

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: P1312233

Luminaire Tested: P3SQAS09R209727DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R209727DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

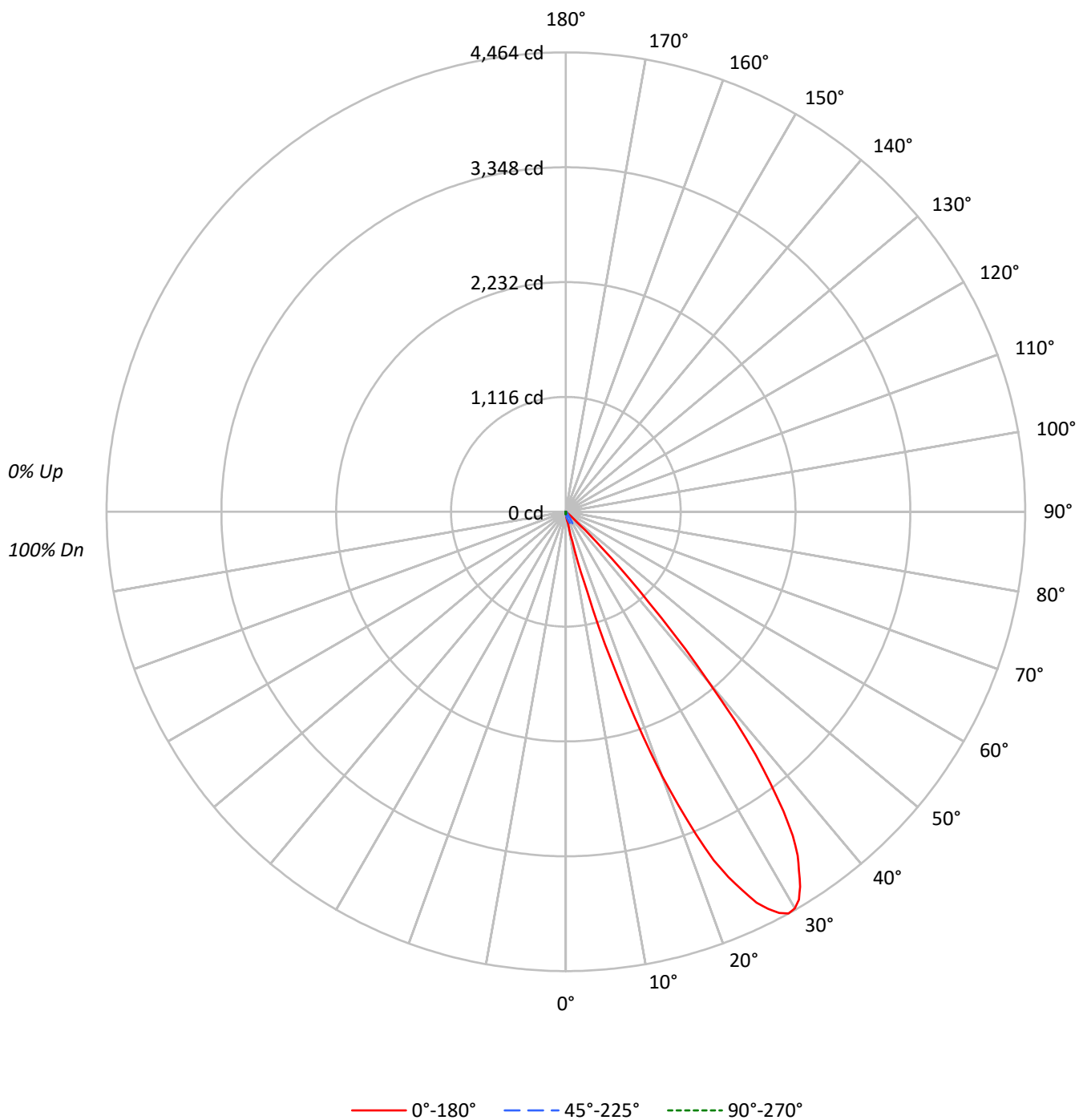
Lumens per Lamp: N/A
Luminaire Lumens: 616.0 lumens
Efficiency: N/A
Efficacy: 55.5 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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: P1312233

CATALOG NUMBER: P3SQAS09R209727DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1312233

CATALOG NUMBER: P3SQAS09R209727DE010 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	93	92		
2	106	100	96	92	104	98	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	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3806	3806	3806	3806	3806
5°	8264	5826	3492	1591	1158
10°	20566	10283	2466	315	0
15°	144724	14086	1426	0	0
20°	500214	23698	568	0	0
25°	771033	30271	228	0	0
30°	884992	23387	0	0	0
35°	808245	8893	0	0	0
40°	484534	4137	0	0	0
45°	119076	1948	0	0	0
50°	13129	482	0	0	0
55°	1832	0	180	0	0
60°	0	0	413	0	0
65°	0	0	489	0	0
70°	0	302	906	0	0
75°	0	399	1198	0	0
80°	0	595	1785	0	0
85°	0	1186	3557	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 126992 cd/sqm

