

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: P1306251

Luminaire Tested: P3SQASS20R409024D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQASS20R409024D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 2400K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

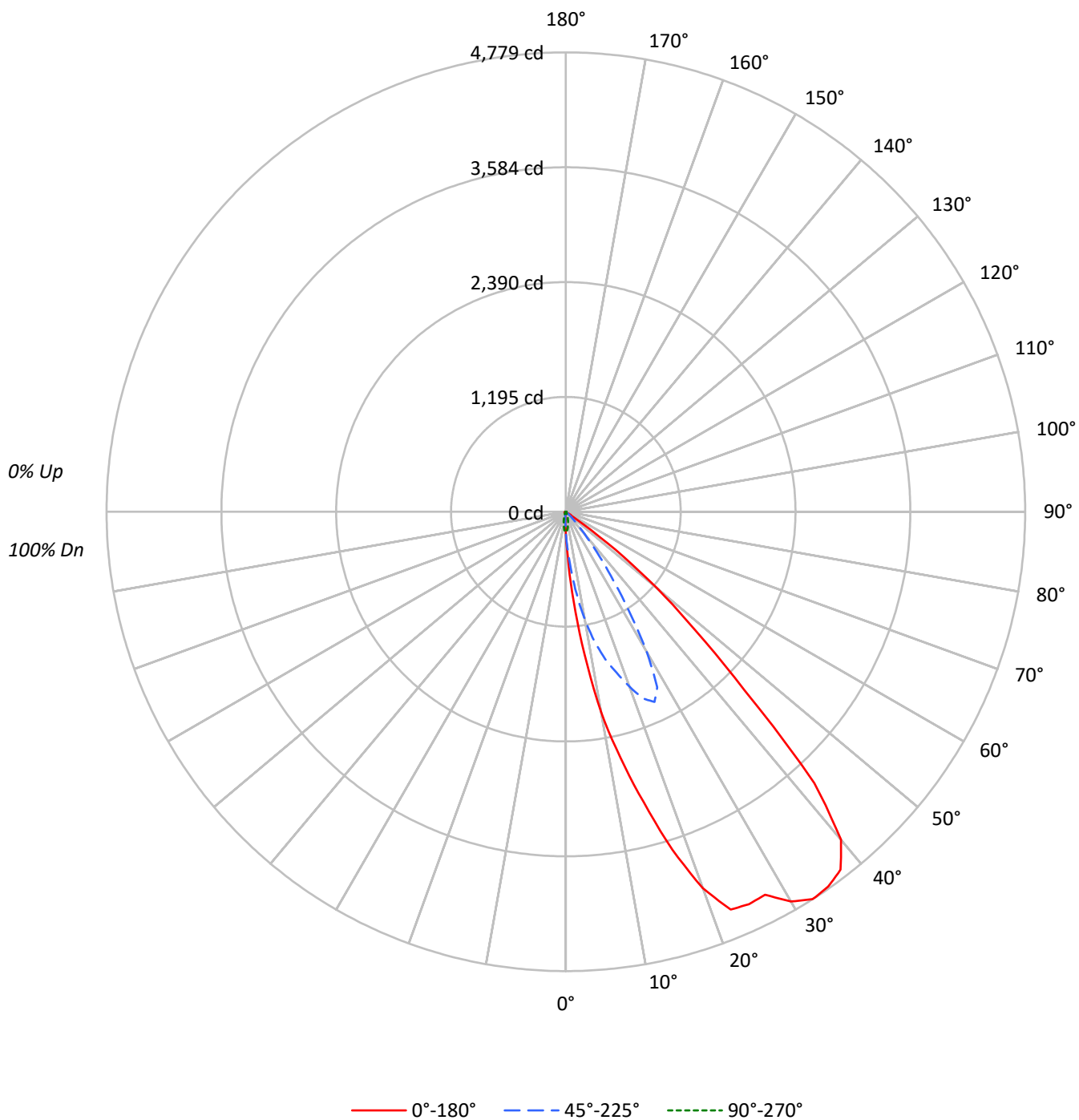
Lumens per Lamp: N/A
Luminaire Lumens: 1763.1 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1306251

