

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: P1312783

Luminaire Tested: P3SQAS20R459727D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312783
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: P3SQAS20R459727D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

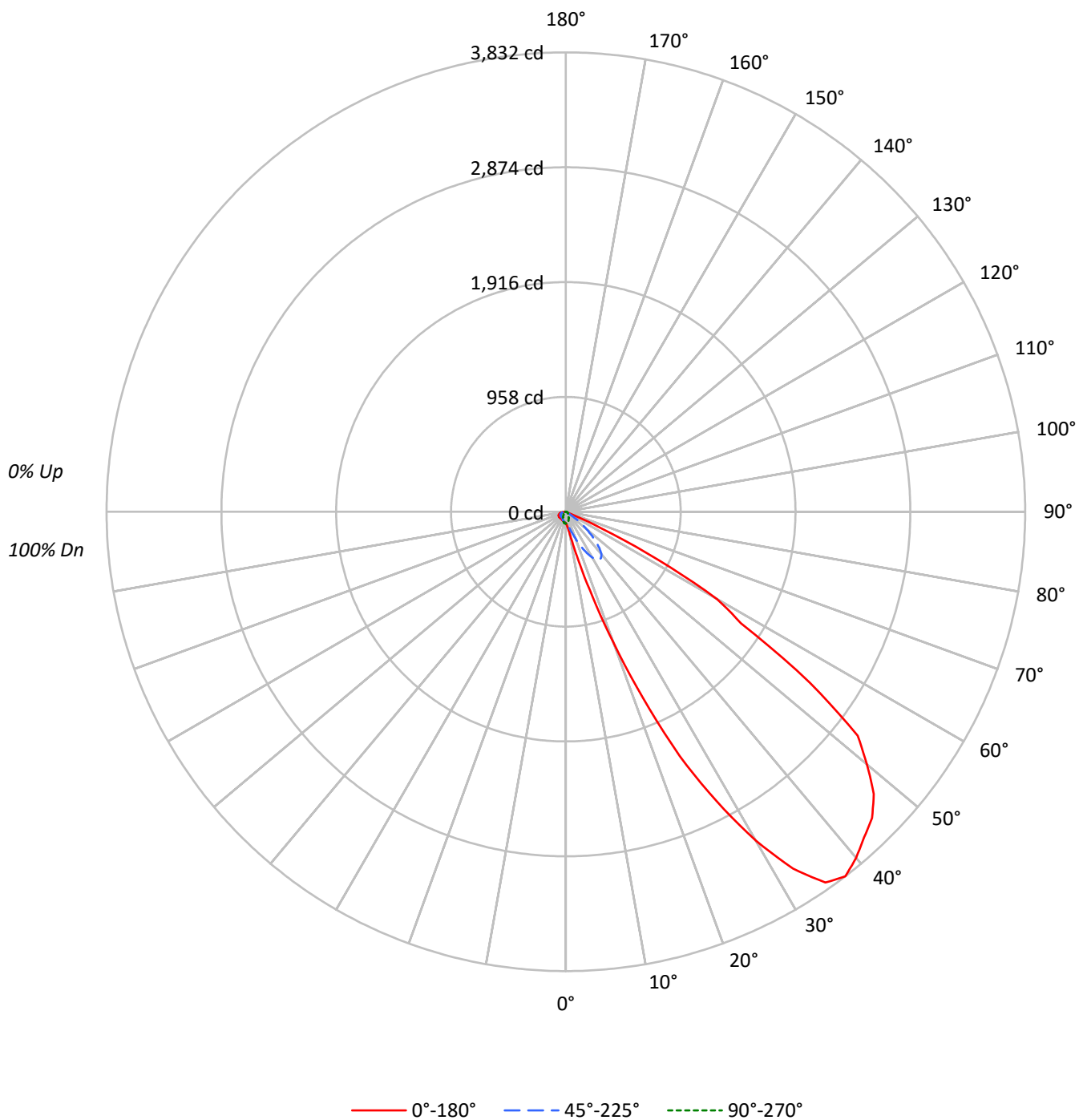
Lumens per Lamp: N/A
Luminaire Lumens: 1712.0 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	107	104	100	97	99	97	94		96	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81	78	75	73
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	58	53	51
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44	37	33	31
8	58	44	35	29	56	43	35	29	42	34	29		40	33	28		39	33	28	26
9	53	39	31	25	52	39	30	25	38	30	25		36	29	25		35	29	24	22
10	49	36	27	22	48	35	27	22	34	27	21		33	26	21		32	26	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	17050	17050	17050	17050	17050
5°	20296	18827	16873	15646	15646
10°	32405	22017	15827	14847	14847
15°	80716	29508	14371	13872	14371
20°	212600	44078	12444	13214	14002
25°	426876	65312	10756	12371	13701
30°	629290	87481	8730	12091	14060
35°	793780	102600	7443	11900	14570
40°	846900	103687	6677	12410	15580
45°	879932	86488	6211	13444	16879
50°	878545	60258	6055	14415	18943
55°	746689	26753	6366	16154	20808
60°	501857	5373	6338	18014	23870
65°	133175	2323	6357	19601	27100
70°	3575	2870	6395	21350	30616
75°	2795	2795	6588	22624	34801
80°	2777	4166	7042	23803	39275
85°	2766	5533	11263	25096	39125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 902601 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.8	0.6
10°-20°	48.3	2.8
20°-30°	199.2	11.6
30°-40°	419.7	24.5
40°-50°	517.9	30.2
50°-60°	388.1	22.7
60°-70°	99.9	5.8
70°-80°	20.7	1.2
80°-90°	8.4	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°	257.3	15.0
0°-40°	677.0	39.5
0°-60°	1583.0	92.5
