

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: P1312797

Luminaire Tested: P3SQAS20R559727D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312797
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: P3SQAS20R559727D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

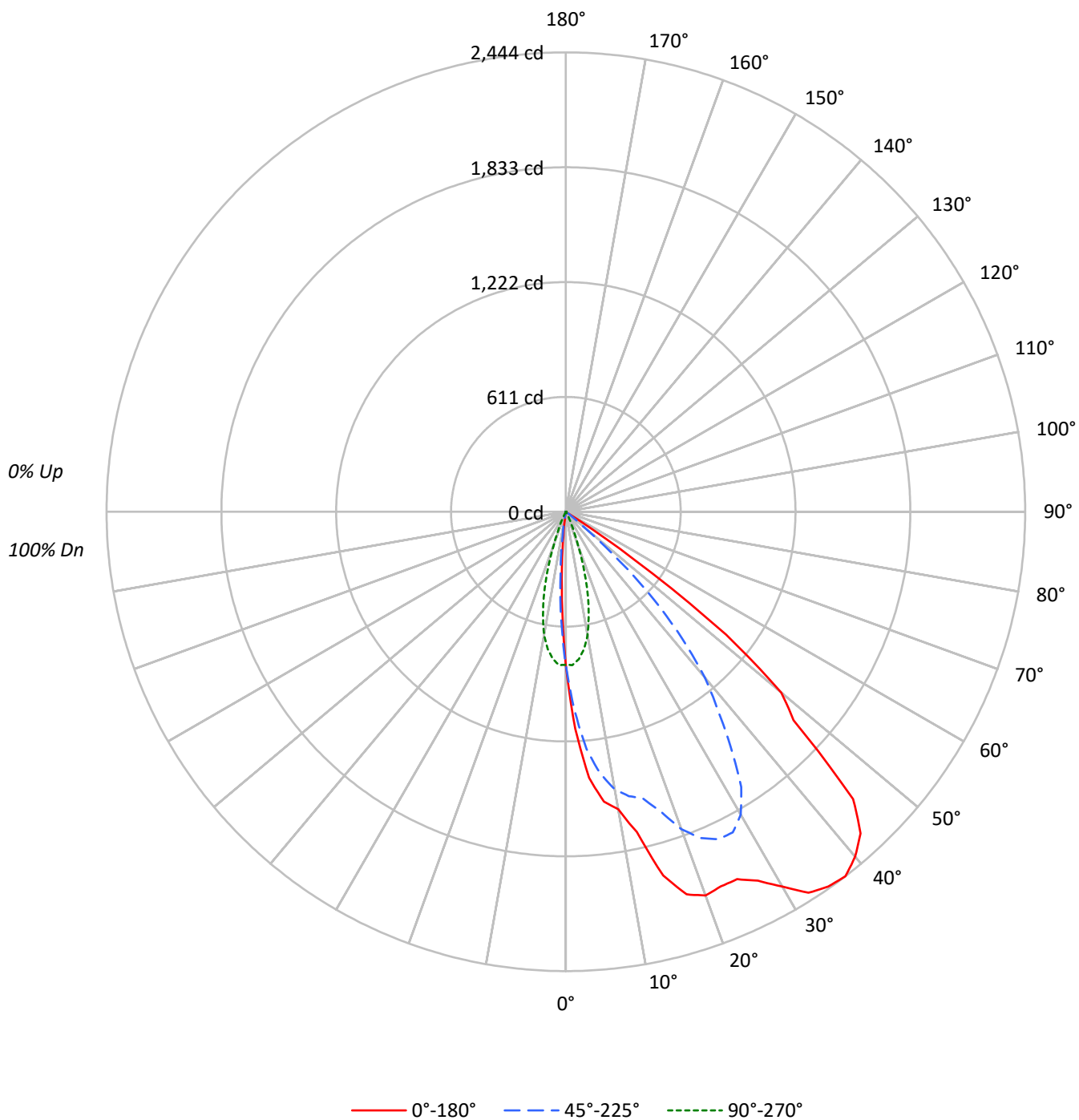
Lumens per Lamp: N/A
Luminaire Lumens: 1506.0 lumens
Efficiency: N/A
Efficacy: 52.3 lumens/watt
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1312797

CATALOG NUMBER: P3SQAS20R559727D010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1312797

CATALOG NUMBER: P3SQAS20R559727D010 E3SQCA301MB

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	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82		
3	98	91	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°	140155	140155	140155	140155	140155
5°	245646	218988	136040	56515	32536
10°	281154	262109	116330	6191	2221
15°	357309	281354	79735	1266	749
20°	398148	329163	35024	0	0
25°	409869	365212	9957	0	0
30°	457908	370109	1412	0	0
35°	511799	321360	0	0	0
40°	538356	258679	0	0	0
45°	526357	163380	0	0	0
50°	400798	33357	0	0	0
55°	131304	0	0	0	0
60°	0	0	0	0	0
65°	0	571	571	0	0
70°	0	705	705	0	0
75°	0	932	932	0	0
80°	0	1389	2777	1389	0
85°	0	2766	2766	2766	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 526357 cd/sqm

