

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: P1306262

Luminaire Tested: P3SQAS20R459024D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R459024D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

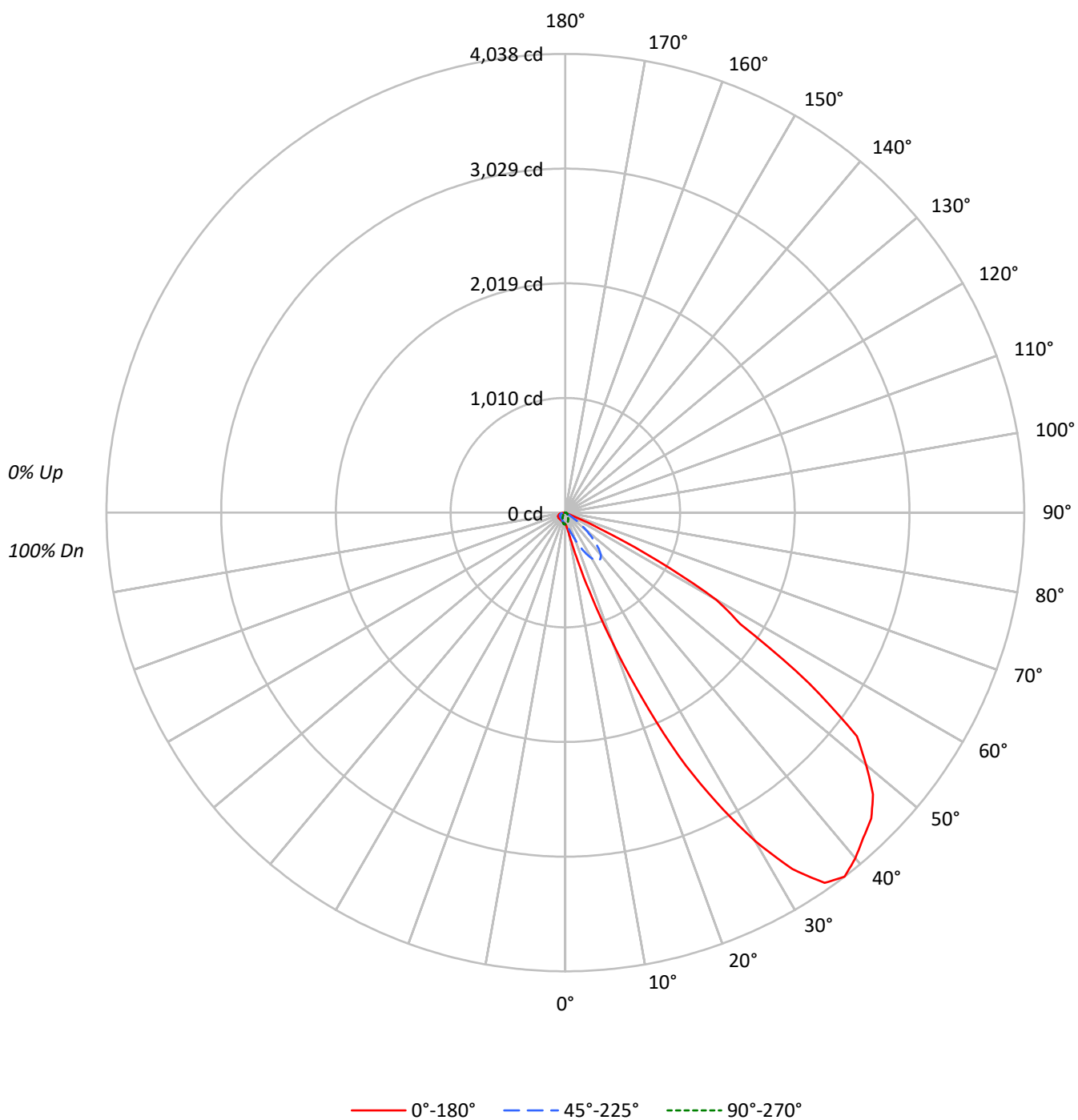
Lumens per Lamp: N/A
Luminaire Lumens: 1804.0 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	99		107	104	100	97		99	97	94		96	93	91		92	90	88
2	100	93	86	81		98	91	85	80		87	83	78		84	80	77		81	78	75
3	91	81	73	67		89	80	72	66		77	70	65		74	69	64		71	67	63
4	83	71	62	56		81	70	62	55		67	60	55		65	59	54		63	58	53
5	76	63	53	47		73	61	53	46		59	52	46		57	51	45		55	50	45
6	69	55	46	39		67	54	46	39		52	45	39		51	44	39		49	43	38
7	63	49	40	34		61	48	40	33		47	39	33		45	38	33		44	37	33
8	58	44	35	29		56	43	35	29		42	34	29		40	33	28		39	33	28
9	53	39	31	25		52	39	30	25		38	30	25		36	29	25		35	29	24
10	49	36	27	22		48	35	27	22		34	27	21		33	26	21		32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	17963	17963	17963	17963	17963
5°	21385	19847	17789	16493	16493
10°	34154	23207	16683	15634	15634
15°	85048	31095	15155	14620	15155
20°	224018	46442	13104	13929	14754
25°	449812	68828	11326	13036	14442
30°	663117	92194	9188	12747	14815
35°	836439	108129	7842	12531	15348
40°	892426	109240	7037	13062	16412
45°	927231	91116	6527	14151	17780
50°	925755	63500	6377	15165	19961
55°	786834	28195	6726	16995	21919
60°	528827	5649	6682	19013	25145
65°	140307	2445	6683	20661	28567
70°	3777	3021	6748	22508	32277
75°	2994	2994	6920	23822	36731
80°	2975	4463	7438	25092	41358
85°	2964	5928	11856	26479	41299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 951113 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.4	0.6
10°-20°	50.9	2.8
20°-30°	209.9	11.6
30°-40°	442.3	24.5
40°-50°	545.7	30.2
50°-60°	409.0	22.7
60°-70°	105.3	5.8
70°-80°	21.8	1.2
80°-90°	8.9	0.5
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°	271.1	15.0
0°-40°	713.4	39.5
0°-60°	1668.1	92.5
0°-90°	1804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1804.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	104	104	104	104	104	
5°	124	115	103	95	95	14
15°	477	174	85	82	85	174
25°	2367	362	60	69	76	1103
35°	3978	514	37	60	73	2424
45°	3807	374	27	58	73	2913
55°	2620	94	22	57	73	2263
65°	344	6	16	51	70	496
75°	4	4	10	36	55	5
85°	2	3	6	13	21	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3
2.5°	110.3	110.3	110.3	110.3	110.3	110.3	110.3	108.8	107.3	104.3	101.4