0°-90°	1712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1712.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	99	99	99	99	99	
5°	117	109	98	90	90	13
15°	453	166	81	78	81	166
25°	2246	344	57	65	72	1047
35°	3776	488	35	57	69	2301
45°	3613	355	26	55	69	2765
55°	2487	89	21	54	69	2147
65°	327	6	16	48	66	471
75°	4	4	10	34	52	5
85°	1	3	6	13	20	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°	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
2.5°	104.7	104.7	104.7	104.7	104.7	104.7	104.7	103.3	101.9	99.0	96.2
5°	117.4	116.0	116.0	116.0	114.6	113.2	113.2	108.9	103.3	97.6	93.4
7.5°	138.6	138.6	137.2	134.4	133.0	130.1	127.3	116.0	103.3	94.8	89.1
10°	185.3	182.5	178.2	175.4	168.3	158.4	151.4	125.9	101.9	90.5	86.3
12.5°	277.3	282.9	268.8	254.6	234.8	216.4	193.8	142.9	101.9	86.3	82.0
15°	452.7	462.6	435.7	407.4	359.3	314.0	271.6	165.5	99.0	80.6	76.4
17.5°	739.8	752.6	707.3	640.8	565.8	475.3	397.5	196.6	96.2	75.0	72.1
20°	1160.0	1158.5	1070.8	987.4	843.1	710.1	564.4	240.5	91.9	67.9	67.9
22.5°	1676.3	1681.9	1574.4	1424.5	1219.4	1005.8	773.8	291.4	86.3	62.2	63.7
25°	2246.4	2198.3	2071.0	1888.5	1626.8	1331.1	1025.6	343.7	80.6	56.6	59.4
27.5°	2721.7	2675.0	2529.3	2312.8	2031.3	1680.5	1281.6	396.1	73.6	50.9	55.2
30°	3164.4	3105.0	2929.6	2684.9	2349.6	1970.5	1522.1	439.9	65.1	43.9	50.9
32.5°	3529.4	3475.6	3276.2	2991.8	2626.9	2219.5	1725.8	473.9	56.6	39.6	48.1
35°	3775.5	3720.4	3536.5	3223.8	2826.3	2400.5	1891.3	488.0	49.5	35.4	46.7
37.5°	3832.1	3802.4	3670.8	3378.0	2963.6	2516.5	1997.4	483.8	41.0	32.5	43.9
40°	3767.0	3774.1	3711.9	3468.6	3037.1	2566.1	2041.2	461.2	34.0	29.7	42.4
42.5°	3683.6	3702.0	3697.7	3505.3	3068.2	2568.9	2022.9	415.9	26.9	26.9	41.0
45°	3612.8	3631.2	3656.7	3489.8	3047.0	2532.1	1964.9	355.1	19.8	25.5	41.0
47.5°	3484.1	3503.9	3540.7	3365.3	2939.5	2437.3	1860.2	288.6	14.1	24.0	39.6
