

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: P1306259

Luminaire Tested: P3SQAS20R459024D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R459024D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

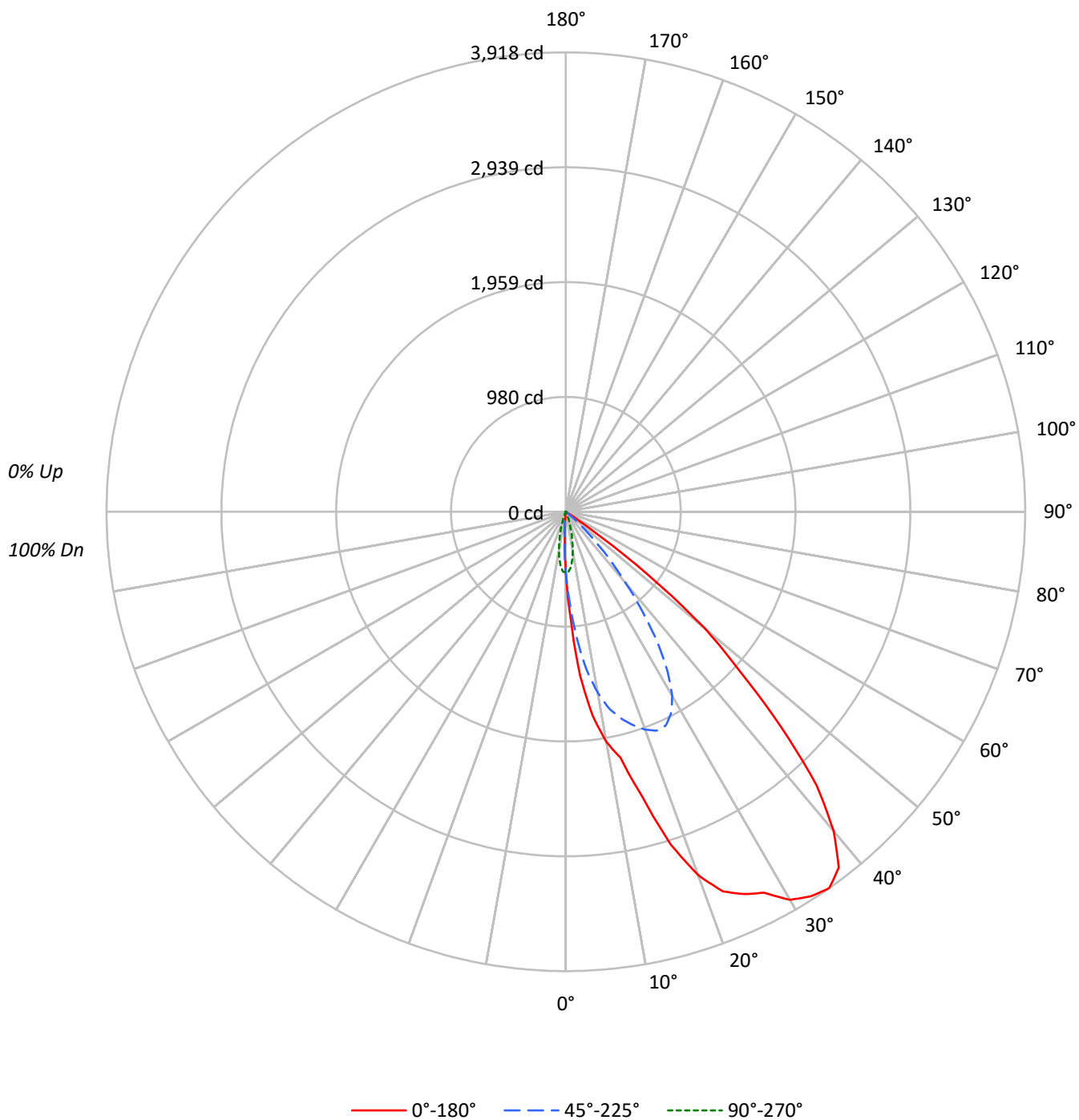
Lumens per Lamp: N/A
Luminaire Lumens: 1661.0 lumens
Efficiency: N/A
Efficacy: 57.7 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1306259

