

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: P1312753

Luminaire Tested: P3SQAS20R359727D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-51)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R359727D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

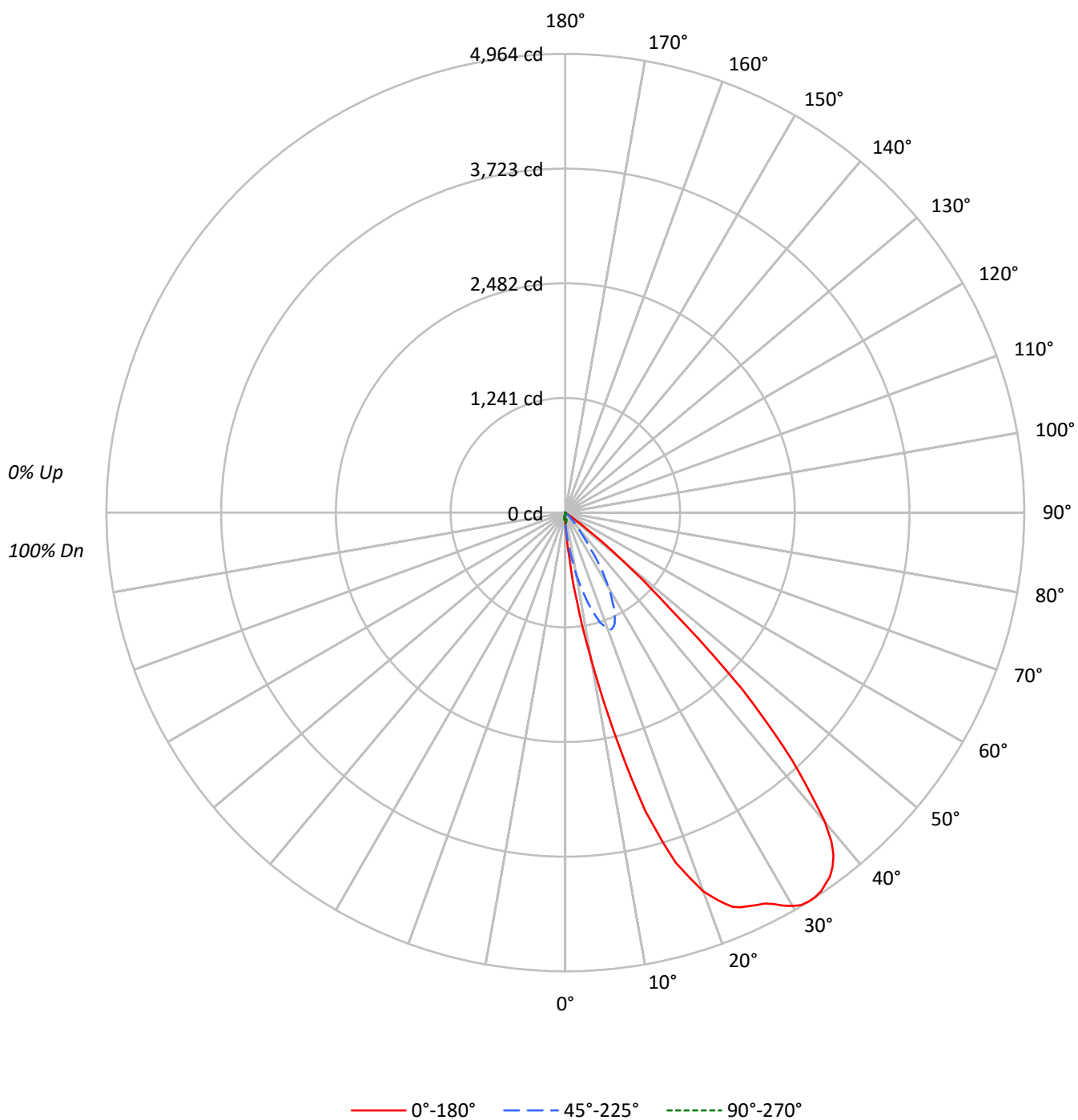
Lumens per Lamp: N/A
Luminaire Lumens: 1483.0 lumens
Efficiency: N/A
Efficacy: 51.5 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.46 / 1.29
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1312753

