

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: P1306511

Luminaire Tested: P3SQAS05R159027DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306511
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: P3SQAS05R159027DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

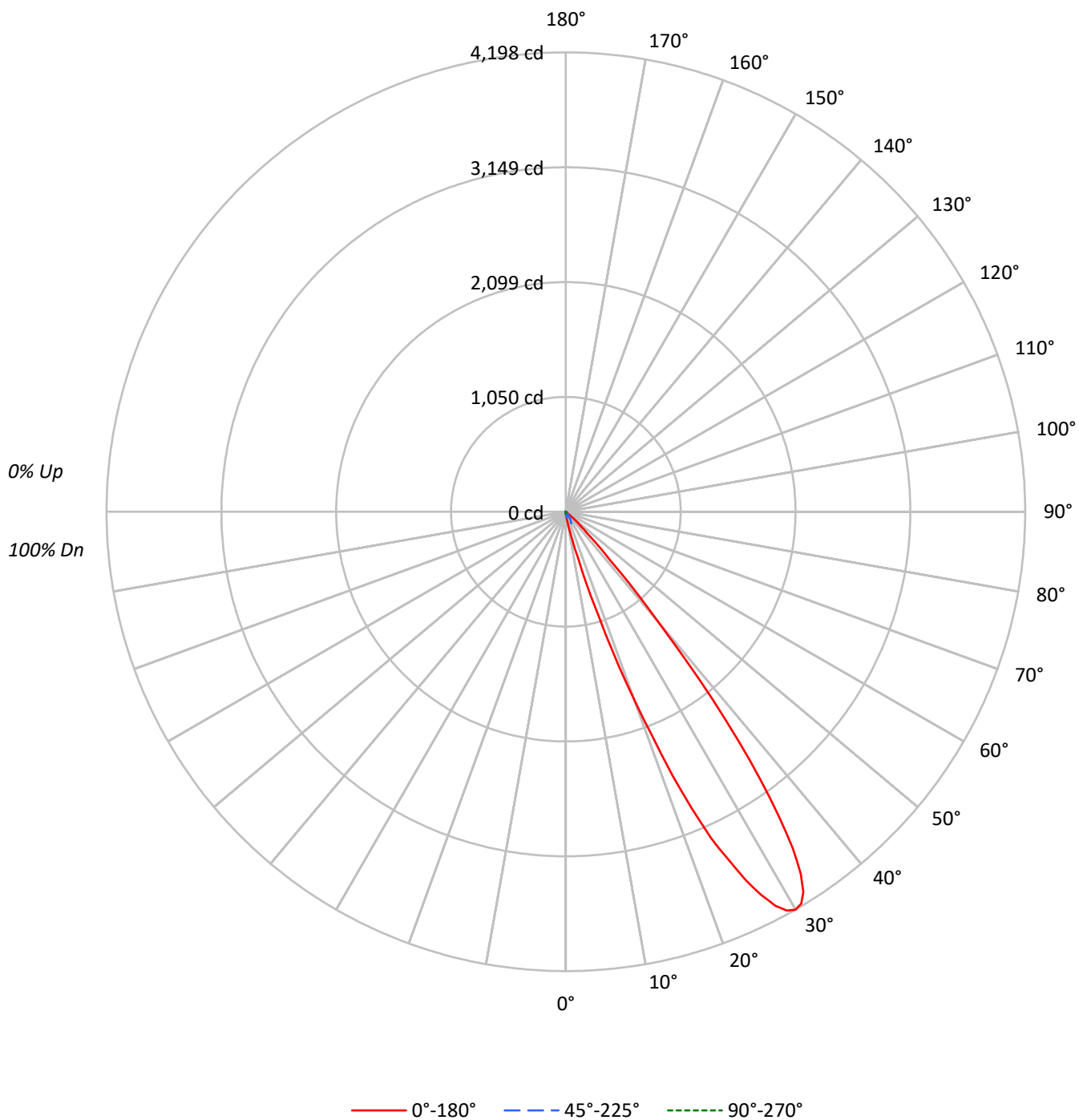
Lumens per Lamp: N/A
Luminaire Lumens: 444.0 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1306511

CATALOG NUMBER: P3SQAS05R159027DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1306511

CATALOG NUMBER: P3SQAS05R159027DE010 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	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	57	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°	2738	2738	2738	2738	2738
5°	7918	5964	2334	968	640
10°	20583	8901	1556	0	0
15°	82249	14567	838	0	0
20°	336036	21480	257	0	0
25°	664257	21302	0	0	0
30°	834897	16804	0	0	0
35°	712352	10302	0	0	0
40°	293279	3260	0	0	0
45°	63447	1364	0	0	0
50°	8118	0	0	0	0
55°	691	0	150	0	0
60°	0	0	310	0	0
65°	0	0	367	0	0
70°	0	252	705	0	0
75°	0	333	932	0	0
80°	0	496	1389	0	0
85°	0	988	2766	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 66419 cd/sqm