5°	123.7	122.2	122.2	122.2	120.7	119.2	119.2	114.8	108.8	102.9	98.4
7.5°	146.1	146.1	144.6	141.6	140.1	137.1	134.2	122.2	108.8	99.9	93.9
10°	195.3	192.3	187.8	184.8	177.4	166.9	159.5	132.7	107.3	95.4	90.9
12.5°	292.2	298.1	283.2	268.3	247.4	228.1	204.2	150.6	107.3	90.9	86.5
15°	477.0	487.4	459.1	429.3	378.6	330.9	286.2	174.4	104.3	85.0	80.5
17.5°	779.6	793.0	745.3	675.2	596.2	500.8	418.9	207.2	101.4	79.0	76.0
20°	1222.3	1220.8	1128.4	1040.4	888.4	748.3	594.8	253.4	96.9	71.5	71.5
22.5°	1766.4	1772.3	1659.0	1501.0	1284.9	1059.8	815.4	307.1	90.9	65.6	67.1
25°	2367.1	2316.4	2182.2	1990.0	1714.2	1402.7	1080.7	362.2	85.0	59.6	62.6
27.5°	2867.9	2818.7	2665.2	2437.1	2140.5	1770.8	1350.5	417.4	77.5	53.7	58.1
30°	3334.5	3271.9	3087.0	2829.2	2475.9	2076.4	1603.9	463.6	68.6	46.2	53.7
32.5°	3719.1	3662.4	3452.2	3152.6	2768.0	2338.8	1818.5	499.4	59.6	41.7	50.7
35°	3978.4	3920.3	3726.5	3397.1	2978.2	2529.6	1992.9	514.3	52.2	37.3	49.2
37.5°	4038.0	4006.7	3868.1	3559.6	3122.8	2651.8	2104.7	509.8	43.2	34.3	46.2
40°	3969.5	3976.9	3911.3	3655.0	3200.3	2704.0	2150.9	485.9	35.8	31.3	44.7
42.5°	3881.5	3900.9	3896.4	3693.7	3233.1	2706.9	2131.6	438.2	28.3	28.3	43.2
45°	3807.0	3826.4	3853.2	3677.3	3210.8	2668.2	2070.4	374.1	20.9	26.8	43.2
47.5°	3671.4	3692.2	3731.0	3546.1	3097.5	2568.3	1960.1	304.1	14.9	25.3	41.7
50°	3455.2	3465.6	3455.2	3248.0	2879.8	2407.3	1781.3	237.0	10.4	23.8	41.7
52.5°	3233.1	3212.2	3125.8	2863.4	2534.0	2152.4	1556.2	168.4	7.5	22.4	40.2
55°	2620.5	2587.7	2523.6	2362.6	2174.8	1839.4	1258.1	93.9	7.5	22.4	38.8
57.5°	1826.0	1843.9	1866.2	1833.4	1747.0	1448.9	955.5	41.7	7.5	20.9	38.8
60°	1535.3	1520.4	1521.9	1501.0	1357.9	1056.8	657.4	16.4	7.5	19.4	37.3
62.5°	916.7	927.2	946.5	951.0	809.4	590.3	344.3	7.5	7.5	17.9	35.8
65°	344.3	360.7	316.0	274.3	217.6	159.5	80.5	6.0	8.9	16.4	32.8
67.5°	10.4	11.9	14.9	13.4	13.4	11.9	8.9	6.0	8.9	14.9	31.3
70°	7.5	7.5	7.5	7.5	7.5	6.0	6.0	6.0	7.5	13.4	28.3
72.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.5	11.9	25.3
75°	4.5	6.0	4.5	4.5	4.5	4.5	4.5	4.5	7.5	10.4	20.9
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.0	8.9	17.9
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	6.0	7.5	14.9
82.5°	3.0	3.0	3.0	1.5	3.0	3.0	3.0	3.0	6.0	6.0	11.9
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	4.5	6.0	7.5
87.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	3.0	4.5	4.5	4.5
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):

