

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: P1311699

Luminaire Tested: P3SQAS20R659050D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R659050D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 5000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

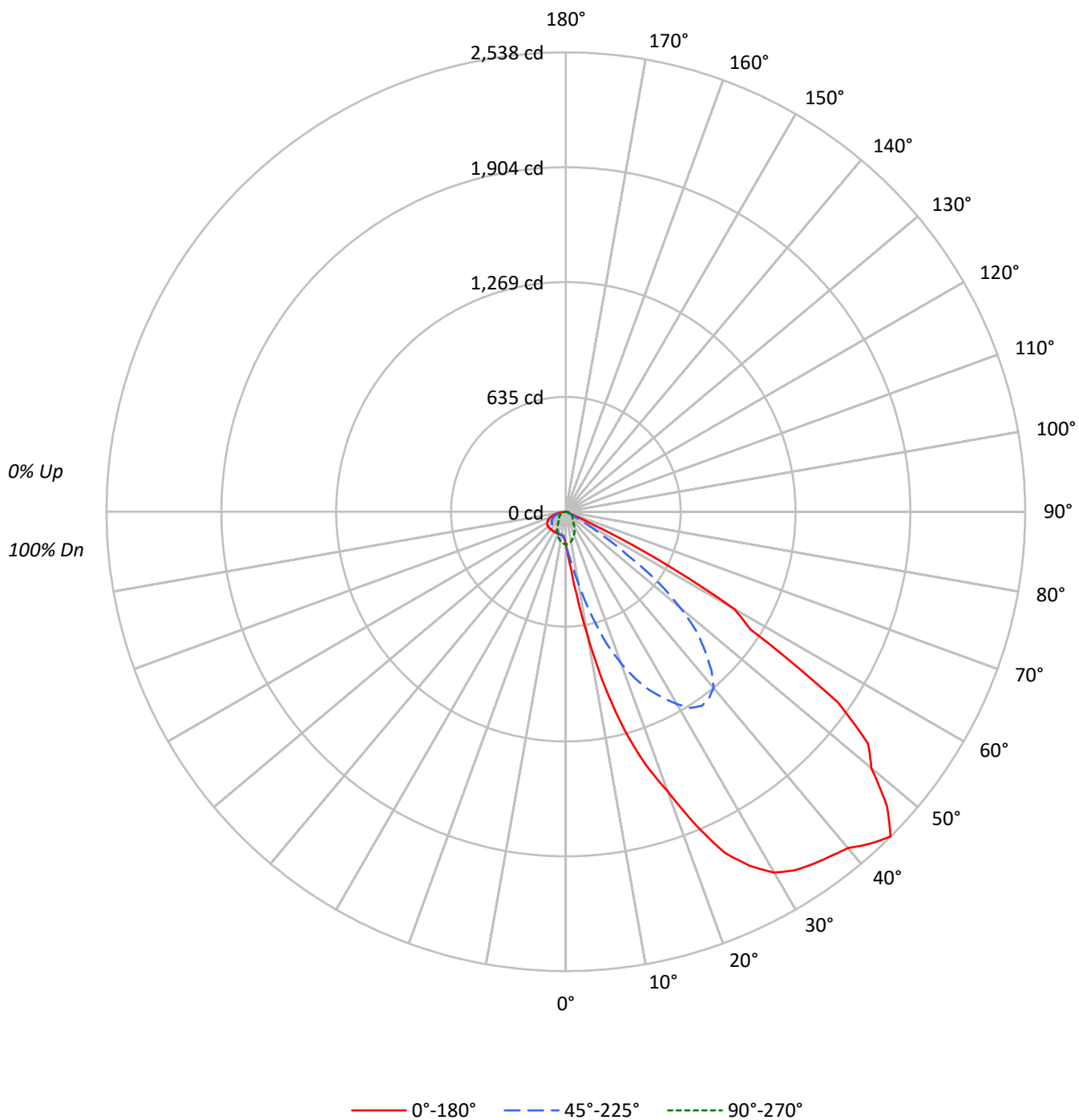
Lumens per Lamp: N/A
Luminaire Lumens: 1841.0 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	30845	30845	30845	30845	30845
5°	53939	44033	30323	24566	23615
10°	122031	71019	29047	22594	22927
15°	221821	114200	26994	22715	23375
20°	300755	163060	24357	22671	23679
25°	395312	205894	21397	22100	24209
30°	457749	244107	18355	22034	25335
35°	499858	275148	15516	22517	26785
40°	545303	285522	13692	23651	28642
45°	618179	264798	13030	25184	31029
50°	590520	221070	12861	26713	34134
55°	550378	124158	13302	28825	37683
60°	370692	26695	13364	30518	40679
65°	57174	6765	12796	31582	44378
70°	6496	6496	12085	32529	47384
75°	6122	6122	11046	31940	47910
80°	5455	7339	11009	29258	47606
85°	3557	7311	10868	29245	43868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 618179 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.7	1.2
10°-20°	117.1	6.4
20°-30°	275.0	14.9
30°-40°	415.5	22.6
40°-50°	477.6	25.9
50°-60°	379.2	20.6
60°-70°	113.6	6.2
70°-80°	30.9	1.7
80°-90°	10.4	0.6
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°	413.8	22.5
0°-40°	829.3	45.0
0°-60°	1686.2	91.6
0°-90°	1841.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1841.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	179	179	179	179	179	
5°	312	255	175	142	137	42
15°	1244	640	151	127	131	358
25°	2080	1084	113	116	127	950
35°	2378	1309	74	107	127	1492
45°	2538	1087	54	103	127	1885
55°	1833	414	44	96	126	1510
65°	140	17	31	78	109	315
75°	9	9	17	48	72	10
85°	2	4	6	15	22	3
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	179.1	179.1	179.1	179.1	179.1	179.1	179.1	179.1	179.1	179.1	179.1
2.5°	227.0	228.9	227.0	227.0	225.2	223.4	210.4	195.7	179.1	166.1	156.9
5°	312.0	313.8	308.3	308.3	304.6	299.0	254.7	212.3	175.4	155.1	142.1
7.5°	461.5	468.9	459.6	448.6	428.3	424.6	317.5	228.9	171.7	144.0	132.9
10°	697.8	692.2	683.0	660.8	625.8	609.1	406.1	245.5	166.1	136.6	129.2
12.5°	983.9	969.1	958.0	917.4	869.4	841.7	516.9	260.3	158.7	129.2	127.4
15°	1244.1	1233.1	1207.2	1168.5	1109.4	1087.2	640.5	269.5	151.4	123.7	127.4
17.5°	1463.8	1452.7	1438.0	1399.2	1338.3	1305.1	779.0	275.0	142.1	120.0	125.5
20°	1641.0	1633.6	1613.3	1581.9	1521.0	1489.6	889.7	275.0	132.9	116.3	123.7
22.5°	1869.9	1853.3	1827.4	1781.3	1705.6	1657.6	994.9	269.5	123.7	112.6	120.0