CATALOG NUMBER: P3SQAS20R459024D010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1306259

CATALOG NUMBER: P3SQAS20R459024D010 E3SQCA301MMS

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	98	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	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	63	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	59	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	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	88850	88850	88850	88850	88850
5°	242551	186607	82222	16493	6189
10°	348342	273774	59442	1556	1312
15°	448455	325643	31630	535	0
20°	604424	362336	12023	0	0
25°	683640	382752	3116	0	0
30°	759925	360842	298	0	0
35°	823782	287762	0	0	0
40°	798428	180666	0	0	0
45°	632938	86074	0	0	0
50°	414248	10798	0	0	0
55°	71192	0	0	0	0
60°	0	0	517	0	0
65°	0	611	611	0	0
70°	0	755	1511	0	0
75°	0	998	1996	0	0
80°	0	1488	2975	1488	0
85°	0	2964	5928	2964	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 632938 cd/sqm

TEST NUMBER: P1306259

CATALOG NUMBER: P3SQAS20R459024D010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	3.7
10°-20°	236.6	14.2
20°-30°	443.0	26.7
30°-40°	517.0	31.1
40°-50°	337.2	20.3
50°-60°	62.6	3.8
60°-70°	0.6	0.0
70°-80°	1.2	0.1
80°-90°	1.4	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°	741.0	44.6
0°-40°	1258.0	75.7
0°-60°	1657.8	99.8
0°-90°	1661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1661.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	516	516	516	516	516	
5°	1403	1079	476	95	36	150
15°	2515	1826	177	3	0	749
25°	3598	2014	16	0	0	1664
35°	3918	1369	0	0	0	2403
45°	2599	353	0	0	0	1976
55°	237	0	0	0	0	412
65°	0	2	2	0	0	0
75°	0	2	3	0	0	0
85°	0	2	3	2	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1306259

CATALOG NUMBER: P3SQAS20R459024D010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9
2.5°	909.5	916.9	902.0	896.1	876.7	881.1	848.3	834.9	814.0	779.8	763.4
5°	1403.0	1389.5	1377.6	1352.3	1337.4	1297.1	1252.4	1201.7	1140.6	1079.4	1009.4
7.5°	1754.8	1744.4	1739.9	1719.0	1689.2	1647.5	1589.3	1525.2	1446.2	1364.2	1258.3
10°	1991.9	1981.4	1963.6	1942.7	1918.8	1884.5	1827.9	1757.8	1671.3	1565.5	1441.7
12.5°	2146.9	2145.5	2115.6	2091.8	2062.0	2032.1	1974.0	1917.3	1832.4	1723.5	1583.4
15°	2515.2	2491.3	2452.6	2385.5	2302.0	2224.5	2130.5	2041.1	1948.6	1826.4	1669.8
17.5°	2974.4	2947.6	2882.0	2797.0	2662.8	2515.2	2354.2	2212.5	2073.9	1908.4	1723.5
20°	3297.9	3287.5	3232.3	3133.9	2990.8	2795.5	2583.8	2384.0	2188.7	1977.0	1748.9
22.5°	3505.2	3499.2	3476.9	3409.8	3263.7	3044.5	2771.6	2503.3	2267.7	2020.2	1741.4
25°	3597.6	3605.1	3608.1	3575.3	3457.5	3233.8	2910.3	2594.2	2312.4	2014.2	1684.8
27.5°	3663.2	3663.2	3675.1	3660.2	3541.0	3305.4	2964.0	2625.5	2297.5	1941.2	1565.5
30°	3821.3	3818.3	3825.7	3785.5	3620.0	3327.8	2940.1	2574.8	2212.5	1814.5	1394.0
32.5°	3889.8	3892.8	3891.3	3827.2	3634.9	3312.9	2882.0	2477.9	2056.0	1616.2	1167.4
35°	3918.2	3904.8	3849.6	3703.5	3460.5	3114.6	2718.0	2313.9	1836.8	1368.7	921.4
37.5°	3824.2	3785.5	3663.2	3463.4	3166.7	2834.3	2446.6	2020.2	1546.1	1073.5	693.3
40°	3551.4	3500.7	3347.1	3105.6	2834.3	2534.6	2126.1	1675.8	1209.1	803.6	486.0
42.5°	3165.2	3107.1	2941.6	2731.4	2483.9	2169.3	1762.3	1312.0	885.6	554.6	308.6
45°	2598.7	2565.9	2470.5	2293.1	2050.0	1723.5	1350.8	957.2	612.8	353.4	158.0
47.5°	2009.8	1968.0	1899.4	1777.2	1574.4	1264.3	945.3	650.0	393.6	174.4	32.8
50°	1546.1	1496.9	1413.4	1277.7	1066.0	843.9	612.8	405.5	199.8	40.3	1.5
52.5°	890.1	900.5	860.3	773.8	656.0	505.4	354.8	204.3	44.7	1.5	0.0
55°	237.1	256.4	250.5	269.9	237.1	199.8	147.6	38.8	3.0	0.0	0.0
57.5°	0.0	0.0	1.5	3.0	8.9	13.4	4.5	1.5	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	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	1.5	1.5	1.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
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: P1306259

