

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: P1310495

Luminaire Tested: P3SQAS20R159040D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R159040D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

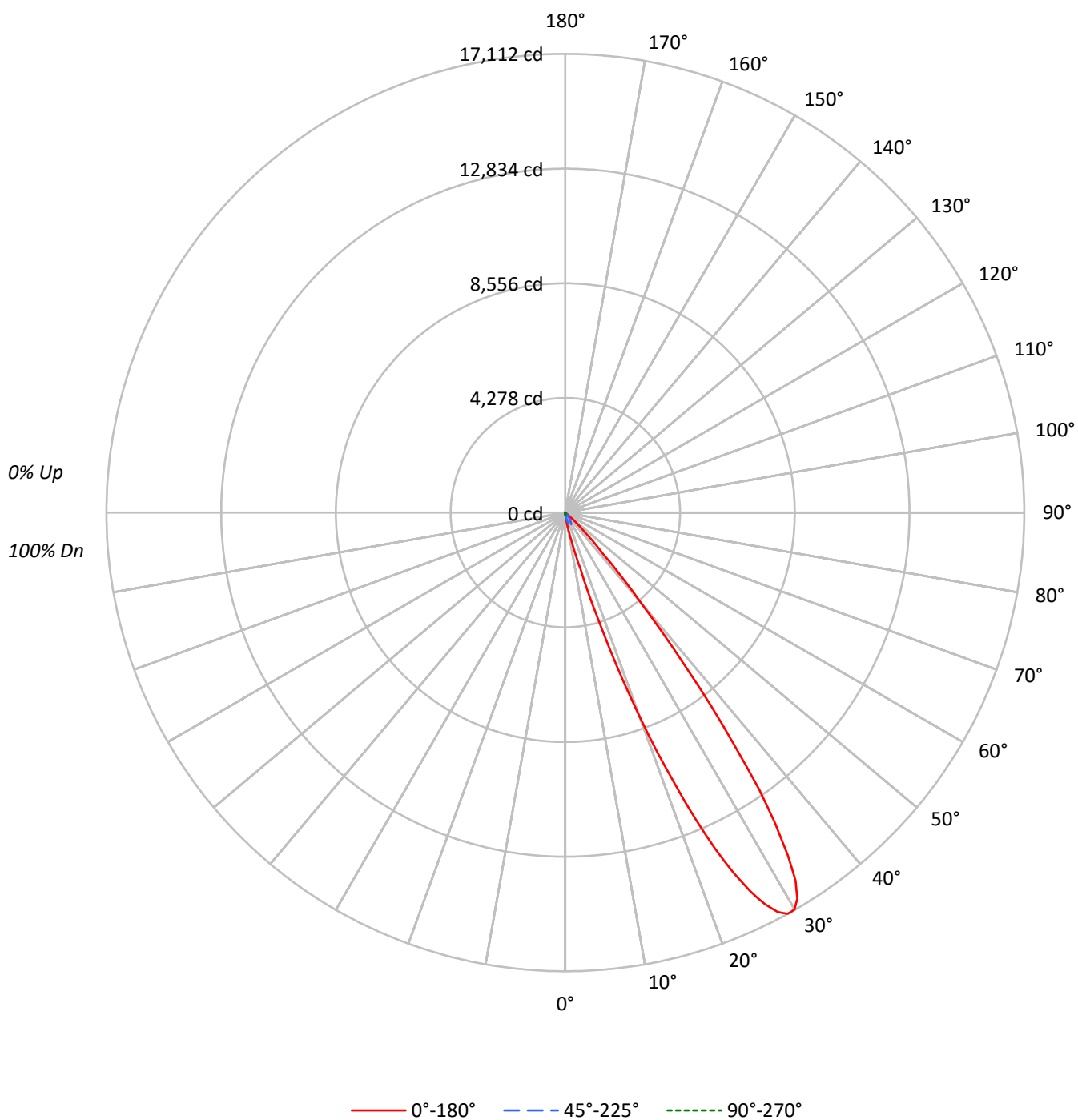
Lumens per Lamp: N/A
Luminaire Lumens: 1869.0 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1310495

CATALOG NUMBER: P3SQAS20R159040D010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1310495

CATALOG NUMBER: P3SQAS20R159040D010 E3SQCA301MW

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	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	69	64	72	67	64	71	66	63	61		
6	81	71	64	59	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	42	41		
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10643	10643	10643	10643	10643
5°	22941	16977	10062	5342	4408
10°	101745	32108	7957	2221	1591
15°	384767	74225	5509	981	642
20°	1479766	104632	3336	330	330
25°	2813953	98111	1729	0	0
30°	3399309	79188	716	0	0
35°	2651211	53886	378	0	0
40°	967493	26574	405	0	405
45°	248406	7964	438	0	877
50°	41904	965	482	482	1474
55°	5465	0	1081	1651	2732
60°	620	620	1894	2514	3754
65°	734	734	2975	3708	4442
70°	906	906	3676	3676	4582
75°	1198	1198	4858	3660	4858
80°	0	1785	5455	3570	5455
85°	0	3557	10868	3557	3557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 248406 cd/sqm