	135°	157.5°	180°
0°	104.3	104.3	104.3
2.5°	98.4	98.4	98.4
5°	95.4	95.4	95.4
7.5°	92.4	92.4	92.4
10°	89.4	89.4	89.4
12.5°	86.5	86.5	87.9
15°	82.0	85.0	85.0
17.5°	79.0	82.0	83.5
20°	76.0	79.0	80.5
22.5°	71.5	76.0	79.0
25°	68.6	74.5	76.0
27.5°	65.6	73.0	76.0
30°	64.1	71.5	74.5
32.5°	61.1	70.1	73.0
35°	59.6	70.1	73.0
37.5°	59.6	68.6	73.0
40°	58.1	68.6	73.0
42.5°	58.1	68.6	73.0
45°	58.1	68.6	73.0
47.5°	56.6	68.6	74.5
50°	56.6	70.1	74.5
52.5°	56.6	70.1	74.5
55°	56.6	70.1	73.0
57.5°	55.2	68.6	73.0
60°	55.2	68.6	73.0
62.5°	52.2	67.1	71.5
65°	50.7	65.6	70.1
67.5°	47.7	64.1	67.1
70°	44.7	59.6	64.1
72.5°	40.2	56.6	61.1
75°	35.8	52.2	55.2
77.5°	31.3	46.2	49.2
80°	25.3	38.8	41.7
82.5°	19.4	29.8	31.3
85°	13.4	19.4	20.9
87.5°	6.0	8.9	10.4
90°	0.0	0.0	0.0

(END OF REPORT)