CATALOG NUMBER: P3SQAS20R459024D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9
2.5°	726.1	694.8	656.0	512.9	386.2	277.3	216.2	199.8
5°	942.3	866.2	767.8	475.6	238.5	95.4	43.2	35.8
7.5°	1146.5	1034.7	857.3	416.0	120.8	23.9	11.9	10.4
10°	1304.6	1154.0	922.9	339.9	44.7	8.9	7.5	7.5
12.5°	1413.4	1230.0	946.7	257.9	16.4	4.5	4.5	3.0
15°	1476.0	1259.8	924.4	177.4	6.0	3.0	0.0	0.0
17.5°	1495.4	1247.9	864.7	111.8	1.5	0.0	0.0	0.0
20°	1479.0	1189.8	770.8	65.6	0.0	0.0	0.0	0.0
22.5°	1425.3	1098.8	657.5	35.8	0.0	0.0	0.0	0.0
25°	1325.4	970.6	524.8	16.4	0.0	0.0	0.0	0.0
27.5°	1162.9	805.1	395.1	6.0	0.0	0.0	0.0	0.0
30°	978.1	627.7	280.3	1.5	0.0	0.0	0.0	0.0
32.5°	763.4	462.2	180.4	0.0	0.0	0.0	0.0	0.0
35°	574.0	323.5	107.3	0.0	0.0	0.0	0.0	0.0
37.5°	399.6	204.3	56.7	0.0	0.0	0.0	0.0	0.0
40°	249.0	110.3	19.4	0.0	0.0	0.0	0.0	0.0
42.5°	138.7	38.8	1.5	0.0	0.0	0.0	0.0	0.0
45°	32.8	3.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
60°	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0
62.5°	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0
65°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
67.5°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
70°	1.5	1.5	1.5	3.0	1.5	0.0	0.0	0.0
72.5°	1.5	1.5	3.0	3.0	1.5	0.0	0.0	0.0
75°	1.5	1.5	3.0	3.0	1.5	0.0	0.0	0.0
77.5°	1.5	3.0	3.0	3.0	1.5	1.5	0.0	0.0
80°	1.5	3.0	3.0	3.0	3.0	1.5	0.0	0.0
82.5°	1.5	3.0	3.0	3.0	3.0	1.5	0.0	0.0
85°	1.5	3.0	3.0	3.0	1.5	1.5	0.0	0.0
87.5°	1.5	3.0	3.0	3.0	3.0	1.5	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)