

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: P1313033

Luminaire Tested: P3SQAS05R159730DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R159730DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

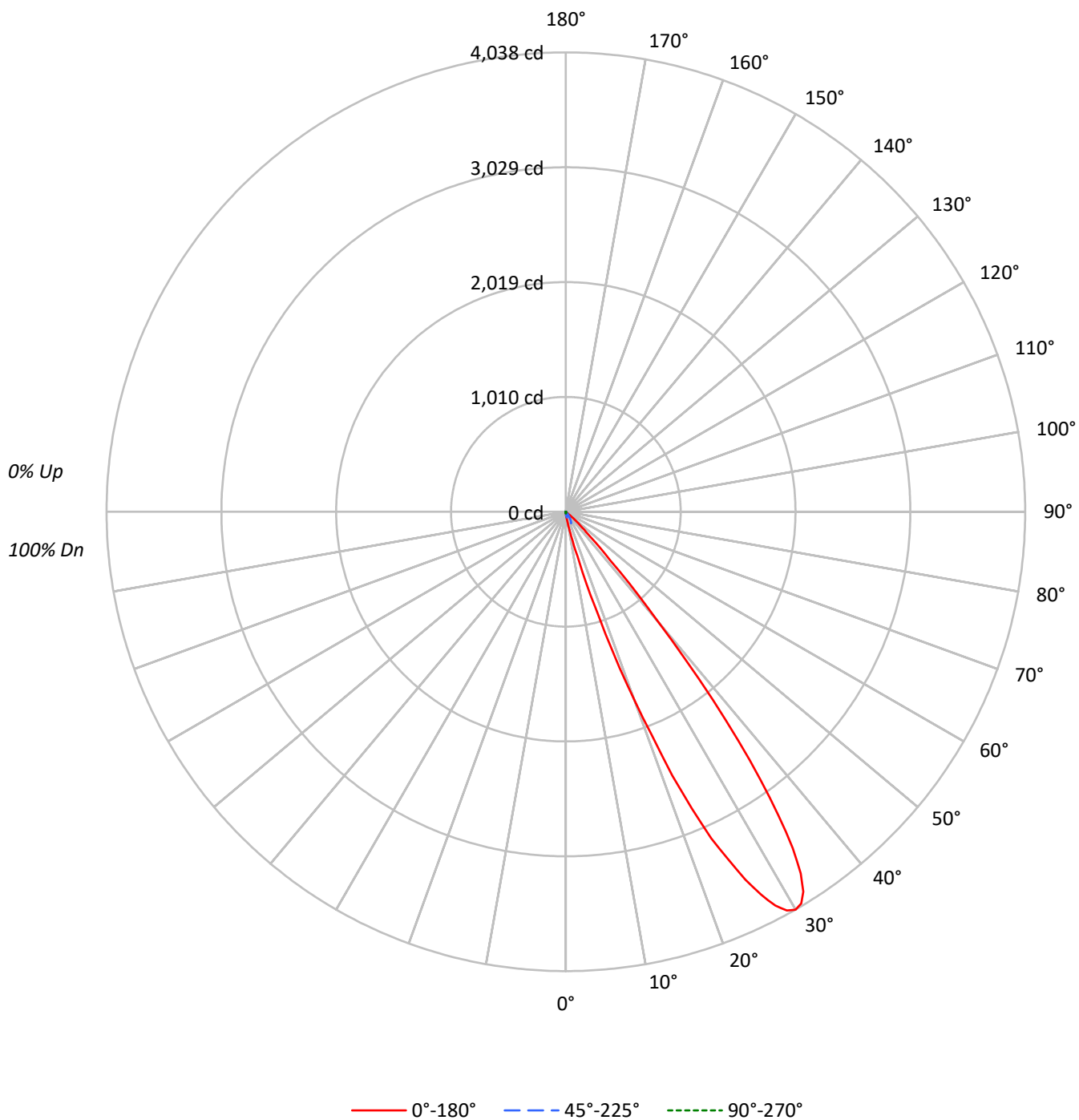
Lumens per Lamp: N/A
Luminaire Lumens: 426.9 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.37 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1313033

CATALOG NUMBER: P3SQAS05R159730DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1313033

