

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: P1306278

Luminaire Tested: P3SQASS20R559024D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQASS20R559024D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R55 optic, 2400K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

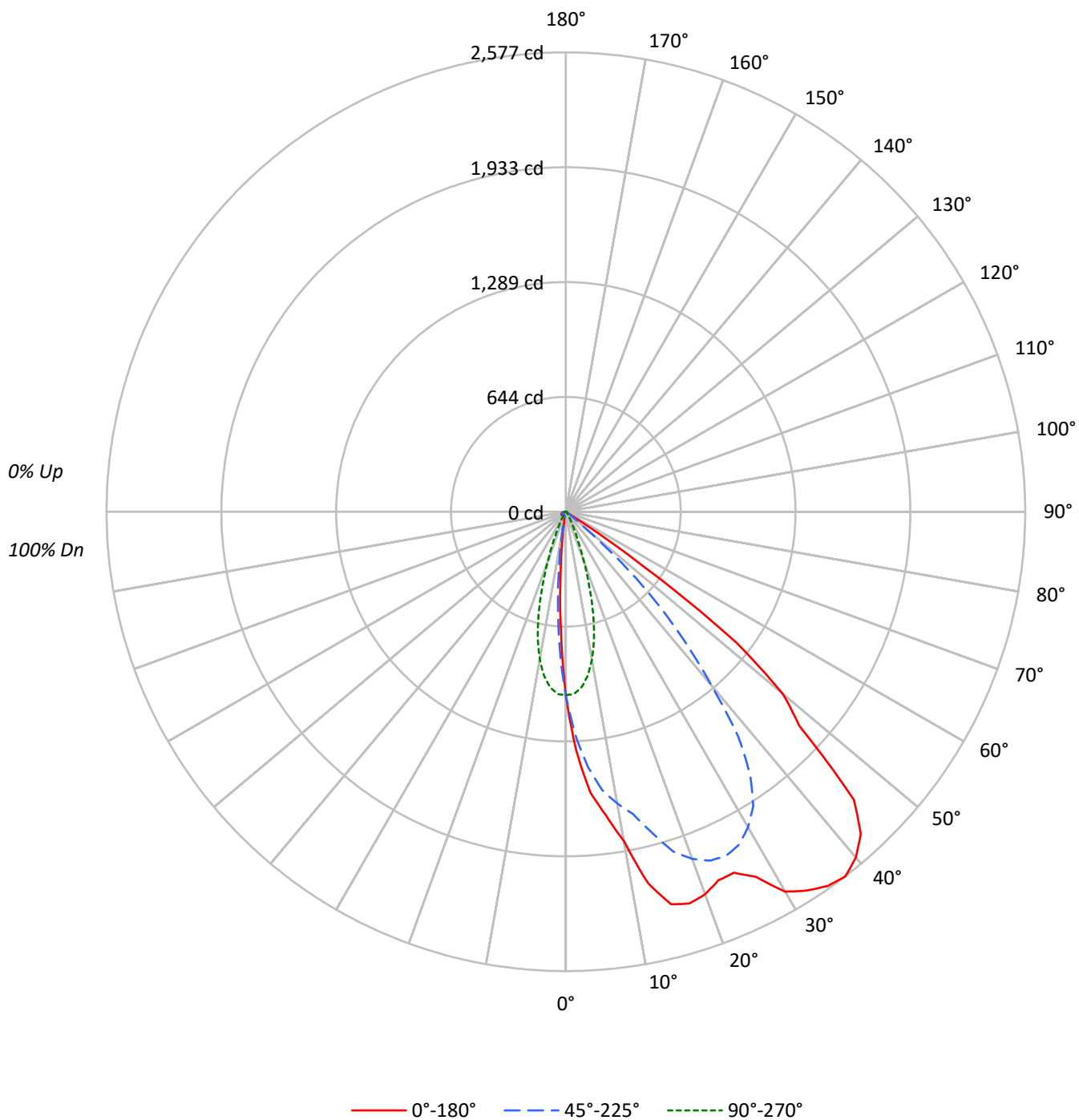
Lumens per Lamp: N/A
Luminaire Lumens: 1716.0 lumens
Efficiency: N/A
Efficacy: 59.6 lumens/watt
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1306278

CATALOG NUMBER: P3SQASS20R559024D010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1306278