50°	3279.0	3288.9	3279.0	3082.4	2733.0	2284.6	1690.4	224.9	9.9	22.6	39.6
52.5°	3068.2	3048.4	2966.4	2717.4	2404.8	2042.7	1476.8	159.8	7.1	21.2	38.2
55°	2486.8	2455.7	2394.9	2242.1	2063.9	1745.6	1193.9	89.1	7.1	21.2	36.8
57.5°	1732.9	1749.8	1771.1	1739.9	1657.9	1375.0	906.7	39.6	7.1	19.8	36.8
60°	1457.0	1442.9	1444.3	1424.5	1288.7	1002.9	623.8	15.6	7.1	18.4	35.4
62.5°	870.0	879.9	898.3	902.5	768.1	560.2	326.8	7.1	7.1	17.0	34.0
65°	326.8	342.3	299.9	260.3	206.5	151.4	76.4	5.7	8.5	15.6	31.1
67.5°	9.9	11.3	14.1	12.7	12.7	11.3	8.5	5.7	8.5	14.1	29.7
70°	7.1	7.1	7.1	7.1	7.1	5.7	5.7	5.7	7.1	12.7	26.9
72.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	7.1	11.3	24.0
75°	4.2	5.7	4.2	4.2	4.2	4.2	4.2	4.2	7.1	9.9	19.8
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.7	8.5	17.0
80°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	5.7	7.1	14.1
82.5°	2.8	2.8	2.8	1.4	2.8	2.8	2.8	2.8	5.7	5.7	11.3
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.2	5.7	7.1
87.5°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	2.8	4.2	4.2	4.2
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°	99.0	99.0	99.0
2.5°	93.4	93.4	93.4
5°	90.5	90.5	90.5
7.5°	87.7	87.7	87.7
10°	84.9	84.9	84.9
12.5°	82.0	82.0	83.5
15°	77.8	80.6	80.6
17.5°	75.0	77.8	79.2
20°	72.1	75.0	76.4
22.5°	67.9	72.1	75.0
25°	65.1	70.7	72.1
27.5°	62.2	69.3	72.1
30°	60.8	67.9	70.7
32.5°	58.0	66.5	69.3
35°	56.6	66.5	69.3
37.5°	56.6	65.1	69.3
40°	55.2	65.1	69.3
42.5°	55.2	65.1	69.3
45°	55.2	65.1	69.3
47.5°	53.8	65.1	70.7
50°	53.8	66.5	70.7
52.5°	53.8	66.5	70.7
55°	53.8	66.5	69.3
57.5°	52.3	65.1	69.3
60°	52.3	65.1	69.3
62.5°	49.5	63.7	67.9
65°	48.1	62.2	66.5
67.5°	45.3	60.8	63.7
70°	42.4	56.6	60.8
72.5°	38.2	53.8	58.0
75°	34.0	49.5	52.3
77.5°	29.7	43.9	46.7
80°	24.0	36.8	39.6
82.5°	18.4	28.3	29.7
85°	12.7	18.4	19.8
87.5°	5.7	8.5	9.9
90°	0.0	0.0	0.0

(END OF REPORT)