

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: P1312779

Luminaire Tested: P3SQAS20R459727D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312779
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: P3SQAS20R459727D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

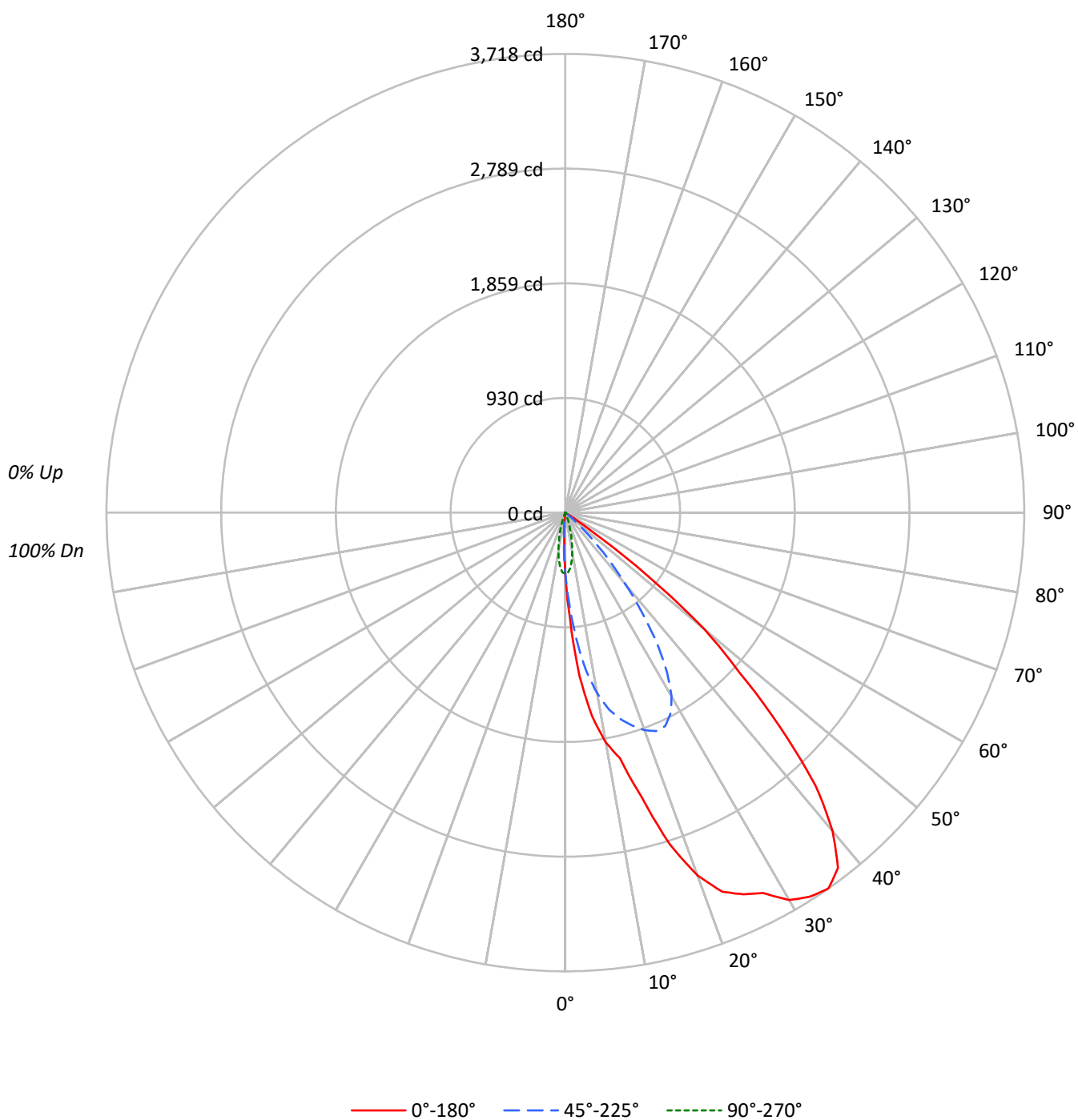
Lumens per Lamp: N/A
Luminaire Lumens: 1576.0 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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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	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°	84303	84303	84303	84303	84303
5°	230139	177064	78021	15646	5878
10°	330522	259766	56399	1486	1242
15°	425508	308973	30008	499	0
20°	573506	343788	11400	0	0
25°	648656	363179	2964	0	0
30°	721027	342367	278	0	0
35°	781628	273024	0	0	0
40°	757578	171426	0	0	0
45°	600545	81666	0	0	0
50°	393055	10235	0	0	0
55°	67529	0	0	0	0
60°	0	0	482	0	0
65°	0	571	571	0	0
70°	0	705	1410	0	0
75°	0	932	1863	0	0
80°	0	1389	2777	1389	0
85°	0	2766	5533	2766	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 600545 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	3.7
10°-20°	224.5	14.2
20°-30°	420.3	26.7
30°-40°	490.6	31.1
40°-50°	319.9	20.3
50°-60°	59.4	3.8
60°-70°	0.6	0.0
70°-80°	1.1	0.1
80°-90°	1.3	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°	703.1	44.6
0°-40°	1193.7	75.7
0°-60°	1573.0	99.8
0°-90°	1576.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1576.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	490	490	490	490	490	
5°	1331	1024	451	90	34	143
15°	2386	1733	168	3	0	711
25°	3414	1911	16	0	0	1579
35°	3718	1299	0	0	0	2280
45°	2466	335	0	0	0	1875
55°	225	0	0	0	0	391
65°	0	1	1	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	1	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5
2.5°	862.9	870.0	855.9	850.2	831.8	836.0	804.9	792.2	772.4	739.9	724.3
5°	1331.2	1318.4	1307.1	1283.1	1268.9	1230.7	1188.3	1140.2	1082.2	1024.2	957.7
7.5°	1665.0	1655.1	1650.9	1631.1	1602.8	1563.2	1508.0	1447.2	1372.2	1294.4	1194.0
10°	1890.0	1880.0	1863.1	1843.3	1820.6	1788.1	1734.3	1667.9	1585.8	1485.4	1368.0
12.5°	2037.1	2035.7	2007.4	1984.7	1956.4	1928.1	1873.0	1819.2	1738.6	1635.3	1502.3
15°	2386.5	2363.9	2327.1	2263.4	2184.2	2110.6	2021.5	1936.6	1848.9	1732.9	1584.4
17.5°	2822.2	2796.7	2734.5	2653.9	2526.5	2386.5	2233.7	2099.3	1967.8	1810.7	1635.3
20°	3129.2	3119.3	3066.9	2973.6	2837.8	2652.4	2451.6	2262.0	2076.7	1875.8	1659.4
22.5°	3325.8	3320.1	3298.9	3235.3	3096.6	2888.7	2629.8	2375.2	2151.7	1916.8	1652.3
25°	3413.5	3420.6	3423.4	3392.3	3280.5	3068.3	2761.4	2461.5	2194.1	1911.2	1598.5