25°	2080.3	2069.3	2036.0	1980.7	1899.4	1851.4	1083.5	258.4	112.6	107.1	116.3
27.5°	2205.9	2198.5	2167.1	2109.9	2019.4	1982.5	1157.4	241.8	101.5	101.5	114.4
30°	2301.8	2287.1	2255.7	2200.3	2108.0	2063.7	1227.5	221.5	92.3	96.0	110.8
32.5°	2349.8	2344.3	2316.6	2268.6	2178.2	2128.3	1284.8	195.7	81.2	92.3	108.9
35°	2377.5	2372.0	2349.8	2303.7	2218.8	2170.8	1308.7	171.7	73.8	88.6	107.1
37.5°	2399.7	2394.1	2366.5	2320.3	2235.4	2185.6	1297.7	145.8	66.5	84.9	105.2
40°	2425.5	2405.2	2362.8	2316.6	2239.1	2191.1	1270.0	121.8	60.9	83.1	105.2
42.5°	2488.3	2418.1	2351.7	2309.2	2235.4	2180.0	1190.6	96.0	55.4	79.4	103.4
45°	2538.1	2414.4	2329.5	2296.3	2220.6	2157.9	1087.2	70.1	53.5	77.5	103.4
47.5°	2407.1	2331.4	2292.6	2274.2	2192.9	2124.6	980.2	48.0	51.7	75.7	101.5
50°	2204.0	2194.8	2180.0	2181.9	2108.0	2052.6	825.1	33.2	48.0	73.8	99.7
52.5°	2106.2	2095.1	2069.3	2050.8	1977.0	1929.0	653.5	25.8	46.1	72.0	97.8
55°	1833.0	1840.4	1812.7	1823.8	1801.6	1777.6	413.5	24.0	44.3	68.3	96.0
57.5°	1207.2	1244.1	1308.7	1386.3	1456.4	1504.4	223.4	24.0	40.6	66.5	92.3
60°	1076.2	1066.9	1065.1	1079.9	1111.2	1137.1	77.5	22.2	38.8	60.9	88.6
62.5°	588.8	585.2	640.5	734.7	790.0	795.6	22.2	22.2	35.1	57.2	83.1
65°	140.3	145.8	162.4	203.0	240.0	264.0	16.6	20.3	31.4	53.5	77.5
67.5°	22.2	24.0	24.0	29.5	33.2	33.2	14.8	18.5	27.7	48.0	72.0
70°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	16.6	24.0	42.5	64.6
72.5°	11.1	11.1	11.1	11.1	11.1	11.1	12.9	14.8	20.3	36.9	55.4
75°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	12.9	16.6	29.5	48.0
77.5°	7.4	7.4	7.4	7.4	7.4	7.4	9.2	11.1	14.8	24.0	38.8
80°	5.5	5.5	5.5	5.5	5.5	5.5	7.4	9.2	11.1	18.5	29.5
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	5.5	7.4	9.2	14.8	22.2
85°	1.8	1.8	1.8	1.8	3.7	3.7	3.7	5.5	5.5	9.2	14.8
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7	3.7	5.5	7.4
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):

	157.5°	180°
0°	179.1	179.1
2.5°	151.4	149.5
5°	136.6	136.6
7.5°	131.1	131.1
10°	129.2	131.1
12.5°	129.2	131.1
15°	129.2	131.1
17.5°	129.2	131.1
20°	127.4	129.2
22.5°	125.5	127.4
25°	123.7	127.4
27.5°	121.8	127.4
30°	121.8	127.4
32.5°	121.8	127.4
35°	120.0	127.4
37.5°	120.0	127.4
40°	120.0	127.4
42.5°	120.0	127.4
45°	120.0	127.4
47.5°	120.0	127.4
50°	120.0	127.4
52.5°	118.1	127.4
55°	118.1	125.5
57.5°	114.4	121.8
60°	110.8	118.1
62.5°	107.1	114.4
65°	101.5	108.9
67.5°	96.0	101.5
70°	86.8	94.1
72.5°	77.5	83.1
75°	66.5	72.0
77.5°	55.4	60.9
80°	44.3	48.0
82.5°	31.4	35.1
85°	20.3	22.2
87.5°	9.2	9.2
90°	0.0	0.0

(END OF REPORT)