TEST NUMBER: P1312233

CATALOG NUMBER: P3SQAS09R209727DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.4
10°-20°	48.1	7.8
20°-30°	243.3	39.5
30°-40°	263.3	42.7
40°-50°	55.6	9.0
50°-60°	1.7	0.3
60°-70°	0.4	0.1
70°-80°	0.6	0.1
80°-90°	0.5	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°	294.0	47.7
0°-40°	557.2	90.5
0°-60°	614.5	99.8
0°-90°	616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	616.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	48	34	20	9	7	7
15°	812	79	8	0	0	338
25°	4058	159	1	0	0	1834
35°	3844	42	0	0	0	2267
45°	489	8	0	0	0	538
55°	6	0	1	0	0	11
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1312233

CATALOG NUMBER: P3SQAS09R209727DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
2.5°	30.0	29.4	30.0	29.4	30.0	30.0	30.0	29.4	29.4	29.4	29.4
5°	47.8	47.8	47.2	47.8	47.8	47.8	47.8	47.2	47.2	46.6	46.6
7.5°	75.4	75.4	74.7	74.7	75.4	76.0	73.5	74.7	74.7	74.7	74.1
10°	117.6	120.1	117.6	120.7	118.2	116.4	119.5	116.4	116.4	115.8	113.9
12.5°	296.5	289.8	285.5	275.1	285.5	277.5	279.4	277.5	271.4	263.4	258.5
15°	811.7	811.7	787.8	819.7	796.4	805.0	760.9	761.5	738.8	714.3	700.9
17.5°	1697.0	1712.3	1696.4	1686.6	1665.8	1635.7	1623.5	1592.2	1551.2	1503.4	1497.9
20°	2729.3	2665.0	2695.0	2667.4	2650.3	2613.5	2572.4	2546.7	2510.6	2449.9	2360.5
21°	3054.0	3051.5	3050.9	3050.3	3025.2	2965.1	2927.8	2876.3	2825.5	2763.0	2688.2
22°	3381.1	3392.8	3397.7	3362.1	3310.7	3283.7	3258.0	3187.5	3107.3	3074.8	2986.0
23°	3681.3	3670.3	3638.4	3621.9	3582.1	3574.1	3497.5	3452.8	3374.4	3338.9	3233.5
24°	3885.9	3880.4	3865.7	3841.2	3809.4	3760.3	3714.4	3643.9	3579.6	3521.4	3423.4
25°	4057.5	4062.4	4035.4	4018.9	3984.6	3929.4	3873.1	3795.9	3735.8	3667.8	3554.5
26°	4227.2	4192.9	4171.4	4146.9	4109.5	4046.4	3991.9	3922.7	3849.8	3773.8	3662.9
27°	4331.9	4301.3	4268.8	4244.9	4202.1	4142.0	4083.8	4007.2	3925.8	3849.2	3735.2
28°	4414.6	4380.9	4349.1	4320.3	4271.3	4207.0	4137.1	4059.3	3974.8	3895.7	3779.3
29°	4463.6	4423.8	4389.5	4357.1	4312.3	4242.5	4172.0	4088.7	4007.2	3924.5	3805.7
30°	4450.2	4415.9	4382.8	4349.7	4304.4	4238.8	4169.0	4089.3	4007.2	3925.8	3805.1
31°	4397.5	4355.2	4331.3	4298.2	4259.0	4192.3	4132.2	4045.2	3971.1	3882.9	3762.2
32°	4296.4	4269.4	4237.6	4211.9	4173.9	4102.8	4044.0	3972.9	3885.3	3813.0	3686.2
33°	4159.2	4134.1	4118.1	4088.1	4051.3	4002.3	3931.9	3866.9	3768.3	3694.2	3567.4
34°	4028.1	3996.2	3956.4	3947.8	3916.0	3852.9	3789.1	3723.0	3634.8	3540.4	3412.4
35°	3844.3	3811.2	3774.4	3777.5	3739.5	3666.0	3601.1	3526.9	3443.0	3332.1	3210.8
36°	3598.6	3576.6	3571.0	3556.3	3512.8	3425.2	3363.4	3270.2	3199.8	3064.4	2960.2
37°	3299.0	3307.0	3267.2	3248.2	3197.3	3136.1	3101.2	2981.7	2899.6	2797.9	2657.0
38°	2996.4	2984.8	2937.6	2949.2	2879.4	2815.7	2717.0	2646.0	2554.1	2459.7	2347.0
39°	2618.4	2589.6	2533.2	2535.7	2483.0	2411.3	2315.8	2231.8	2176.7	2086.0	1978.2
40°	2155.2	2143.0	2123.4	2090.9	2021.7	1990.4	1905.3	1814.6	1768.1	1642.5	1589.8
42.5°	1195.9	1179.3	1146.2	1134.6	1097.8	1061.1	1011.5	950.8	921.4	884.0	800.7
45°	488.9	521.4	513.4	504.2	476.0	477.9	442.3	446.6	414.1	392.1	376.8
47.5°	107.8	117.0	117.6	113.3	117.6	113.9	112.1	109.0	109.7	111.5	107.2
50°	49.0	48.4	49.6	49.0	48.4	47.8	47.2	45.3	46.6	45.3	44.1
52.5°	19.0	19.6	19.6	18.4	19.0	19.0	19.0	18.4	18.4	18.4	18.4
55°	6.1	6.1	6.1	5.5	5.5	6.1	6.1	6.1	6.1	6.1	5.5
57.5°	0.6	1.2	0.6	1.2	0.6	0.6	0.6	0.6	0.6	1.2	1.2
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: P1312233

