

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: P1308326

Luminaire Tested: P3SQAS20R359030D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R359030D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

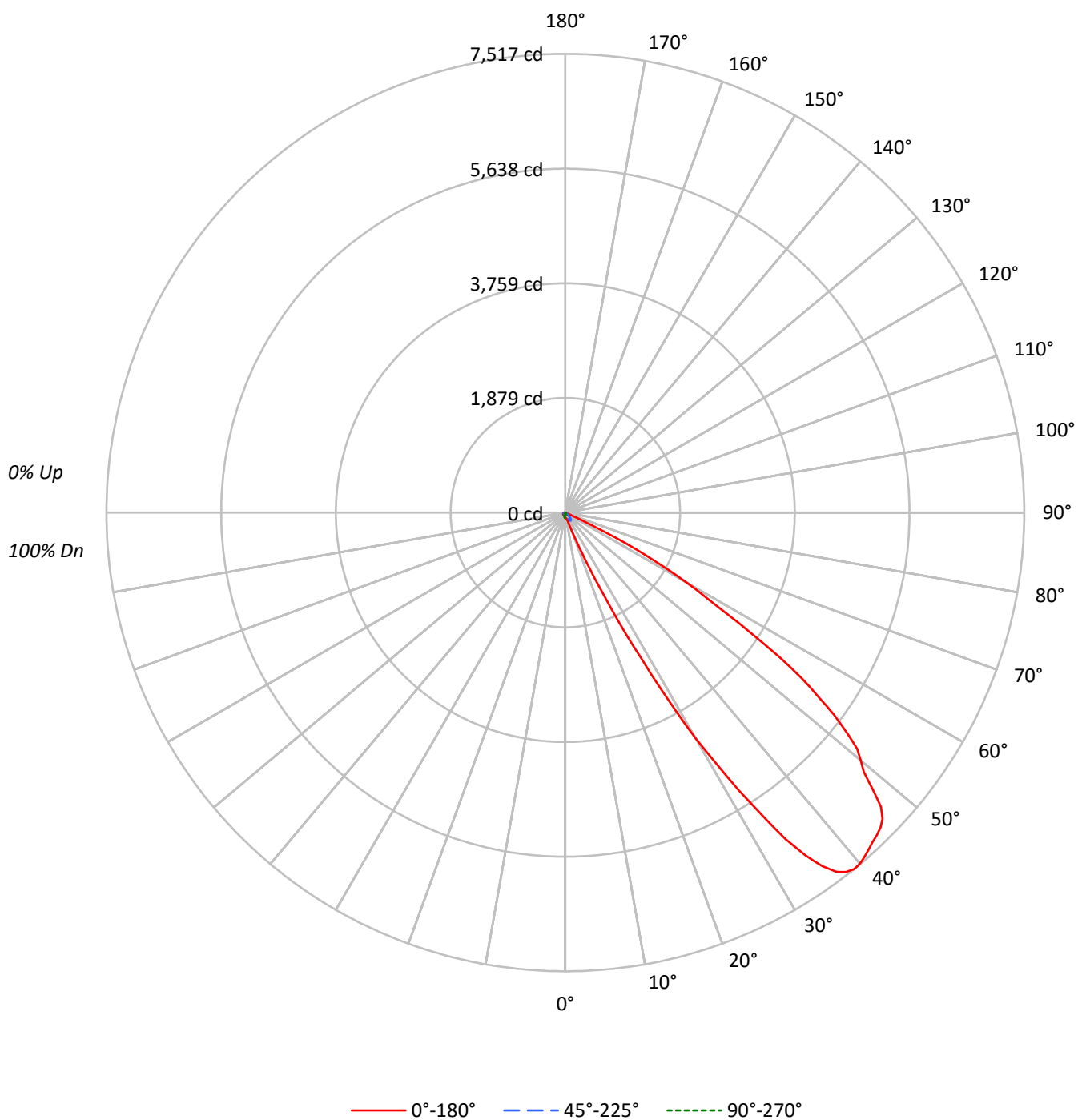
Lumens per Lamp: N/A
Luminaire Lumens: 1872.0 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1308326

CATALOG NUMBER: P3SQAS20R359030D010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1308326

CATALOG NUMBER: P3SQAS20R359030D010 E3SQCA451MMS

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	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29		
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24		
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20		
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14846	14846	14846	14846	14846
5°	16061	15784	14608	13139	12862
10°	16841	15372	13011	11227	11227
15°	24106	15066	10537	9646	9949
20°	60389	16110	8357	8357	9292
25°	280346	20561	6423	7715	8665
30°	852238	27901	5031	7060	8730
35°	1440347	32336	4268	6749	8536
40°	1688358	31902	3417	6835	9128
45°	1778058	22627	2874	7404	9889
50°	1692466	13584	2706	7690	10878
55°	1418193	5585	3033	8617	12671
60°	793946	1171	3479	9886	13984
65°	137047	693	3423	11003	15852
70°	2568	856	4230	11934	17876
75°	2262	1131	5590	13508	20229
80°	1686	1686	6744	15075	23505
85°	0	3359	13437	16599	26676