CATALOG NUMBER: P3SQASS20R559024D010 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	102	102	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	93	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	83	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	75	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	67	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	61	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	55	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	50	50	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	45	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	41	41	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	177131	177131	177131	177131	177131
5°	273151	248671	171117	87875	57725
10°	328196	290650	147283	22157	8866
15°	406359	331955	105249	6116	4778
20°	418528	379729	54360	4105	4105
25°	424596	404491	21815	3687	4257
30°	489408	406402	9486	3858	4455
35°	538711	378883	4079	4079	5004
40°	569021	285185	2338	4699	5351
45°	556558	174267	2168	5090	6527
50°	425742	37135	2385	6002	7582
55°	156196	1351	2672	6726	8497
60°	1550	1550	3066	7716	9748
65°	1834	1834	3627	7906	10310
70°	1511	2266	3777	9013	11984
75°	998	1996	3993	9915	13907
80°	1488	2975	4463	10315	14778
85°	0	2964	5928	11856	14820

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 556558 cd/sqm

TEST NUMBER: P1306278

CATALOG NUMBER: P3SQASS20R559024D010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	5.3
10°-20°	259.3	15.1
20°-30°	397.8	23.2
30°-40°	463.5	27.0
40°-50°	370.4	21.6
50°-60°	109.6	6.4
60°-70°	11.8	0.7
70°-80°	9.2	0.5
80°-90°	3.9	0.2
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°	747.6	43.6
0°-40°	1211.1	70.6
0°-60°	1691.1	98.5
0°-90°	1716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1716.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1028	1028	1028	1028	1028	
5°	1580	1438	990	508	334	157
15°	2279	1862	590	34	27	629
25°	2234	2129	115	19	22	1061
35°	2562	1802	19	19	24	1596
45°	2285	716	9	21	27	1648
55°	520	4	9	22	28	551
65°	4	4	9	19	25	4
75°	2	3	6	15	21	2
85°	0	2	3	6	8	1
90°	0	0	0	0	0	

TEST NUMBER: P1306278

CATALOG NUMBER: P3SQASS20R559024D010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5
2.5°	1341.5	1341.5	1337.1	1338.6	1335.6	1319.2	1316.2	1295.3	1277.4	1258.1	1241.7
5°	1580.0	1583.0	1578.5	1569.6	1557.7	1545.7	1520.4	1501.0	1475.7	1438.4	1404.1
7.5°	1715.7	1712.7	1705.2	1702.3	1694.8	1681.4	1663.5	1642.6	1612.8	1575.6	1535.3
10°	1876.7	1851.3	1843.9	1831.9	1808.1	1781.3	1750.0	1721.6	1696.3	1662.0	1618.8
12.5°	2136.0	2131.6	2101.7	2079.4	2046.6	1987.0	1933.3	1870.7	1796.2	1736.5	1679.9
15°	2279.1	2282.1	2268.7	2250.8	2229.9	2180.7	2127.1	2054.0	1966.1	1861.8	1769.3
17.5°	2304.5	2308.9	2301.5	2294.0	2288.1	2259.7	2227.0	2174.8	2094.3	1997.4	1860.3
20°	2283.6	2292.5	2294.0	2303.0	2314.9	2303.0	2276.1	2240.4	2173.3	2071.9	1940.8
22.5°	2237.4	2253.8	2265.7	2297.0	2328.3	2328.3	2311.9	2283.6	2218.0	2118.1	1984.0
25°	2234.4	2237.4	2241.9	2292.5	2341.7	2352.2	2337.3	2307.4	2235.9	2128.6	1982.5
27.5°	2308.9	2289.6	2259.7	2310.4	2368.6	2377.5	2356.6	2316.4	2231.4	2104.7	1931.8
30°	2461.0	2417.7	2355.1	2392.4	2432.7	2422.2	2380.5	2316.4	2201.6	2043.6	1836.4
32.5°	2519.1	2495.3	2472.9	2513.1	2520.6	2477.4	2402.8	2307.4	2153.9	1957.2	1679.9
35°	2562.3	2563.8	2554.9	2562.3	2526.6	2465.4	2383.5	2258.3	2064.5	1802.1	1472.7
37.5°	2577.2	2580.2	2560.8	2534.0	2480.4	2410.3	2311.9	2168.8	1915.4	1589.0	1159.7
40°	2531.0	2522.1	2490.8	2453.5	2395.4	2323.8	2216.5	2003.4	1693.3	1268.5	904.8
42.5°	2449.0	2434.1	2396.9	2352.2	2291.0	2200.1	2028.7	1770.8	1375.8	989.8	633.5
45°	2285.1	2274.6	2228.4	2195.6	2122.6	2004.9	1784.2	1459.3	1064.3	715.5	366.7
47.5°	1775.3	1776.8	1812.6	1829.0	1803.6	1709.7	1450.4	1109.0	776.6	426.3	123.7
50°	1589.0	1581.5	1545.7	1496.6	1414.6	1274.5	1064.3	784.1	459.1	138.6	17.9
52.5°	1205.9	1205.9	1188.0	1162.7	1076.2	940.6	720.0	433.8	161.0	23.8	4.5
55°	520.2	493.4	508.3	536.6	514.3	447.2	336.9	129.7	28.3	4.5	4.5
57.5°	7.5	17.9	26.8	43.2	58.1	70.1	37.3	13.4	4.5	4.5	4.5
60°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
62.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
65°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
67.5°	3.0	3.0	3.0	4.5	3.0	4.5	4.5	4.5	4.5	4.5	4.5
70°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5
72.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
75°	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0	3.0	3.0
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0
85°	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
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: P1306278

