2	897.4	865.1	811.5	673.7	539.7	487.4	437.5	49.5	0.0
38°	902.0	903.0	876.8	847.4	781.1	636.8	515.4	484.2	420.7	36.0	0.0
39°	874.9	875.4	848.3	823.1	745.2	598.1	495.4	480.9	399.7	22.9	0.0
40°	853.5	853.0	822.2	795.1	706.4	561.7	484.6	476.2	376.3	13.1	0.0
42.5°	693.8	696.6	700.3	711.5	615.4	497.7	474.4	450.1	310.0	0.0	0.0
45°	452.4	463.2	466.0	499.6	499.1	471.6	450.1	403.4	229.2	0.0	0.0
47.5°	430.5	433.7	439.8	452.9	459.9	446.3	402.5	337.1	125.1	0.0	0.0
50°	438.9	438.4	439.8	439.8	427.2	392.2	330.1	248.9	23.8	0.0	0.0
52.5°	315.1	326.8	339.4	345.0	328.7	291.8	240.9	146.1	0.0	0.0	0.0
55°	111.6	107.9	105.0	114.9	112.5	126.5	104.6	34.1	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: P1314104

CATALOG NUMBER: P3SQAS05R509735DE010 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: P1314104

CATALOG NUMBER: P3SQAS05R509735DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	295.5	295.5	295.5	295.5
2.5°	236.7	181.6	147.1	149.4
5°	166.2	84.0	51.8	42.0
7.5°	99.4	25.7	5.1	4.2
10°	46.7	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: P1314104

CATALOG NUMBER: P3SQAS05R509735DE010 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)