CATALOG NUMBER: P3SQAS05R159730DE010 E3SQCA301MMS

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92		
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55		
7	76	65	58	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50		
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45		
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41		
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°	2635	2635	2635	2635	2635
5°	7607	5740	2247	934	622
10°	19796	8552	1486	0	0
15°	79093	14014	802	0	0
20°	323170	20655	238	0	0
25°	638832	20485	0	0	0
30°	802920	16168	0	0	0
35°	685083	9903	0	0	0
40°	282038	3125	0	0	0
45°	61012	1315	0	0	0
50°	7824	0	0	0	0
55°	661	0	120	0	0
60°	0	0	310	0	0
65°	0	0	367	0	0
70°	0	201	655	0	0
75°	0	266	865	0	0
80°	0	397	1289	0	0
85°	0	790	2569	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 63861 cd/sqm

TEST NUMBER: P1313033

CATALOG NUMBER: P3SQAS05R159730DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.5
10°-20°	29.9	7.0
20°-30°	174.4	40.9
30°-40°	187.0	43.8
40°-50°	31.6	7.4
50°-60°	1.0	0.2
60°-70°	0.3	0.1
70°-80°	0.4	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°	206.4	48.3
0°-40°	393.4	92.1
0°-60°	425.9	99.8
0°-90°	426.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	426.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	44	33	13	5	4	6
15°	444	79	4	0	0	205
25°	3362	108	0	0	0	1521
35°	3258	47	0	0	0	1873
45°	250	5	0	0	0	296
55°	2	0	0	0	0	6
65°	0	0	1	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1313033

CATALOG NUMBER: P3SQAS05R159730DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
2.5°	27.8	28.3	28.7	28.7	28.7	28.7	28.3	28.3	28.3	28.3	27.8
5°	44.0	44.0	44.0	44.0	44.0	44.0	43.6	43.6	43.6	43.6	43.6
7.5°	62.9	62.0	62.4	61.1	62.0	61.5	61.1	62.0	62.0	59.7	59.7
10°	113.2	112.7	108.2	109.1	110.0	109.6	109.6	106.9	106.4	104.6	102.8
12.5°	218.2	223.2	226.8	226.8	218.2	221.4	215.5	216.9	217.8	215.1	205.6
15°	443.6	451.7	443.2	451.3	448.1	436.4	423.4	405.9	412.6	400.5	396.5
17.5°	971.7	990.1	982.4	945.2	957.3	928.6	910.6	903.9	885.0	828.9	805.5
20°	1763.3	1785.7	1764.6	1721.1	1735.0	1680.7	1666.7	1653.7	1570.2	1539.7	1441.8
21°	2096.4	2114.9	2122.9	2077.6	2049.7	2006.6	1970.7	1959.0	1908.3	1849.5	1748.9
22°	2498.8	2477.2	2428.7	2435.0	2393.7	2358.2	2308.4	2261.2	2204.7	2122.5	2039.4
23°	2831.9	2806.8	2783.9	2756.0	2711.6	2686.4	2615.1	2563.4	2489.8	2401.8	2321.8
24°	3142.2	3103.6	3089.2	3039.8	3027.2	2970.7	2912.8	2845.4	2756.5	2662.7	2574.2
25°	3361.8	3367.6	3355.0	3349.2	3285.0	3227.1	3169.6	3065.9	2990.0	2906.9	2770.9
26°	3597.0	3599.7	3593.5	3550.4	3492.4	3435.9	3361.8	3271.5	3161.5	3069.5	2946.4
27°	3777.1	3766.3	3757.3	3706.2	3658.6	3587.2	3519.8	3413.0	3305.6	3196.1	3053.3
28°	3920.8	3900.6	3889.4	3845.4	3789.7	3702.1	3619.5	3519.8	3412.5	3294.9	3140.4
29°	4007.4	3985.9	3973.3	3924.8	3860.6	3783.8	3700.3	3590.8	3475.4	3344.3	3188.9
30°	4037.5	4025.0	4005.2	3954.9	3888.5	3808.5	3722.8	3603.8	3483.0	3348.7	3184.4
31°	4017.8	4001.6	3982.8	3928.4	3856.6	3780.2	3680.6	3555.7	3428.7	3300.7	3126.5
32°	3939.2	3929.3	3906.4	3833.7	3775.3	3676.5	3578.2	3461.4	3322.7	3185.3	3027.7
33°	3791.9	3775.8	3756.0	3689.5	3615.0	3520.3	3422.4	3302.9	3165.1	3020.1	2846.7
34°	3567.4	3546.8	3522.1	3477.6	3382.4	3300.3	3187.1	3047.5	2933.4	2794.2	2637.5
35°	3258.5	3228.4	3198.8	3165.1	3058.2	2982.3	2906.0	2784.3	2674.3	2543.2	2365.9
36°	2911.9	2900.2	2875.9	2787.0	2752.5	2649.2	2587.7	2448.0	2359.1	2230.7	2084.3
37°	2519.9	2451.2	2486.2	2436.3	2332.2	2299.8	2226.7	2106.8	2010.7	1875.1	1769.1
38°	2099.6	2054.7	2079.4	2029.1	1974.8	1900.2	1844.5	1757.0	1649.2	1542.8	1442.2
39°	1664.0	1627.7	1654.6	1620.5	1537.9	1506.9	1457.5	1390.6	1303.9	1220.9	1125.7
40°	1254.5	1207.8	1243.8	1195.3	1157.6	1106.8	1081.7	1020.2	966.3	916.4	855.8
42.5°	572.9	568.0	559.9	542.4	538.4	538.8	507.8	487.6	460.2	428.4	409.1
45°	250.5	256.8	262.2	252.3	251.9	246.5	244.7	231.2	225.9	215.5	203.0
47.5°	123.5	125.7	124.4	127.1	124.8	121.2	120.3	118.5	113.2	112.7	106.9
50°	29.2	28.7	28.7	29.2	28.7	28.7	28.3	27.4	26.9	27.4	26.0
52.5°	9.4	9.9	9.4	9.0	9.4	9.9	9.4	9.4	9.4	9.4	9.4
55°	2.2	2.2	2.2	2.2	2.2	2.2	1.8	1.8	2.2	2.2	2.2
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1313033