TEST NUMBER: P1306511

CATALOG NUMBER: P3SQAS05R159027DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.5
10°-20°	31.1	7.0
20°-30°	181.4	40.8
30°-40°	194.5	43.8
40°-50°	32.8	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°	214.6	48.3
0°-40°	409.1	92.1
0°-60°	442.9	99.7
0°-90°	444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	444.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	46	34	14	6	4	6
15°	461	82	5	0	0	213
25°	3496	112	0	0	0	1582
35°	3388	49	0	0	0	1947
45°	260	6	0	0	0	308
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: P1306511

CATALOG NUMBER: P3SQAS05R159027DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
2.5°	28.9	29.4	29.9	29.9	29.9	29.9	29.4	29.4	29.4	29.4	28.9
5°	45.8	45.8	45.8	45.8	45.8	45.8	45.3	45.3	45.3	45.3	45.3
7.5°	65.4	64.4	64.9	63.5	64.4	64.0	63.5	64.4	64.4	62.1	62.1
10°	117.7	117.2	112.5	113.5	114.4	113.9	113.9	111.1	110.7	108.8	106.9
12.5°	226.9	232.0	235.8	235.8	226.9	230.2	224.1	225.5	226.4	223.6	213.8
15°	461.3	469.7	460.8	469.2	466.0	453.8	440.3	422.1	429.1	416.5	412.3
17.5°	1010.4	1029.5	1021.6	982.8	995.4	965.5	946.9	939.8	920.2	861.9	837.6
20°	1833.5	1856.8	1834.9	1789.6	1804.1	1747.6	1733.1	1719.6	1632.7	1601.0	1499.2
21°	2179.9	2199.1	2207.5	2160.3	2131.4	2086.5	2049.2	2037.0	1984.3	1923.1	1818.5
22°	2598.2	2575.8	2525.4	2531.9	2489.0	2452.1	2400.3	2351.3	2292.4	2207.0	2120.6
23°	2944.7	2918.5	2894.7	2865.8	2819.5	2793.4	2719.2	2665.5	2588.9	2497.4	2414.3
24°	3267.3	3227.1	3212.2	3160.8	3147.8	3088.9	3028.7	2958.7	2866.2	2768.7	2676.7
25°	3495.6	3501.7	3488.6	3482.5	3415.8	3355.5	3295.8	3187.9	3109.0	3022.6	2881.2
26°	3740.3	3743.1	3736.5	3691.7	3631.5	3572.6	3495.6	3401.8	3287.4	3191.7	3063.7
27°	3927.5	3916.3	3906.9	3853.7	3804.2	3730.0	3660.0	3548.8	3437.2	3323.3	3174.9
28°	4076.9	4055.9	4044.2	3998.4	3940.6	3849.5	3763.6	3660.0	3548.4	3426.0	3265.4
29°	4167.0	4144.6	4131.5	4081.1	4014.3	3934.5	3847.6	3733.7	3613.7	3477.4	3315.9
30°	4198.3	4185.2	4164.7	4112.4	4043.3	3960.2	3871.0	3747.3	3621.7	3482.1	3311.2
31°	4177.7	4160.9	4141.3	4084.8	4010.1	3930.7	3827.1	3697.3	3565.2	3432.1	3251.0
32°	4096.0	4085.8	4061.9	3986.3	3925.6	3822.9	3720.6	3599.3	3455.0	3312.1	3148.2
33°	3942.9	3926.1	3905.5	3836.4	3758.9	3660.4	3558.6	3434.4	3291.1	3140.3	2960.1
34°	3709.4	3688.0	3662.3	3616.1	3517.1	3431.6	3314.0	3168.8	3050.2	2905.5	2742.5
35°	3388.2	3356.9	3326.1	3291.1	3180.0	3101.1	3021.7	2895.2	2780.8	2644.5	2460.0
36°	3027.8	3015.6	2990.4	2898.0	2862.0	2754.7	2690.7	2545.5	2453.0	2319.5	2167.3
37°	2620.2	2548.8	2585.2	2533.3	2425.0	2391.4	2315.3	2190.6	2090.7	1949.7	1839.5
38°	2183.2	2136.5	2162.2	2109.9	2053.4	1975.9	1918.0	1826.9	1714.9	1604.2	1499.7
39°	1730.3	1692.5	1720.5	1685.0	1599.1	1566.9	1515.5	1446.0	1355.8	1269.5	1170.5
40°	1304.5	1255.9	1293.3	1242.9	1203.6	1150.9	1124.7	1060.8	1004.7	952.9	889.9
42.5°	595.8	590.6	582.2	564.0	559.8	560.3	528.1	507.0	478.6	445.4	425.3
45°	260.5	267.1	272.7	262.4	261.9	256.3	254.5	240.4	234.8	224.1	211.0
47.5°	128.4	130.7	129.3	132.1	129.8	126.1	125.1	123.3	117.7	117.2	111.1
50°	30.3	29.9	29.9	30.3	29.9	29.9	29.4	28.5	28.0	28.5	27.1
52.5°	9.8	10.3	9.8	9.3	9.8	10.3	9.8	9.8	9.8	9.8	9.8
55°	2.3	2.3	2.3	2.3	2.3	2.3	1.9	1.9	2.3	2.3	2.3
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: P1306511