CATALOG NUMBER: P3SQAS09R209727DE010 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: P1312233

CATALOG NUMBER: P3SQAS09R209727DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
2.5°	28.2	25.7	23.9	22.1	18.4	15.3	14.1	14.1
5°	43.5	33.7	25.1	20.2	14.1	9.2	7.4	6.7
7.5°	65.6	45.3	26.3	17.2	9.2	4.9	3.1	2.5
10°	95.0	58.8	27.6	14.1	5.5	1.8	0.0	0.0
12.5°	166.0	70.5	27.6	11.0	2.5	0.0	0.0	0.0
15°	380.4	79.0	26.3	8.0	0.6	0.0	0.0	0.0
17.5°	790.3	99.2	23.3	5.5	0.0	0.0	0.0	0.0
20°	1262.0	129.3	18.4	3.1	0.0	0.0	0.0	0.0
21°	1456.2	139.7	16.5	2.5	0.0	0.0	0.0	0.0
22°	1595.9	149.5	14.7	1.8	0.0	0.0	0.0	0.0
23°	1749.7	155.6	12.9	1.2	0.0	0.0	0.0	0.0
24°	1863.0	159.3	11.0	1.2	0.0	0.0	0.0	0.0
25°	1933.5	159.3	9.8	1.2	0.0	0.0	0.0	0.0
26°	1975.1	155.6	8.6	0.6	0.0	0.0	0.0	0.0
27°	1984.9	149.5	7.4	0.6	0.0	0.0	0.0	0.0
28°	1972.7	141.5	6.1	0.0	0.0	0.0	0.0	0.0
29°	1934.1	129.9	5.5	0.0	0.0	0.0	0.0	0.0
30°	1892.4	117.6	4.3	0.0	0.0	0.0	0.0	0.0
31°	1821.4	101.1	3.7	0.0	0.0	0.0	0.0	0.0
32°	1739.3	83.9	3.1	0.0	0.0	0.0	0.0	0.0
33°	1629.6	66.2	2.5	0.0	0.0	0.0	0.0	0.0
34°	1467.9	52.1	2.5	0.0	0.0	0.0	0.0	0.0
35°	1322.7	42.3	1.8	0.0	0.0	0.0	0.0	0.0
36°	1132.8	33.7	1.8	0.0	0.0	0.0	0.0	0.0
37°	970.4	28.2	1.8	0.0	0.0	0.0	0.0	0.0
38°	812.4	23.9	1.2	0.0	0.0	0.0	0.0	0.0
39°	659.2	20.8	1.2	0.0	0.0	0.0	0.0	0.0
40°	525.6	18.4	1.2	0.0	0.0	0.0	0.0	0.0
42.5°	283.6	12.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	156.8	8.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	69.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	23.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5.5	0.0	0.0	0.6	0.0	0.0	0.0	0.0
57.5°	1.2	0.0	0.0	0.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.6	1.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.6	1.2	0.6	0.0	0.0	0.0
65°	0.0	0.0	1.2	1.2	0.6	0.0	0.0	0.0
67.5°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
70°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
72.5°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
75°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
77.5°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
80°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0



TEST NUMBER: P1312233

CATALOG NUMBER: P3SQAS09R209727DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
85°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
87.5°	0.0	0.6	1.2	1.8	0.6	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)