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1790658 cd/sqm

TEST NUMBER: P1308326

CATALOG NUMBER: P3SQAS20R359030D010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.8	0.4
10°-20°	22.1	1.2
20°-30°	114.9	6.1
30°-40°	496.1	26.5
40°-50°	707.6	37.8
50°-60°	438.2	23.4
60°-70°	66.7	3.6
70°-80°	12.5	0.7
80°-90°	6.3	0.3
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°	144.7	7.7
0°-40°	640.8	34.2
0°-60°	1786.6	95.4
0°-90°	1872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1872.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	86	86	86	86	86	
5°	93	91	84	76	74	9
15°	135	84	59	54	56	49
25°	1475	108	34	41	46	883
35°	6851	154	20	32	41	4113
45°	7300	93	12	30	41	5515
55°	4723	19	10	29	42	4023
65°	336	2	8	27	39	687
75°	3	2	8	20	30	4
85°	0	2	7	8	14	1
90°	0	0	0	0	0	

TEST NUMBER: P1308326

CATALOG NUMBER: P3SQAS20R359030D010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
2.5°	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	86.2	84.5
5°	92.9	92.9	91.3	91.3	91.3	91.3	91.3	91.3	87.9	84.5	79.4
7.5°	94.6	94.6	92.9	92.9	92.9	92.9	91.3	89.6	86.2	79.4	74.4
10°	96.3	96.3	96.3	96.3	94.6	92.9	91.3	87.9	82.8	74.4	69.3
12.5°	108.2	108.2	106.5	103.1	99.7	96.3	92.9	86.2	76.0	67.6	62.5
15°	135.2	133.5	130.1	125.1	118.3	109.8	103.1	84.5	69.3	59.1	55.8
17.5°	189.3	185.9	180.8	163.9	148.7	133.5	120.0	84.5	62.5	52.4	49.0
20°	329.5	331.2	295.7	255.2	221.4	184.2	150.4	87.9	55.8	45.6	43.9
22.5°	687.8	660.7	576.2	478.2	365.0	282.2	212.9	96.3	49.0	38.9	38.9
25°	1475.3	1372.2	1167.7	882.1	621.9	441.1	309.2	108.2	43.9	33.8	35.5
27.5°	2693.7	2600.7	2190.1	1649.3	1095.0	665.8	419.1	123.4	38.9	28.7	32.1
30°	4285.5	4028.7	3493.0	2703.8	1830.1	1019.0	562.7	140.3	32.1	25.3	30.4
31°	4782.4	4664.1	4011.8	3128.0	2144.5	1210.0	623.6	145.3	30.4	25.3	28.7
32°	5372.1	5162.6	4577.9	3592.7	2463.8	1380.6	696.2	150.4	28.7	22.0	28.7
33°	5899.4	5696.6	4985.1	4001.6	2786.6	1575.0	774.0	152.1	25.3	22.0	27.0
34°	6453.7	6176.5	5471.8	4429.2	3117.8	1784.5	844.9	153.8	23.7	20.3	27.0
35°	6850.8	6573.6	5890.9	4767.2	3403.4	1970.4	926.1	153.8	22.0	20.3	25.3
36°	7158.3	6915.0	6252.6	5115.3	3687.3	2137.7	990.3	153.8	18.6	18.6	25.3
37°	7369.6	7138.1	6495.9	5414.4	3903.6	2286.4	1047.7	153.8	16.9	18.6	25.3
38°	7472.7	7280.0	6730.8	5632.4	4113.2	2403.0	1093.4	150.4	15.2	16.9	23.7
39°	7516.6	7359.4	6874.4	5816.6	4270.3	2504.4	1127.2	147.0	13.5	16.9	23.7
40°	7509.8	7372.9	6955.5	5943.3	4397.1	2573.7	1145.7	141.9	11.8	15.2	23.7
41°	7471.0	7352.7	6997.8	6051.5	4473.1	2621.0	1150.8	136.9	10.1	15.2	22.0
42°	7427.0	7318.9	7011.3	6108.9	4522.1	2636.2	1137.3	130.1	10.1	13.5	22.0
43°	7381.4	7281.7	7011.3	6127.5	4534.0	2626.1	1115.3	118.3	8.4	13.5	22.0
44°	7344.2	7249.6	6989.3	6122.4	4508.6	2587.2	1074.8	104.8	6.8	13.5	22.0
45°	7300.3	7207.3	6960.6	6090.3	4459.6	2521.3	1024.1	92.9	5.1	11.8	22.0
46°	7222.6	7149.9	6909.9	6024.4	4381.9	2430.0	959.9	84.5	3.4	11.8	20.3
47°	7072.2	7009.6	6811.9	5926.4	4278.8	2321.9	893.9	76.0	3.4	11.8	20.3
48°	6769.7	6768.0	6615.9	5743.9	4114.9	2186.7	824.7	67.6	3.4	11.8	20.3
49°	6477.3	6446.9	6257.6	5422.8	3880.0	2024.5	752.0	60.8	1.7	11.8	20.3
50°	6316.8	6250.9	5939.9	5044.3	3579.2	1799.7	674.3	50.7	1.7	10.1	20.3
51°	6149.5	6054.8	5688.1	4702.9	3220.9	1583.4	589.8	40.6	1.7	10.1	18.6
52°	5847.0	5757.4	5346.8	4376.8	2872.8	1362.0	508.7	33.8	1.7	10.1	20.3
53°	5520.8	5392.4	4946.3	4018.5	2566.9	1166.0	425.8	28.7	1.7	10.1	18.6
54°	5110.2	5052.7	4540.7	3579.2	2208.7	976.8	349.8	23.7	1.7	10.1	18.6
55°	4723.2	4638.7	4106.4	3129.7	1884.2	801.0	292.3	18.6	1.7	10.1	18.6
56°	4229.8	4103.0	3604.5	2717.3	1554.7	645.5	246.7	15.2	1.7	10.1	18.6
57°	3641.7	3506.5	3112.8	2259.4	1220.1	491.8	206.2	11.8	1.7	10.1	18.6
58°	3080.7	2964.1	2541.6	1744.0	919.3	341.4	170.7	8.4	1.7	8.4	18.6
59°	2661.6	2533.1	2114.0	1341.8	638.8	251.8	128.4	6.8	1.7	10.1	18.6
60°	2305.0	2139.4	1701.7	1039.3	456.3	180.8	94.6	3.4	3.4	10.1	18.6
62.5°	1328.2	1172.8	812.8	422.5	187.6	92.9	45.6	1.7	3.4	10.1	18.6
65°	336.3	299.1	194.3	91.3	52.4	32.1	16.9	1.7	3.4	8.4	16.9