CATALOG NUMBER: P3SQASS20R409024D010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1306251

CATALOG NUMBER: P3SQASS20R409024D010 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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	35926	35926	35926	35926	35926
5°	162024	103296	32208	12361	9024
10°	371584	199607	22664	4424	3393
15°	557645	283209	14086	2389	2122
20°	763562	355023	8192	1375	1631
25°	855956	414809	4257	1140	1425
30°	931049	334850	1770	895	1491
35°	1000598	171371	631	1261	1871
40°	1000969	68345	337	1349	2338
45°	639100	22870	731	2168	3264
50°	331752	2786	1206	2786	3992
55°	28645	450	1351	3573	4924
60°	1033	517	1550	4099	5649
65°	1223	611	2445	4238	6072
70°	755	755	3021	4482	5992
75°	998	998	2994	4991	6920
80°	1488	1488	4463	4463	5951
85°	0	2964	8892	5928	5928

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 639100 cd/sqm

TEST NUMBER: P1306251

CATALOG NUMBER: P3SQASS20R409024D010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	2.3
10°-20°	238.6	13.5
20°-30°	522.6	29.6
30°-40°	595.4	33.8
40°-50°	314.1	17.8
50°-60°	37.1	2.1
60°-70°	6.7	0.4
70°-80°	5.5	0.3
80°-90°	2.5	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°	801.9	45.5
0°-40°	1397.2	79.2
0°-60°	1748.4	99.2
0°-90°	1763.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1763.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	209	209	209	209	209	
5°	937	598	186	72	52	126
15°	3128	1588	79	13	12	921
25°	4504	2183	22	6	8	2075
35°	4759	815	3	6	9	2950
45°	2624	94	3	9	13	2116
55°	95	2	4	12	16	296
65°	3	2	6	10	15	3
75°	2	2	4	8	10	2
85°	0	2	4	3	3	0
90°	0	0	0	0	0	

TEST NUMBER: P1306251

CATALOG NUMBER: P3SQASS20R409024D010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6
2.5°	464.9	464.9	463.4	450.0	448.5	447.0	423.2	417.2	388.9	369.5	281.6
5°	937.2	916.4	914.9	891.1	850.8	797.2	762.9	707.8	654.1	597.5	347.2
7.5°	1493.0	1510.9	1461.7	1436.4	1347.0	1282.9	1184.6	1098.2	977.5	864.2	400.8
10°	2124.8	2093.5	2044.4	1995.2	1898.3	1783.6	1637.6	1484.1	1309.8	1141.4	430.6
12.5°	2618.0	2577.8	2548.0	2480.9	2385.6	2238.1	2063.7	1858.1	1627.1	1384.3	429.1
15°	3127.6	3087.4	3020.3	2960.7	2819.2	2653.8	2464.6	2193.4	1910.3	1588.4	397.8
17.5°	3687.9	3635.7	3561.2	3470.3	3333.3	3150.0	2910.1	2579.3	2178.5	1755.3	341.2
20°	4166.2	4134.9	4060.4	3953.1	3819.0	3640.2	3363.1	2996.5	2507.8	1937.1	271.2
22.5°	4479.1	4450.8	4400.1	4306.3	4204.9	4014.2	3760.9	3358.6	2783.4	2102.5	205.6
25°	4504.4	4492.5	4479.1	4447.8	4386.7	4251.1	4003.8	3570.2	2954.8	2182.9	152.0
27.5°	4491.0	4486.6	4483.6	4467.2	4427.0	4292.9	4039.5	3601.5	2932.4	2057.8	111.8
30°	4681.8	4668.3	4660.9	4607.3	4501.5	4294.3	3963.5	3433.1	2606.1	1683.8	80.5
32.5°	4778.6	4775.6	4768.2	4716.0	4567.0	4297.3	3835.4	3026.3	2066.7	1215.9	55.1
35°	4759.2	4744.3	4717.5	4620.7	4413.5	4075.3	3421.2	2416.9	1491.5	815.1	35.8
37.5°	4693.7	4659.4	4607.3	4432.9	4157.3	3695.3	2774.5	1779.1	1014.7	527.5	20.9
40°	4452.3	4406.1	4324.1	4111.1	3749.0	3045.7	2051.8	1202.5	666.1	304.0	6.0
42.5°	3828.0	3768.4	3708.7	3470.3	3056.1	2270.8	1350.0	743.5	380.0	166.9	1.5
45°	2624.0	2549.5	2467.5	2294.7	1962.4	1375.3	803.1	418.7	196.7	93.9	1.5
47.5°	1822.3	1788.1	1645.0	1424.5	1092.2	728.6	415.7	205.6	104.3	43.2	1.5
50°	1238.2	1199.5	1032.6	819.5	581.1	348.7	190.7	102.8	46.2	10.4	1.5
52.5°	649.7	602.0	496.2	378.5	235.4	146.0	83.4	44.7	13.4	1.5	1.5
55°	95.4	87.9	71.5	58.1	52.2	40.2	23.8	10.4	1.5	1.5	3.0
57.5°	3.0	3.0	3.0	3.0	4.5	4.5	3.0	1.5	1.5	1.5	3.0
60°	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5	1.5	3.0
62.5°	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5	1.5	3.0
65°	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5	1.5	3.0
67.5°	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5	1.5	3.0	4.5
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	4.5
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	4.5
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	4.5
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	4.5
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0
82.5°	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	4.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	3.0
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: P1306251