CATALOG NUMBER: P3SQAS05R159027DE010 E3SQCA301MB

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

TEST NUMBER: P1306511

CATALOG NUMBER: P3SQAS05R159027DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
2.5°	28.5	24.3	20.1	15.9	11.7	9.3	8.9	8.4
5°	43.0	34.5	22.9	13.5	7.9	5.6	4.2	3.7
7.5°	57.9	43.0	25.2	11.2	5.6	2.3	0.9	0.5
10°	83.1	50.9	26.1	8.9	2.8	0.0	0.0	0.0
12.5°	162.9	58.4	25.7	7.0	0.5	0.0	0.0	0.0
15°	270.8	81.7	23.8	4.7	0.0	0.0	0.0	0.0
17.5°	443.5	105.5	20.5	3.3	0.0	0.0	0.0	0.0
20°	687.7	117.2	15.9	1.4	0.0	0.0	0.0	0.0
21°	806.3	118.1	14.0	0.9	0.0	0.0	0.0	0.0
22°	909.0	118.1	12.1	0.5	0.0	0.0	0.0	0.0
23°	1004.3	116.7	10.7	0.0	0.0	0.0	0.0	0.0
24°	1082.7	114.9	9.8	0.0	0.0	0.0	0.0	0.0
25°	1141.5	112.1	8.9	0.0	0.0	0.0	0.0	0.0
26°	1168.6	108.3	7.5	0.0	0.0	0.0	0.0	0.0
27°	1182.2	103.2	6.5	0.0	0.0	0.0	0.0	0.0
28°	1172.8	97.6	5.6	0.0	0.0	0.0	0.0	0.0
29°	1149.5	91.5	4.2	0.0	0.0	0.0	0.0	0.0
30°	1119.1	84.5	3.3	0.0	0.0	0.0	0.0	0.0
31°	1074.8	77.5	2.3	0.0	0.0	0.0	0.0	0.0
32°	1014.1	70.5	1.9	0.0	0.0	0.0	0.0	0.0
33°	932.8	63.0	0.9	0.0	0.0	0.0	0.0	0.0
34°	832.5	55.6	0.5	0.0	0.0	0.0	0.0	0.0
35°	719.9	49.0	0.0	0.0	0.0	0.0	0.0	0.0
36°	623.3	42.0	0.0	0.0	0.0	0.0	0.0	0.0
37°	526.2	33.6	0.0	0.0	0.0	0.0	0.0	0.0
38°	440.7	26.6	0.0	0.0	0.0	0.0	0.0	0.0
39°	364.6	21.5	0.0	0.0	0.0	0.0	0.0	0.0
40°	302.1	14.5	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	167.1	9.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	101.3	5.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	58.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	22.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1.9	0.0	0.0	0.5	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.5	0.9	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.5	0.9	0.5	0.0	0.0	0.0
65°	0.0	0.0	0.9	0.9	0.5	0.0	0.0	0.0
67.5°	0.0	0.0	0.9	1.4	0.5	0.0	0.0	0.0
70°	0.0	0.5	0.9	1.4	0.5	0.0	0.0	0.0
72.5°	0.0	0.5	0.9	1.4	0.5	0.0	0.0	0.0
75°	0.0	0.5	0.9	1.4	0.5	0.0	0.0	0.0
77.5°	0.0	0.5	0.9	1.4	0.5	0.0	0.0	0.0
80°	0.0	0.5	0.9	1.4	0.5	0.0	0.0	0.0



TEST NUMBER: P1306511

CATALOG NUMBER: P3SQAS05R159027DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.5	0.9	1.4	0.5	0.0	0.0	0.0
85°	0.0	0.5	0.9	1.4	0.5	0.0	0.0	0.0
87.5°	0.0	0.5	0.9	1.4	0.5	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)