27.5°	3475.8	3475.8	3487.1	3472.9	3359.8	3136.2	2812.3	2491.2	2180.0	1841.9	1485.4
30°	3625.7	3622.9	3630.0	3591.8	3434.7	3157.5	2789.7	2443.1	2099.3	1721.6	1322.7
32.5°	3690.8	3693.6	3692.2	3631.4	3448.9	3143.3	2734.5	2351.1	1950.8	1533.5	1107.7
35°	3717.7	3704.9	3652.6	3514.0	3283.4	2955.2	2578.9	2195.5	1742.8	1298.6	874.2
37.5°	3628.5	3591.8	3475.8	3286.2	3004.7	2689.2	2321.4	1916.8	1467.0	1018.5	657.8
40°	3369.7	3321.6	3175.9	2946.7	2689.2	2404.9	2017.3	1590.0	1147.3	762.5	461.2
42.5°	3003.3	2948.1	2791.1	2591.6	2356.8	2058.3	1672.1	1244.9	840.3	526.2	292.8
45°	2465.7	2434.6	2344.1	2175.7	1945.1	1635.3	1281.7	908.2	581.4	335.3	150.0
47.5°	1906.9	1867.3	1802.2	1686.2	1493.9	1199.6	896.9	616.8	373.5	165.5	31.1
50°	1467.0	1420.3	1341.1	1212.3	1011.5	800.7	581.4	384.8	189.6	38.2	1.4
52.5°	844.5	854.4	816.2	734.2	622.4	479.6	336.7	193.8	42.4	1.4	0.0
55°	224.9	243.3	237.7	256.0	224.9	189.6	140.0	36.8	2.8	0.0	0.0
57.5°	0.0	0.0	1.4	2.8	8.5	12.7	4.2	1.4	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	1.4	1.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	1.4	1.4	1.4	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5
2.5°	688.9	659.2	622.4	486.6	366.4	263.1	205.1	189.6
5°	894.0	821.9	728.5	451.3	226.3	90.5	41.0	34.0
7.5°	1087.9	981.8	813.4	394.7	114.6	22.6	11.3	9.9
10°	1237.8	1094.9	875.7	322.5	42.4	8.5	7.1	7.1
12.5°	1341.1	1167.1	898.3	244.7	15.6	4.2	4.2	2.8
15°	1400.5	1195.4	877.1	168.3	5.7	2.8	0.0	0.0
17.5°	1418.9	1184.0	820.5	106.1	1.4	0.0	0.0	0.0
20°	1403.3	1128.9	731.4	62.2	0.0	0.0	0.0	0.0
22.5°	1352.4	1042.6	623.9	34.0	0.0	0.0	0.0	0.0
25°	1257.6	920.9	498.0	15.6	0.0	0.0	0.0	0.0
27.5°	1103.4	763.9	374.9	5.7	0.0	0.0	0.0	0.0
30°	928.0	595.6	266.0	1.4	0.0	0.0	0.0	0.0
32.5°	724.3	438.5	171.2	0.0	0.0	0.0	0.0	0.0
35°	544.6	307.0	101.9	0.0	0.0	0.0	0.0	0.0
37.5°	379.1	193.8	53.8	0.0	0.0	0.0	0.0	0.0
40°	236.2	104.7	18.4	0.0	0.0	0.0	0.0	0.0
42.5°	131.6	36.8	1.4	0.0	0.0	0.0	0.0	0.0
45°	31.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.4	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	1.4	0.0	0.0	0.0	0.0
60°	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0
62.5°	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0
65°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0
67.5°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0
70°	1.4	1.4	1.4	2.8	1.4	0.0	0.0	0.0
72.5°	1.4	1.4	2.8	2.8	1.4	0.0	0.0	0.0
75°	1.4	1.4	2.8	2.8	1.4	0.0	0.0	0.0
77.5°	1.4	2.8	2.8	2.8	1.4	1.4	0.0	0.0
80°	1.4	2.8	2.8	2.8	2.8	1.4	0.0	0.0
82.5°	1.4	2.8	2.8	2.8	2.8	1.4	0.0	0.0
85°	1.4	2.8	2.8	2.8	1.4	1.4	0.0	0.0
87.5°	1.4	2.8	2.8	2.8	2.8	1.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)