CATALOG NUMBER: P3SQAS20R359727D010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1312753

CATALOG NUMBER: P3SQAS20R359727D010 E3SQCA301MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
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	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83		
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75		
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67		
5	86	76	70	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19254	19254	19254	19254	19254
5°	83657	51847	17859	6362	4408
10°	281556	117029	13361	1486	490
15°	595818	191956	8327	0	0
20°	798880	245296	3885	0	0
25°	892840	240878	798	0	0
30°	977404	184567	0	0	0
35°	1031567	100539	0	0	0
40°	980623	45166	0	0	0
45°	658147	19996	0	0	0
50°	219864	1902	0	0	0
55°	11890	0	0	0	0
60°	0	0	482	0	0
65°	0	0	1141	0	0
70°	0	705	1410	0	0
75°	0	932	1863	0	0
80°	0	1389	2777	0	0
85°	0	2766	5533	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 658147 cd/sqm

TEST NUMBER: P1312753

CATALOG NUMBER: P3SQAS20R359727D010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.0	1.6
10°-20°	205.8	13.9
20°-30°	451.5	30.4
30°-40°	522.2	35.2
40°-50°	257.8	17.4
50°-60°	19.1	1.3
60°-70°	0.7	0.0
70°-80°	1.1	0.1
80°-90°	1.0	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°	681.3	45.9
0°-40°	1203.5	81.2
0°-60°	1480.3	99.8
0°-90°	1483.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1483.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	112	112	112	112	112	
5°	484	300	103	37	26	83
15°	3342	1077	47	0	0	943
25°	4698	1268	4	0	0	2172
35°	4906	478	0	0	0	3030
45°	2702	82	0	0	0	1983
55°	40	0	0	0	0	162
65°	0	0	3	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1312753

