

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: P1307187

Luminaire Tested: P3SQAS20R309027D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-50)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R309027D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

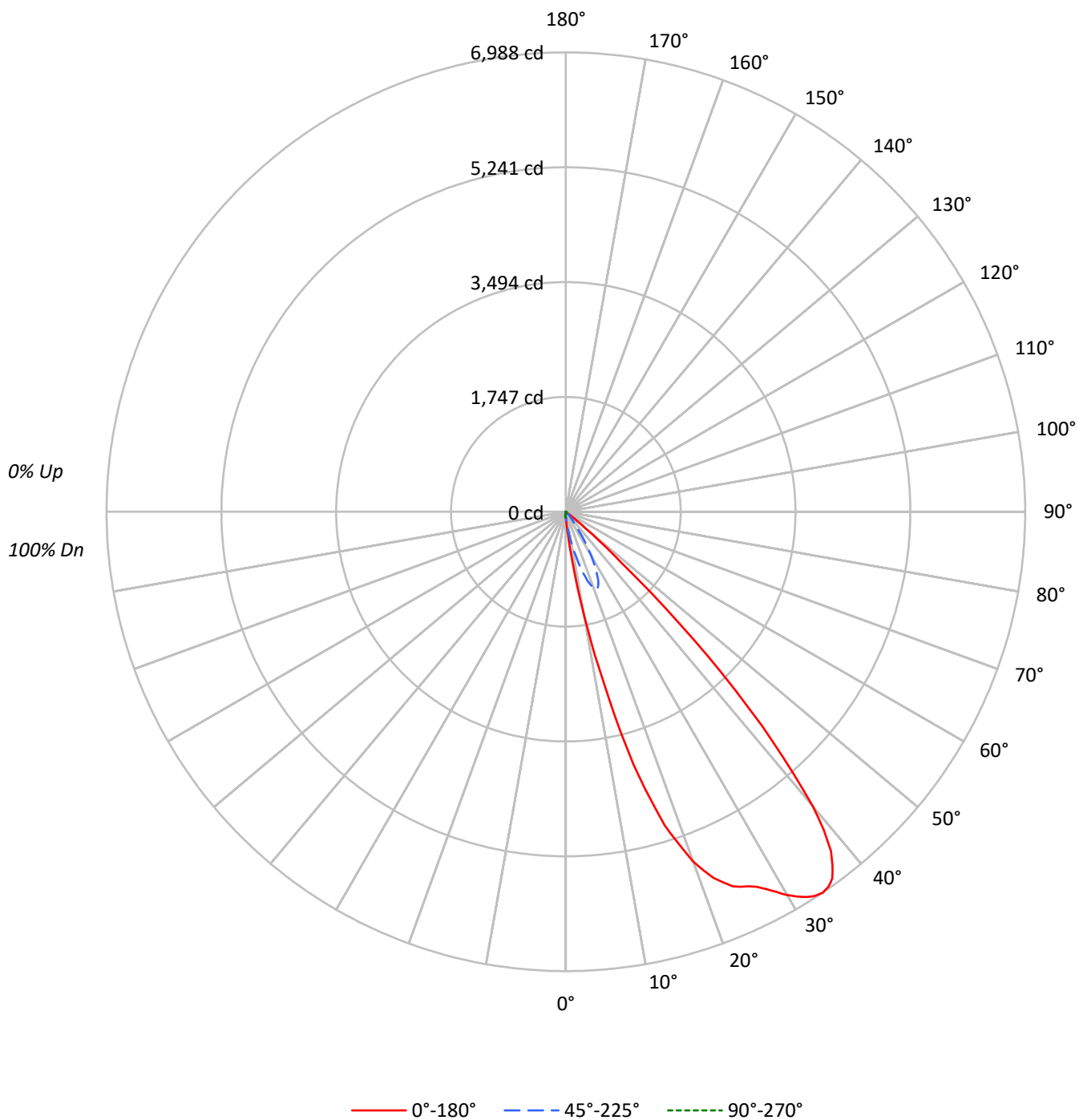
Lumens per Lamp: N/A
Luminaire Lumens: 1682.0 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.21
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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: P1307187

CATALOG NUMBER: P3SQAS20R309027D010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1307187