TEST NUMBER: P1310495

CATALOG NUMBER: P3SQAS20R159040D010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.5
10°-20°	143.2	7.7
20°-30°	794.3	42.5
30°-40°	767.4	41.1
40°-50°	133.5	7.1
50°-60°	9.6	0.5
60°-70°	5.6	0.3
70°-80°	4.6	0.2
80°-90°	2.3	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°	946.0	50.6
0°-40°	1713.4	91.7
0°-60°	1856.5	99.3
0°-90°	1869.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1869.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	62	62	62	62	62	
5°	133	98	58	31	26	26
15°	2158	416	31	6	4	962
25°	14808	516	9	0	0	6621
35°	12610	256	2	0	0	7252
45°	1020	33	2	0	4	1096
55°	18	0	4	6	9	35
65°	2	2	7	9	11	2
75°	2	2	7	6	7	1
85°	0	2	6	2	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1310495

CATALOG NUMBER: P3SQAS20R159040D010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
2.5°	90.9	87.3	89.1	89.1	89.1	89.1	89.1	85.4	85.4	87.3	78.2
5°	132.7	132.7	130.9	132.7	132.7	130.9	127.3	125.4	125.4	121.8	98.2
7.5°	265.4	261.8	261.8	258.2	240.0	234.5	230.9	221.8	205.4	201.8	127.3
10°	581.8	583.6	570.9	554.5	552.7	525.4	516.3	500.0	469.1	438.2	183.6
12.5°	1056.3	1032.7	1001.8	1003.6	950.8	932.7	890.9	845.4	798.1	749.0	301.8
15°	2158.0	2090.8	2130.8	2032.6	1921.7	1796.3	1669.0	1509.0	1372.6	1227.2	416.3
17.5°	4545.2	4610.6	4499.7	4079.7	3821.6	3518.0	3090.7	2678.0	2325.3	2041.7	509.1
20°	8074.0	8170.4	7794.1	7428.6	6801.4	6117.8	5405.1	4597.9	3825.2	3156.2	570.9
21°	9548.5	9490.3	9335.8	8750.4	8026.8	7234.1	6361.4	5470.6	4534.3	3665.2	576.3
22°	10973.9	11001.1	10641.1	10028.5	9275.8	8397.7	7332.3	6232.3	5223.3	4079.7	567.2
23°	12393.8	12481.0	12004.7	11430.2	10483.0	9492.1	8259.5	7072.3	5825.1	4554.3	549.1
24°	13708.2	13648.2	13326.4	12602.8	11590.2	10430.3	9150.3	7710.4	6319.6	4959.7	534.5
25°	14808.2	14800.9	14295.5	13591.9	12433.8	11148.4	9737.6	8232.2	6743.2	5234.2	516.3
26°	15708.1	15560.8	15162.7	14304.6	13161.0	11804.7	10219.4	8612.2	6981.4	5372.4	498.2
27°	16402.6	16297.2	15762.6	14870.0	13675.5	12175.6	10528.4	8801.3	7090.5	5417.8	474.5
28°	16869.8	16755.3	16186.3	15266.3	13959.1	12408.3	10692.1	8881.3	7090.5	5374.2	452.7
29°	17111.6	16955.3	16388.1	15402.7	14024.6	12435.6	10652.1	8803.1	6979.6	5239.7	427.2
30°	17093.5	16898.9	16304.4	15279.0	13830.0	12212.0	10428.4	8521.3	6728.7	5039.7	398.2
31°	16798.9	16580.8	15917.2	14860.9	13428.2	11790.2	10006.6	8143.1	6385.1	4779.7	369.1
32°	16200.8	15924.4	15277.2	14224.6	12810.1	11159.3	9394.0	7559.5	5870.5	4399.7	338.2
33°	15226.3	14948.1	14253.6	13266.4	11973.8	10359.3	8581.3	6932.3	5285.1	3947.0	312.7
34°	14006.4	13751.9	13153.7	12159.2	10919.3	9346.7	7646.8	6065.1	4677.9	3498.0	285.4
35°	12610.1	12204.7	11662.9	10875.7	9666.7	8084.9	6637.8	5257.9	4052.5	3027.1	256.3
36°	10721.1	10793.9	10219.4	9255.8	8254.0	7014.1	5625.1	4383.4	3388.9	2579.8	230.9
37°	9046.7	8932.2	8566.7	7821.3	6948.7	5717.8	4714.2	3716.1	2850.7	2181.7	203.6
38°	7297.7	7323.2	6965.0	6392.3	5526.9	4701.5	3794.3	3052.5	2385.3	1856.2	178.2
39°	5712.4	5692.4	5596.0	5065.1	4281.5	3739.8	3074.4	2530.7	1987.1	1565.4	150.9
40°	4303.4	4336.1	4110.6	3790.7	3334.3	2888.9	2448.9	2018.1	1643.5	1319.9	118.2
42.5°	2092.6	2143.5	1994.4	1912.6	1710.8	1536.3	1296.3	1058.1	899.9	778.1	52.7
45°	1019.9	990.8	978.1	938.1	890.9	796.3	705.4	605.4	529.1	456.3	32.7
47.5°	521.8	507.2	507.2	490.9	474.5	443.6	398.2	365.4	329.1	283.6	12.7
50°	156.4	154.5	152.7	154.5	149.1	154.5	158.2	160.0	145.4	143.6	3.6
52.5°	61.8	63.6	61.8	67.3	67.3	65.5	67.3	65.5	63.6	56.4	0.0
55°	18.2	18.2	18.2	18.2	18.2	18.2	20.0	21.8	20.0	21.8	0.0
57.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	0.0
60°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0	1.8
62.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
65°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
67.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
70°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8