CATALOG NUMBER: P3SQASS20R409024D010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	208.6	208.6	208.6	208.6	208.6
2.5°	205.6	152.0	117.7	101.3	99.8
5°	186.3	108.8	71.5	55.1	52.2
7.5°	157.9	76.0	41.7	29.8	28.3
10°	129.6	52.2	25.3	20.9	19.4
12.5°	102.8	34.3	17.9	16.4	14.9
15°	79.0	22.4	13.4	11.9	11.9
17.5°	59.6	14.9	10.4	10.4	10.4
20°	44.7	10.4	7.5	8.9	8.9
22.5°	31.3	7.5	6.0	7.5	7.5
25°	22.4	6.0	6.0	7.5	7.5
27.5°	14.9	4.5	4.5	6.0	7.5
30°	8.9	3.0	4.5	6.0	7.5
32.5°	4.5	3.0	4.5	7.5	7.5
35°	3.0	4.5	6.0	7.5	8.9
37.5°	1.5	4.5	6.0	8.9	8.9
40°	1.5	4.5	6.0	8.9	10.4
42.5°	3.0	6.0	7.5	10.4	11.9
45°	3.0	6.0	8.9	11.9	13.4
47.5°	3.0	6.0	10.4	13.4	13.4
50°	4.5	7.5	10.4	13.4	14.9
52.5°	4.5	7.5	10.4	14.9	16.4
55°	4.5	7.5	11.9	14.9	16.4
57.5°	4.5	8.9	11.9	14.9	16.4
60°	4.5	7.5	11.9	14.9	16.4
62.5°	6.0	7.5	10.4	14.9	14.9
65°	6.0	7.5	10.4	14.9	14.9
67.5°	6.0	7.5	10.4	13.4	13.4
70°	6.0	7.5	8.9	11.9	11.9
72.5°	6.0	7.5	8.9	10.4	11.9
75°	4.5	6.0	7.5	8.9	10.4
77.5°	4.5	6.0	6.0	8.9	8.9
80°	4.5	4.5	4.5	6.0	6.0
82.5°	4.5	4.5	3.0	4.5	4.5
85°	4.5	3.0	3.0	3.0	3.0
87.5°	3.0	3.0	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)