CATALOG NUMBER: P3SQAS20R359727D010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8
2.5°	222.1	227.8	225.0	225.0	223.5	216.5	203.7	199.5	183.9	145.7	113.2
5°	483.9	485.3	481.0	459.8	441.4	424.4	387.6	370.7	299.9	178.3	103.3
7.5°	981.9	960.6	933.8	904.0	839.0	779.5	701.7	619.7	464.0	206.6	92.0
10°	1610.0	1580.3	1557.7	1486.9	1369.5	1247.8	1099.3	964.9	669.2	226.4	76.4
12.5°	2420.7	2403.7	2323.1	2181.6	2007.6	1832.1	1573.2	1359.6	875.7	230.6	62.3
15°	3341.7	3313.4	3190.3	2989.4	2753.2	2477.3	2130.7	1771.3	1076.6	217.9	46.7
17.5°	3971.3	3955.7	3849.6	3638.8	3367.2	3016.3	2606.0	2157.5	1242.2	191.0	32.5
20°	4358.9	4336.3	4237.3	4059.0	3774.6	3408.2	2921.5	2403.7	1338.4	157.0	21.2
21°	4459.4	4436.8	4357.5	4172.2	3900.6	3507.2	3007.8	2463.1	1356.8	141.5	17.0
22°	4554.2	4531.5	4448.1	4284.0	4015.1	3604.9	3075.7	2508.4	1353.9	128.7	12.7
23°	4633.4	4609.4	4527.3	4375.9	4105.7	3691.2	3126.7	2531.0	1335.6	116.0	9.9
24°	4674.4	4660.3	4586.7	4443.8	4179.3	3752.0	3162.0	2539.5	1312.9	103.3	7.1
25°	4698.5	4681.5	4609.4	4477.8	4227.4	3800.1	3184.7	2532.5	1267.6	92.0	4.2
26°	4724.0	4698.5	4616.4	4489.1	4252.8	3822.7	3186.1	2514.1	1219.5	82.1	1.4
27°	4746.6	4722.5	4637.7	4497.6	4257.1	3815.7	3174.8	2478.7	1161.5	72.2	1.4
28°	4796.1	4769.2	4671.6	4516.0	4261.3	3797.3	3139.4	2430.6	1085.1	63.7	0.0
29°	4861.2	4832.9	4721.1	4559.8	4271.2	3777.5	3091.3	2366.9	1018.6	56.6	0.0
30°	4914.9	4889.5	4786.2	4615.0	4296.7	3759.1	3034.7	2280.6	928.1	48.1	0.0
31°	4954.6	4929.1	4834.3	4661.7	4319.3	3742.1	2964.0	2191.5	846.0	42.4	0.0
32°	4964.5	4943.2	4854.1	4681.5	4319.3	3716.6	2898.9	2091.0	765.4	35.4	0.0
33°	4960.2	4939.0	4848.5	4667.4	4281.1	3655.8	2819.7	1970.8	673.4	31.1	0.0
34°	4944.7	4919.2	4823.0	4622.1	4206.1	3552.5	2705.1	1850.5	577.2	25.5	0.0
35°	4906.5	4883.8	4779.1	4537.2	4090.1	3395.5	2552.3	1711.9	478.2	21.2	0.0
36°	4869.7	4835.7	4707.0	4432.5	3937.3	3234.2	2369.8	1552.0	393.3	17.0	0.0
37°	4801.8	4753.7	4623.5	4281.1	3720.9	3006.4	2161.8	1376.6	329.6	12.7	0.0
38°	4711.2	4646.1	4480.6	4105.7	3503.0	2792.8	1966.5	1218.1	277.3	8.5	0.0
39°	4571.2	4494.8	4269.8	3865.2	3251.2	2545.2	1743.0	1049.8	236.3	5.7	0.0
40°	4361.8	4289.6	4040.6	3579.4	3000.8	2272.1	1513.8	860.2	200.9	2.8	0.0
42.5°	3631.7	3532.7	3244.1	2785.7	2218.4	1634.1	1001.7	478.2	133.0	0.0	0.0
45°	2702.2	2614.5	2331.6	1914.2	1478.4	1000.3	536.2	281.5	82.1	0.0	0.0
47.5°	1526.5	1516.6	1332.7	1099.3	824.8	532.0	271.6	169.8	35.4	0.0	0.0
50°	820.6	769.6	663.5	503.7	343.8	232.0	147.1	93.4	7.1	0.0	0.0
52.5°	299.9	290.0	243.3	202.3	155.6	106.1	75.0	41.0	0.0	0.0	0.0
55°	39.6	36.8	38.2	41.0	42.4	36.8	24.1	8.5	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.4	2.8	2.8	2.8	0.0	0.0	0.0	1.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8



TEST NUMBER: P1312753

CATALOG NUMBER: P3SQAS20R359727D010 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	0.0	1.4	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
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: P1312753

CATALOG NUMBER: P3SQAS20R359727D010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	111.8	111.8	111.8	111.8
2.5°	86.3	66.5	56.6	55.2
5°	59.4	36.8	26.9	25.5
7.5°	41.0	18.4	12.7	11.3
10°	24.1	8.5	4.2	2.8
12.5°	14.1	1.4	0.0	0.0
15°	4.2	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	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°	1.4	0.0	0.0	0.0
67.5°	1.4	0.0	0.0	0.0
70°	1.4	0.0	0.0	0.0
72.5°	1.4	0.0	0.0	0.0
75°	1.4	0.0	0.0	0.0
77.5°	1.4	0.0	0.0	0.0
80°	1.4	0.0	0.0	0.0



TEST NUMBER: P1312753

CATALOG NUMBER: P3SQAS20R359727D010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.4	0.0	0.0	0.0
85°	1.4	0.0	0.0	0.0
87.5°	1.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)