

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: P1306276

Luminaire Tested: P3SQAS20R559024D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-54)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R559024D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R55 optic, 2400K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

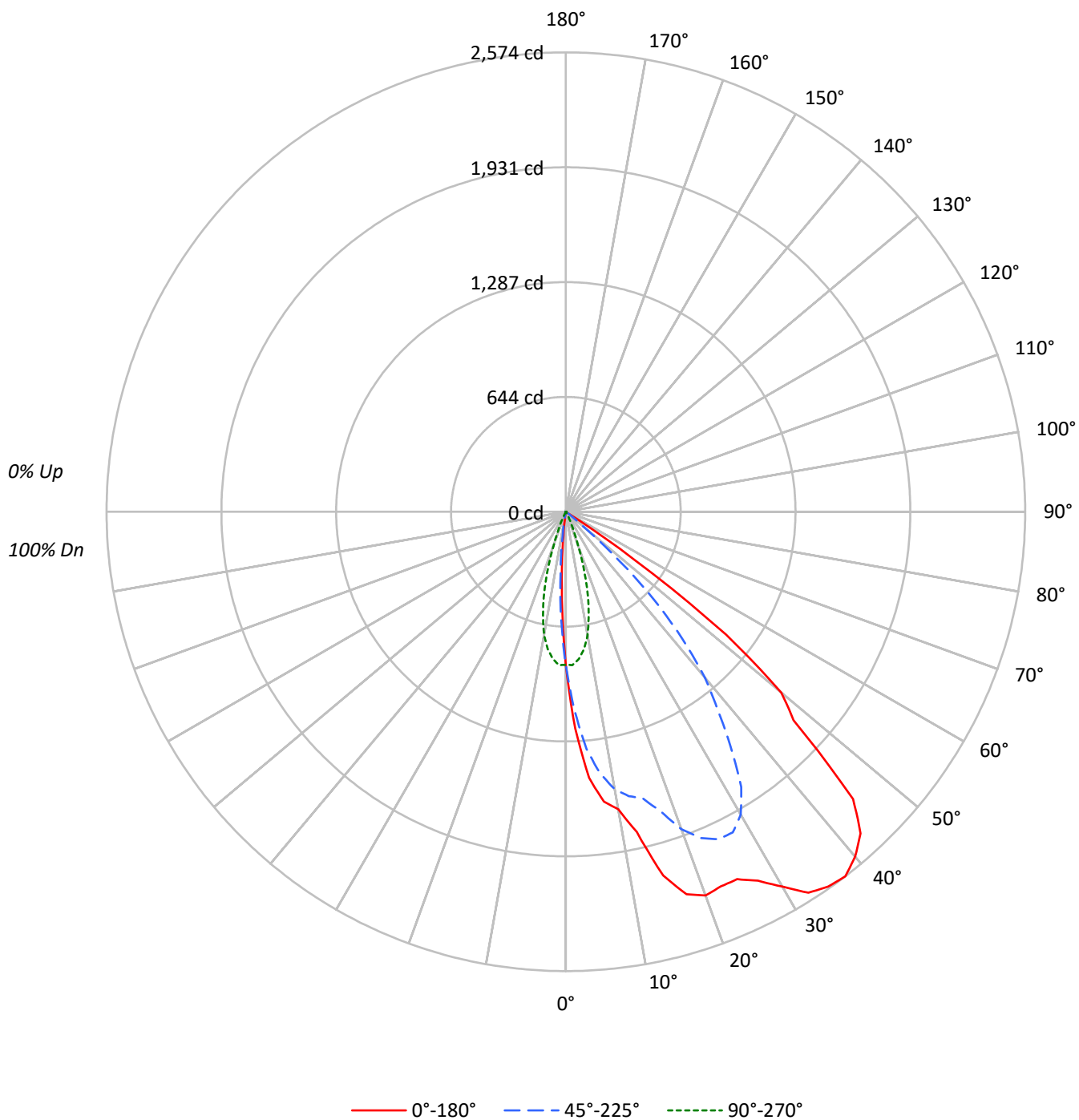
Lumens per Lamp: N/A
Luminaire Lumens: 1586.0 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1306276

CATALOG NUMBER: P3SQAS20R559024D010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1306276

CATALOG NUMBER: P3SQAS20R559024D010 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	0
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	99	95	90	103	98	93	89	94	91	87		91	88	86		88	86	84	82
3	98	90	84	80	96	89	83	79	86	82	78		84	80	76		81	78	75	73
4	92	82	76	71	90	81	75	70	79	74	69		77	72	68		75	71	68	66
5	86	75	68	63	84	74	68	63	72	67	62		71	65	61		69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56		65	60	55		64	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50		60	54	50		59	54	50	48
8	70	58	51	46	68	58	51	46	56	50	46		55	50	46		54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42		51	46	42		50	45	41	40
10	62	50	43	38	60	49	43	38	49	42	38		48	42	38		47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	147595	147595	147595	147595	147595
5°	258698	230605	143266	59523	34265
10°	296088	276030	122503	6523	2343
15°	376298	296296	83978	1337	802
20°	419298	346647	36875	0	0
25°	431627	384614	10470	0	0
30°	482249	389757	1491	0	0
35°	538984	338431	0	0	0
40°	566953	272415	0	0	0
45°	554317	172075	0	0	0
50°	422098	35153	0	0	0
55°	138270	0	0	0	0
60°	0	0	0	0	0
65°	0	611	611	0	0
70°	0	755	755	0	0
75°	0	998	998	0	0
80°	0	1488	2975	1488	0
85°	0	2964	2964	2964	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 554317 cd/sqm