CATALOG NUMBER: P3SQAS05R159730DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
2.5°	27.4	23.3	19.3	15.3	11.2	9.0	8.5	8.1
5°	41.3	33.2	22.0	13.0	7.6	5.4	4.0	3.6
7.5°	55.7	41.3	24.2	10.8	5.4	2.2	0.9	0.4
10°	79.9	48.9	25.1	8.5	2.7	0.0	0.0	0.0
12.5°	156.7	56.1	24.7	6.7	0.4	0.0	0.0	0.0
15°	260.4	78.6	22.9	4.5	0.0	0.0	0.0	0.0
17.5°	426.6	101.5	19.8	3.1	0.0	0.0	0.0	0.0
20°	661.4	112.7	15.3	1.3	0.0	0.0	0.0	0.0
21°	775.4	113.6	13.5	0.9	0.0	0.0	0.0	0.0
22°	874.2	113.6	11.7	0.4	0.0	0.0	0.0	0.0
23°	965.8	112.3	10.3	0.0	0.0	0.0	0.0	0.0
24°	1041.3	110.5	9.4	0.0	0.0	0.0	0.0	0.0
25°	1097.8	107.8	8.5	0.0	0.0	0.0	0.0	0.0
26°	1123.9	104.2	7.2	0.0	0.0	0.0	0.0	0.0
27°	1136.9	99.2	6.3	0.0	0.0	0.0	0.0	0.0
28°	1127.9	93.8	5.4	0.0	0.0	0.0	0.0	0.0
29°	1105.5	88.0	4.0	0.0	0.0	0.0	0.0	0.0
30°	1076.3	81.3	3.1	0.0	0.0	0.0	0.0	0.0
31°	1033.6	74.5	2.2	0.0	0.0	0.0	0.0	0.0
32°	975.3	67.8	1.8	0.0	0.0	0.0	0.0	0.0
33°	897.1	60.6	0.9	0.0	0.0	0.0	0.0	0.0
34°	800.6	53.4	0.4	0.0	0.0	0.0	0.0	0.0
35°	692.4	47.1	0.0	0.0	0.0	0.0	0.0	0.0
36°	599.4	40.4	0.0	0.0	0.0	0.0	0.0	0.0
37°	506.0	32.3	0.0	0.0	0.0	0.0	0.0	0.0
38°	423.9	25.6	0.0	0.0	0.0	0.0	0.0	0.0
39°	350.7	20.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	290.5	13.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	160.7	9.4	0.0	0.0	0.0	0.0	0.0	0.0
45°	97.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	56.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
50°	21.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1.8	0.0	0.0	0.4	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.4	0.9	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.4	0.9	0.4	0.0	0.0	0.0
65°	0.0	0.0	0.9	0.9	0.4	0.0	0.0	0.0
67.5°	0.0	0.0	0.9	1.3	0.4	0.0	0.0	0.0
70°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0
72.5°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0
75°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0
77.5°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0
80°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0
85°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0
87.5°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)