TEST NUMBER: P1310495

CATALOG NUMBER: P3SQAS20R159040D010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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: P1310495

CATALOG NUMBER: P3SQAS20R159040D010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	61.8	61.8	61.8	61.8	61.8	61.8
2.5°	72.7	63.6	52.7	43.6	40.0	38.2
5°	78.2	58.2	40.0	30.9	27.3	25.5
7.5°	83.6	52.7	30.9	21.8	16.4	14.5
10°	87.3	45.5	23.6	12.7	9.1	9.1
12.5°	87.3	36.4	16.4	7.3	5.5	5.5
15°	85.4	30.9	10.9	5.5	3.6	3.6
17.5°	83.6	23.6	7.3	3.6	1.8	3.6
20°	78.2	18.2	3.6	1.8	1.8	1.8
21°	76.4	16.4	3.6	1.8	1.8	1.8
22°	72.7	14.5	1.8	0.0	1.8	1.8
23°	69.1	10.9	1.8	0.0	0.0	0.0
24°	63.6	9.1	1.8	0.0	0.0	0.0
25°	60.0	9.1	1.8	0.0	0.0	0.0
26°	56.4	5.5	0.0	0.0	0.0	0.0
27°	50.9	3.6	0.0	0.0	0.0	0.0
28°	47.3	3.6	0.0	0.0	0.0	0.0
29°	41.8	3.6	0.0	0.0	0.0	0.0
30°	36.4	3.6	0.0	0.0	0.0	0.0
31°	29.1	1.8	0.0	0.0	0.0	0.0
32°	23.6	1.8	0.0	0.0	0.0	0.0
33°	16.4	1.8	0.0	0.0	0.0	0.0
34°	10.9	1.8	0.0	0.0	0.0	0.0
35°	9.1	1.8	0.0	0.0	0.0	0.0
36°	5.5	1.8	0.0	0.0	0.0	1.8
37°	5.5	1.8	0.0	0.0	0.0	1.8
38°	3.6	1.8	0.0	0.0	0.0	1.8
39°	1.8	1.8	0.0	0.0	0.0	1.8
40°	1.8	1.8	0.0	0.0	0.0	1.8
42.5°	0.0	1.8	0.0	0.0	1.8	3.6
45°	0.0	1.8	0.0	0.0	1.8	3.6
47.5°	0.0	1.8	0.0	0.0	3.6	3.6
50°	0.0	1.8	1.8	1.8	3.6	5.5
52.5°	0.0	3.6	1.8	3.6	5.5	7.3
55°	1.8	3.6	3.6	5.5	7.3	9.1
57.5°	1.8	5.5	5.5	7.3	9.1	9.1
60°	3.6	5.5	7.3	7.3	10.9	10.9
62.5°	3.6	7.3	7.3	7.3	10.9	10.9
65°	3.6	7.3	7.3	9.1	10.9	10.9
67.5°	3.6	7.3	7.3	7.3	9.1	10.9
70°	3.6	7.3	5.5	7.3	9.1	9.1
72.5°	3.6	7.3	5.5	5.5	7.3	9.1
75°	3.6	7.3	5.5	5.5	7.3	7.3
77.5°	3.6	5.5	5.5	3.6	5.5	5.5
80°	3.6	5.5	3.6	3.6	5.5	5.5



TEST NUMBER: P1310495

CATALOG NUMBER: P3SQAS20R159040D010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.6	5.5	3.6	1.8	3.6	3.6
85°	3.6	5.5	3.6	1.8	1.8	1.8
87.5°	3.6	5.5	1.8	0.0	0.0	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)