CATALOG NUMBER: P3SQAS20R309027D010 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	78	73	91	83	77	72	81	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15500	15500	15500	15500	15500
5°	56221	34922	14193	5722	4097
10°	278251	83645	11035	1102	0
15°	709786	159291	7043	0	0
20°	1037119	226510	2896	0	0
25°	1196503	222255	608	0	0
30°	1339101	152550	0	0	0
35°	1464525	65702	0	0	0
40°	1314437	25540	0	0	0
45°	671250	10376	0	0	0
50°	103609	1259	0	0	0
55°	6155	0	480	0	0
60°	0	0	551	0	0
65°	0	0	1304	0	0
70°	0	806	1611	0	0
75°	0	1065	3127	0	0
80°	0	1587	4661	0	0
85°	0	3162	9287	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 671250 cd/sqm

TEST NUMBER: P1307187

CATALOG NUMBER: P3SQAS20R309027D010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.8	1.1
10°-20°	224.1	13.3
20°-30°	553.8	32.9
30°-40°	636.9	37.9
40°-50°	236.3	14.0
50°-60°	8.6	0.5
60°-70°	0.8	0.0
70°-80°	1.4	0.1
80°-90°	1.3	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°	796.7	47.4
0°-40°	1433.6	85.2
0°-60°	1678.5	99.8
0°-90°	1682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1682.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	90	90	90	90	90	
5°	325	202	82	33	24	71
15°	3981	893	40	0	0	1145
25°	6296	1170	3	0	0	2909
35°	6966	312	0	0	0	4223
45°	2756	43	0	0	0	2146
55°	20	0	2	0	0	70
65°	0	0	3	0	0	0
75°	0	2	5	0	0	0
85°	0	2	5	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1307187

CATALOG NUMBER: P3SQAS20R309027D010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
2.5°	159.4	161.0	161.0	156.3	154.7	153.1	148.4	134.2	112.1	90.0	72.6
5°	325.2	326.7	326.7	317.3	298.3	279.4	263.6	202.0	129.4	82.1	53.7
7.5°	767.1	768.7	735.6	697.7	621.9	582.5	509.8	311.0	146.8	74.2	34.7
10°	1591.1	1556.4	1469.6	1359.1	1242.3	1090.7	937.6	478.3	159.4	63.1	22.1
12.5°	2659.7	2626.6	2514.5	2356.6	2127.8	1831.0	1540.6	672.4	161.0	50.5	12.6
15°	3980.9	3887.8	3753.6	3491.6	3153.8	2694.4	2214.6	893.4	154.7	39.5	3.2
17.5°	5005.3	4920.1	4749.6	4443.4	4023.5	3513.7	2924.9	1103.3	137.3	25.3	0.0
20°	5658.8	5568.8	5409.4	5139.5	4692.8	4094.5	3420.5	1235.9	113.6	15.8	0.0
21°	5845.1	5758.2	5602.0	5333.6	4888.5	4291.8	3542.1	1264.4	102.6	12.6	0.0
22°	6009.2	5941.3	5796.1	5504.1	5051.1	4437.1	3665.2	1267.5	94.7	9.5	0.0
23°	6124.4	6075.5	5930.3	5662.0	5210.5	4555.5	3731.5	1248.6	85.2	6.3	0.0
24°	6234.9	6175.0	6050.3	5800.9	5336.8	4654.9	3791.5	1213.8	75.8	4.7	0.0
25°	6296.5	6227.0	6130.8	5897.1	5441.0	4718.0	3827.8	1169.6	66.3	3.2	0.0
26°	6339.1	6285.4	6179.7	5954.0	5485.2	4759.1	3832.5	1104.9	60.0	1.6	0.0
27°	6403.8	6350.2	6247.6	6004.5	5504.1	4752.8	3804.1	1030.7	52.1	0.0	0.0
28°	6501.7	6430.7	6328.1	6058.1	5512.0	4725.9	3741.0	950.2	44.2	0.0	0.0
29°	6613.8	6541.2	6429.1	6129.2	5513.6	4672.3	3641.5	861.8	39.5	0.0	0.0
30°	6733.7	6670.6	6556.9	6198.6	5530.9	4602.8	3526.3	767.1	31.6	0.0	0.0
31°	6828.4	6771.6	6650.1	6261.8	5545.1	4542.8	3384.2	672.4	26.8	0.0	0.0
32°	6910.5	6860.0	6710.1	6276.0	5516.7	4457.6	3232.7	580.9	22.1	0.0	0.0
33°	6967.3	6904.2	6729.0	6239.7	5434.7	4317.1	3063.8	494.1	17.4	0.0	0.0
34°	6987.9	6912.1	6700.6	6145.0	5268.9	4104.0	2844.4	404.1	14.2	0.0	0.0
35°	6965.8	6872.6	6598.0	5982.4	5044.8	3849.9	2580.8	312.5	11.0	0.0	0.0
36°	6894.7	6776.4	6451.2	5750.3	4724.3	3550.0	2317.2	243.1	7.9	0.0	0.0
37°	6741.6	6610.6	6200.2	5444.1	4407.1	3205.9	2017.3	189.4	4.7	0.0	0.0
38°	6553.8	6364.4	5865.6	5057.4	3996.7	2819.1	1720.5	156.3	3.2	0.0	0.0
39°	6233.4	6025.0	5467.8	4612.3	3594.2	2451.4	1431.7	135.7	1.6	0.0	0.0
40°	5846.6	5598.8	5013.2	4135.6	3119.0	2066.2	1194.9	113.6	1.6	0.0	0.0
42.5°	4410.2	4200.3	3570.5	2812.8	1906.8	1218.6	663.0	74.2	0.0	0.0	0.0
45°	2756.0	2536.6	2110.4	1542.2	1032.3	631.4	318.8	42.6	0.0	0.0	0.0
47.5°	1125.4	1032.3	849.2	653.5	467.2	296.8	132.6	18.9	0.0	0.0	0.0
50°	386.7	344.1	288.9	211.5	150.0	102.6	69.5	4.7	0.0	0.0	0.0
52.5°	112.1	113.6	99.4	85.2	66.3	47.4	34.7	0.0	0.0	0.0	0.0
55°	20.5	17.4	20.5	18.9	20.5	17.4	12.6	0.0	0.0	1.6	0.0
57.5°	0.0	0.0	1.6	1.6	1.6	1.6	1.6	0.0	1.6	1.6	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	1.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	3.2	1.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	3.2	1.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.7	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.7	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.7	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.7	1.6