TEST NUMBER: P1308326

CATALOG NUMBER: P3SQAS20R359030D010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	11.8	11.8	11.8	10.1	8.4	6.8	3.4	1.7	3.4	8.4	16.9
70°	5.1	5.1	5.1	3.4	3.4	1.7	1.7	1.7	3.4	8.4	15.2
72.5°	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	5.1	8.4	13.5
75°	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	5.1	8.4	13.5
77.5°	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	5.1	6.8	11.8
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	5.1	6.8	10.1
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	5.1	6.8	8.4
85°	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	5.1	6.8	6.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.1	6.8	5.1
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: P1308326

CATALOG NUMBER: P3SQAS20R359030D010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	86.2	86.2	86.2
2.5°	81.1	81.1	81.1
5°	76.0	76.0	74.4
7.5°	71.0	69.3	69.3
10°	64.2	64.2	64.2
12.5°	59.1	59.1	59.1
15°	54.1	55.8	55.8
17.5°	49.0	52.4	52.4
20°	45.6	49.0	50.7
22.5°	42.2	45.6	47.3
25°	40.6	43.9	45.6
27.5°	37.2	42.2	45.6
30°	35.5	40.6	43.9
31°	35.5	40.6	42.2
32°	33.8	40.6	42.2
33°	33.8	40.6	42.2
34°	33.8	38.9	42.2
35°	32.1	38.9	40.6
36°	32.1	38.9	40.6
37°	32.1	38.9	42.2
38°	32.1	38.9	40.6
39°	30.4	38.9	40.6
40°	30.4	38.9	40.6
41°	30.4	38.9	40.6
42°	30.4	38.9	40.6
43°	30.4	38.9	40.6
44°	30.4	37.2	40.6
45°	30.4	37.2	40.6
46°	30.4	38.9	40.6
47°	30.4	38.9	42.2
48°	30.4	37.2	40.6
49°	28.7	37.2	40.6
50°	28.7	37.2	40.6
51°	28.7	38.9	42.2
52°	28.7	38.9	42.2
53°	28.7	38.9	42.2
54°	28.7	38.9	40.6
55°	28.7	38.9	42.2
56°	28.7	38.9	40.6
57°	28.7	38.9	40.6
58°	28.7	37.2	40.6
59°	28.7	37.2	40.6
60°	28.7	37.2	40.6
62.5°	27.0	37.2	40.6
65°	27.0	35.5	38.9



TEST NUMBER: P1308326

CATALOG NUMBER: P3SQAS20R359030D010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	25.3	35.5	37.2
70°	23.7	33.8	35.5
72.5°	22.0	32.1	33.8
75°	20.3	28.7	30.4
77.5°	16.9	25.3	28.7
80°	15.2	22.0	23.7
82.5°	11.8	18.6	20.3
85°	8.4	13.5	13.5
87.5°	3.4	6.8	6.8
90°	0.0	0.0	0.0

(END OF REPORT)