CATALOG NUMBER: P3SQASS20R559024D010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5
2.5°	1217.8	1192.5	1150.7	1024.0	892.9	772.1	685.7	652.9
5°	1365.4	1319.2	1249.1	989.8	728.9	508.3	383.1	333.9
7.5°	1481.7	1422.0	1320.7	930.1	535.1	271.3	162.5	128.2
10°	1559.2	1493.6	1360.9	842.2	354.8	126.7	61.1	50.7
12.5°	1615.8	1533.8	1375.8	728.9	208.7	58.1	32.8	29.8
15°	1657.5	1551.7	1357.9	590.3	114.8	34.3	26.8	26.8
17.5°	1715.7	1560.7	1314.7	435.3	65.6	25.3	25.3	25.3
20°	1760.4	1560.7	1232.7	296.6	40.2	22.4	22.4	22.4
22.5°	1782.8	1536.8	1132.9	187.8	28.3	20.9	22.4	22.4
25°	1760.4	1478.7	1004.7	114.8	22.4	19.4	20.9	22.4
27.5°	1678.4	1362.4	833.2	73.0	17.9	19.4	20.9	22.4
30°	1541.3	1194.0	639.5	47.7	16.4	19.4	20.9	22.4
32.5°	1347.5	943.5	414.4	31.3	14.9	19.4	20.9	22.4
35°	1052.4	667.8	250.4	19.4	14.9	19.4	22.4	23.8
37.5°	788.5	445.7	135.6	11.9	14.9	19.4	22.4	23.8
40°	547.0	259.4	58.1	10.4	14.9	20.9	23.8	23.8
42.5°	317.5	102.9	14.9	8.9	14.9	20.9	23.8	25.3
45°	116.3	20.9	4.5	8.9	16.4	20.9	23.8	26.8
47.5°	16.4	4.5	4.5	8.9	16.4	20.9	25.3	26.8
50°	4.5	4.5	4.5	8.9	16.4	22.4	26.8	28.3
52.5°	4.5	4.5	4.5	8.9	16.4	22.4	26.8	28.3
55°	4.5	4.5	4.5	8.9	16.4	22.4	26.8	28.3
57.5°	4.5	4.5	4.5	8.9	16.4	22.4	26.8	28.3
60°	4.5	4.5	4.5	8.9	14.9	22.4	26.8	28.3
62.5°	4.5	4.5	4.5	8.9	14.9	20.9	25.3	26.8
65°	4.5	4.5	4.5	8.9	13.4	19.4	25.3	25.3
67.5°	4.5	4.5	4.5	7.5	13.4	19.4	23.8	25.3
70°	4.5	4.5	4.5	7.5	11.9	17.9	22.4	23.8
72.5°	4.5	4.5	4.5	6.0	10.4	16.4	20.9	22.4
75°	3.0	4.5	4.5	6.0	10.4	14.9	19.4	20.9
77.5°	3.0	4.5	4.5	4.5	8.9	11.9	16.4	17.9
80°	3.0	3.0	4.5	4.5	7.5	10.4	13.4	14.9
82.5°	3.0	3.0	3.0	4.5	6.0	7.5	10.4	10.4
85°	3.0	3.0	3.0	3.0	4.5	6.0	7.5	7.5
87.5°	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)