TEST NUMBER: P1307187

CATALOG NUMBER: P3SQAS20R309027D010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.7	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.7	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.7	1.6
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: P1307187

CATALOG NUMBER: P3SQAS20R309027D010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	90.0	90.0	90.0
2.5°	58.4	52.1	48.9
5°	33.1	25.3	23.7
7.5°	17.4	11.0	9.5
10°	6.3	1.6	0.0
12.5°	0.0	0.0	0.0
15°	0.0	0.0	0.0
17.5°	0.0	0.0	0.0
20°	0.0	0.0	0.0
21°	0.0	0.0	0.0
22°	0.0	0.0	0.0
23°	0.0	0.0	0.0
24°	0.0	0.0	0.0
25°	0.0	0.0	0.0
26°	0.0	0.0	0.0
27°	0.0	0.0	0.0
28°	0.0	0.0	0.0
29°	0.0	0.0	0.0
30°	0.0	0.0	0.0
31°	0.0	0.0	0.0
32°	0.0	0.0	0.0
33°	0.0	0.0	0.0
34°	0.0	0.0	0.0
35°	0.0	0.0	0.0
36°	0.0	0.0	0.0
37°	0.0	0.0	0.0
38°	0.0	0.0	0.0
39°	0.0	0.0	0.0
40°	0.0	0.0	0.0
42.5°	0.0	0.0	0.0
45°	0.0	0.0	0.0
47.5°	0.0	0.0	0.0
50°	0.0	0.0	0.0
52.5°	0.0	0.0	0.0
55°	0.0	0.0	0.0
57.5°	0.0	0.0	0.0
60°	0.0	0.0	0.0
62.5°	0.0	0.0	0.0
65°	0.0	0.0	0.0
67.5°	0.0	0.0	0.0
70°	0.0	0.0	0.0
72.5°	0.0	0.0	0.0
75°	0.0	0.0	0.0
77.5°	0.0	0.0	0.0
80°	0.0	0.0	0.0



TEST NUMBER: P1307187

CATALOG NUMBER: P3SQAS20R309027D010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)