TEST NUMBER: P1312797

CATALOG NUMBER: P3SQAS20R559727D010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	4.9
10°-20°	217.9	14.5
20°-30°	354.4	23.5
30°-40°	421.1	28.0
40°-50°	344.4	22.9
50°-60°	91.3	6.1
60°-70°	0.6	0.0
70°-80°	0.9	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°	646.6	42.9
0°-40°	1067.8	70.9
0°-60°	1503.4	99.8
0°-90°	1506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1506.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	814	814	814	814	814	
5°	1421	1267	787	327	188	139
15°	2004	1578	447	7	4	560
25°	2157	1922	52	0	0	1016
35°	2434	1528	0	0	0	1514
45°	2161	671	0	0	0	1551
55°	437	0	0	0	0	492
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1312797

CATALOG NUMBER: P3SQAS20R559727D010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8	813.8
2.5°	1154.9	1146.4	1147.8	1143.5	1147.8	1129.4	1109.6	1091.2	1077.0	1057.2	936.9
5°	1420.9	1406.8	1402.5	1396.9	1391.2	1368.6	1350.2	1327.5	1300.6	1266.7	1045.9
7.5°	1555.4	1544.1	1538.4	1541.2	1528.5	1520.0	1495.9	1470.5	1442.2	1405.4	1128.0
10°	1607.7	1596.4	1595.0	1593.6	1592.2	1586.5	1575.2	1552.5	1527.1	1498.8	1174.7
12.5°	1745.0	1719.5	1702.6	1682.7	1658.7	1627.6	1602.1	1582.3	1572.4	1549.7	1195.9
15°	2004.0	1980.0	1961.6	1936.1	1890.8	1824.3	1763.4	1685.6	1617.6	1578.0	1187.4
17.5°	2134.2	2122.9	2107.3	2090.3	2059.2	2011.1	1948.8	1866.7	1780.4	1668.6	1146.4
20°	2172.4	2166.8	2155.4	2148.4	2127.1	2093.2	2050.7	1987.0	1906.4	1796.0	1082.7
22.5°	2156.9	2161.1	2166.8	2185.2	2188.0	2163.9	2124.3	2063.5	1981.4	1879.5	985.0
25°	2156.9	2154.0	2154.0	2192.2	2216.3	2205.0	2176.7	2121.5	2038.0	1921.9	864.7
27.5°	2212.1	2195.1	2159.7	2199.3	2238.9	2234.7	2209.2	2144.1	2050.7	1923.3	717.5
30°	2302.6	2265.8	2207.8	2244.6	2281.4	2265.8	2224.8	2141.3	2022.4	1861.1	537.8
32.5°	2403.1	2386.1	2356.4	2380.5	2374.8	2312.5	2238.9	2122.9	1964.4	1736.5	362.3
35°	2434.3	2437.1	2417.3	2413.0	2380.5	2316.8	2238.9	2070.5	1842.7	1528.5	215.1
37.5°	2444.2	2445.6	2414.4	2374.8	2326.7	2251.7	2158.3	1963.0	1617.6	1327.5	114.6
40°	2394.6	2393.2	2342.3	2294.1	2240.4	2166.8	2030.9	1736.5	1403.9	1150.6	41.0
42.5°	2321.0	2302.6	2254.5	2195.1	2130.0	2038.0	1825.7	1466.2	1220.0	921.3	2.8
45°	2161.1	2144.1	2105.9	2042.2	1970.0	1839.8	1504.4	1259.6	992.1	670.8	0.0
47.5°	1643.1	1634.6	1674.3	1682.7	1681.3	1532.7	1255.3	1027.5	728.9	390.6	0.0
50°	1495.9	1484.6	1445.0	1394.0	1303.5	1178.9	1006.3	761.4	427.4	124.5	0.0
52.5°	1074.2	1111.0	1119.5	1081.3	996.3	873.2	693.5	438.7	148.6	0.0	0.0
55°	437.3	414.7	431.7	452.9	469.9	431.7	319.8	155.7	1.4	0.0	0.0
57.5°	0.0	1.4	8.5	19.8	32.6	41.0	43.9	2.8	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	1.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.4	1.4	1.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	2.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
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: P1312797

CATALOG NUMBER: P3SQAS20R559727D010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	813.8	813.8	813.8	813.8	813.8
2.5°	816.6	690.6	568.9	502.4	469.9
5°	786.9	527.9	326.9	226.4	188.2
7.5°	737.4	362.3	130.2	53.8	38.2
10°	665.2	208.0	35.4	14.2	12.7
12.5°	561.9	94.8	12.7	9.9	9.9
15°	447.2	32.6	7.1	5.7	4.2
17.5°	314.2	8.5	2.8	0.0	0.0
20°	191.1	1.4	0.0	0.0	0.0
22.5°	106.1	0.0	0.0	0.0	0.0
25°	52.4	0.0	0.0	0.0	0.0
27.5°	22.6	0.0	0.0	0.0	0.0
30°	7.1	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°	1.4	0.0	0.0	0.0	0.0
65°	1.4	1.4	0.0	0.0	0.0
67.5°	1.4	1.4	0.0	0.0	0.0
70°	1.4	1.4	0.0	0.0	0.0
72.5°	1.4	1.4	0.0	0.0	0.0
75°	1.4	1.4	0.0	0.0	0.0
77.5°	2.8	1.4	1.4	0.0	0.0
80°	2.8	1.4	1.4	0.0	0.0
82.5°	2.8	1.4	1.4	0.0	0.0
85°	1.4	1.4	1.4	0.0	0.0
87.5°	2.8	1.4	1.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)