TEST NUMBER: P1306276

CATALOG NUMBER: P3SQAS20R559024D010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	4.9
10°-20°	229.5	14.5
20°-30°	373.2	23.5
30°-40°	443.5	28.0
40°-50°	362.7	22.9
50°-60°	96.1	6.1
60°-70°	0.6	0.0
70°-80°	1.0	0.1
80°-90°	1.1	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°	681.0	42.9
0°-40°	1124.5	70.9
0°-60°	1583.3	99.8
0°-90°	1586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1586.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	857	857	857	857	857	
5°	1496	1334	829	344	198	147
15°	2110	1662	471	8	4	590
25°	2271	2024	55	0	0	1070
35°	2564	1610	0	0	0	1594
45°	2276	706	0	0	0	1634
55°	460	0	0	0	0	518
65°	0	2	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	2	2	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1306276

CATALOG NUMBER: P3SQAS20R559024D010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	857.0	857.0	857.0	857.0	857.0	857.0	857.0	857.0	857.0	857.0	857.0
2.5°	1216.2	1207.3	1208.8	1204.3	1208.8	1189.4	1168.5	1149.1	1134.2	1113.4	986.7
5°	1496.4	1481.5	1477.0	1471.1	1465.1	1441.3	1421.9	1398.0	1369.7	1333.9	1101.4
7.5°	1638.0	1626.1	1620.1	1623.1	1609.7	1600.7	1575.4	1548.6	1518.8	1480.0	1187.9
10°	1693.1	1681.2	1679.7	1678.2	1676.7	1670.8	1658.9	1635.0	1608.2	1578.4	1237.1
12.5°	1837.7	1810.9	1793.0	1772.1	1746.8	1714.0	1687.2	1666.3	1655.9	1632.0	1259.4
15°	2110.5	2085.1	2065.8	2038.9	1991.2	1921.2	1857.1	1775.1	1703.6	1661.8	1250.5
17.5°	2247.6	2235.7	2219.3	2201.4	2168.6	2117.9	2052.3	1965.9	1875.0	1757.2	1207.3
20°	2287.8	2281.9	2269.9	2262.5	2240.1	2204.4	2159.7	2092.6	2007.6	1891.4	1140.2
22.5°	2271.4	2275.9	2281.9	2301.2	2304.2	2278.9	2237.2	2173.1	2086.6	1979.3	1037.3
25°	2271.4	2268.5	2268.5	2308.7	2334.0	2322.1	2292.3	2234.2	2146.2	2024.0	910.7
27.5°	2329.6	2311.7	2274.4	2316.2	2357.9	2353.4	2326.6	2258.0	2159.7	2025.5	755.7
30°	2425.0	2386.2	2325.1	2363.8	2402.6	2386.2	2343.0	2255.0	2129.8	1959.9	566.4
32.5°	2530.8	2512.9	2481.6	2506.9	2501.0	2435.4	2357.9	2235.7	2068.7	1828.8	381.6
35°	2563.6	2566.5	2545.7	2541.2	2506.9	2439.9	2357.9	2180.5	1940.6	1609.7	226.5
37.5°	2574.0	2575.5	2542.7	2501.0	2450.3	2371.3	2272.9	2067.2	1703.6	1398.0	120.7
40°	2521.8	2520.3	2466.7	2416.0	2359.4	2281.9	2138.8	1828.8	1478.5	1211.7	43.2
42.5°	2444.3	2425.0	2374.3	2311.7	2243.1	2146.2	1922.7	1544.1	1284.8	970.3	3.0
45°	2275.9	2258.0	2217.8	2150.7	2074.7	1937.6	1584.3	1326.5	1044.8	706.5	0.0
47.5°	1730.4	1721.5	1763.2	1772.1	1770.6	1614.2	1322.0	1082.1	767.6	411.4	0.0
50°	1575.4	1563.5	1521.7	1468.1	1372.7	1241.5	1059.7	801.9	450.1	131.2	0.0
52.5°	1131.2	1170.0	1178.9	1138.7	1049.3	919.6	730.3	462.0	156.5	0.0	0.0
55°	460.5	436.7	454.6	476.9	494.8	454.6	336.8	163.9	1.5	0.0	0.0
57.5°	0.0	1.5	8.9	20.9	34.3	43.2	46.2	3.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	1.5	1.5	1.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	3.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P1306276

CATALOG NUMBER: P3SQAS20R559024D010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	857.0	857.0	857.0	857.0	857.0
2.5°	860.0	727.3	599.2	529.1	494.8
5°	828.7	555.9	344.3	238.5	198.2
7.5°	776.5	381.6	137.1	56.6	40.2
10°	700.5	219.1	37.3	14.9	13.4
12.5°	591.7	99.9	13.4	10.4	10.4
15°	471.0	34.3	7.5	6.0	4.5
17.5°	330.9	8.9	3.0	0.0	0.0
20°	201.2	1.5	0.0	0.0	0.0
22.5°	111.8	0.0	0.0	0.0	0.0
25°	55.1	0.0	0.0	0.0	0.0
27.5°	23.8	0.0	0.0	0.0	0.0
30°	7.5	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	1.5	0.0	0.0	0.0	0.0
65°	1.5	1.5	0.0	0.0	0.0
67.5°	1.5	1.5	0.0	0.0	0.0
70°	1.5	1.5	0.0	0.0	0.0
72.5°	1.5	1.5	0.0	0.0	0.0
75°	1.5	1.5	0.0	0.0	0.0
77.5°	3.0	1.5	1.5	0.0	0.0
80°	3.0	1.5	1.5	0.0	0.0
82.5°	3.0	1.5	1.5	0.0	0.0
85°	1.5	1.5	1.5	0.0	0.0
87.5°	3.0	1.5	1.5	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)