

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: P1317305

Luminaire Tested: P3SQAS17R459830DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317305
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: P3SQAS17R459830DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

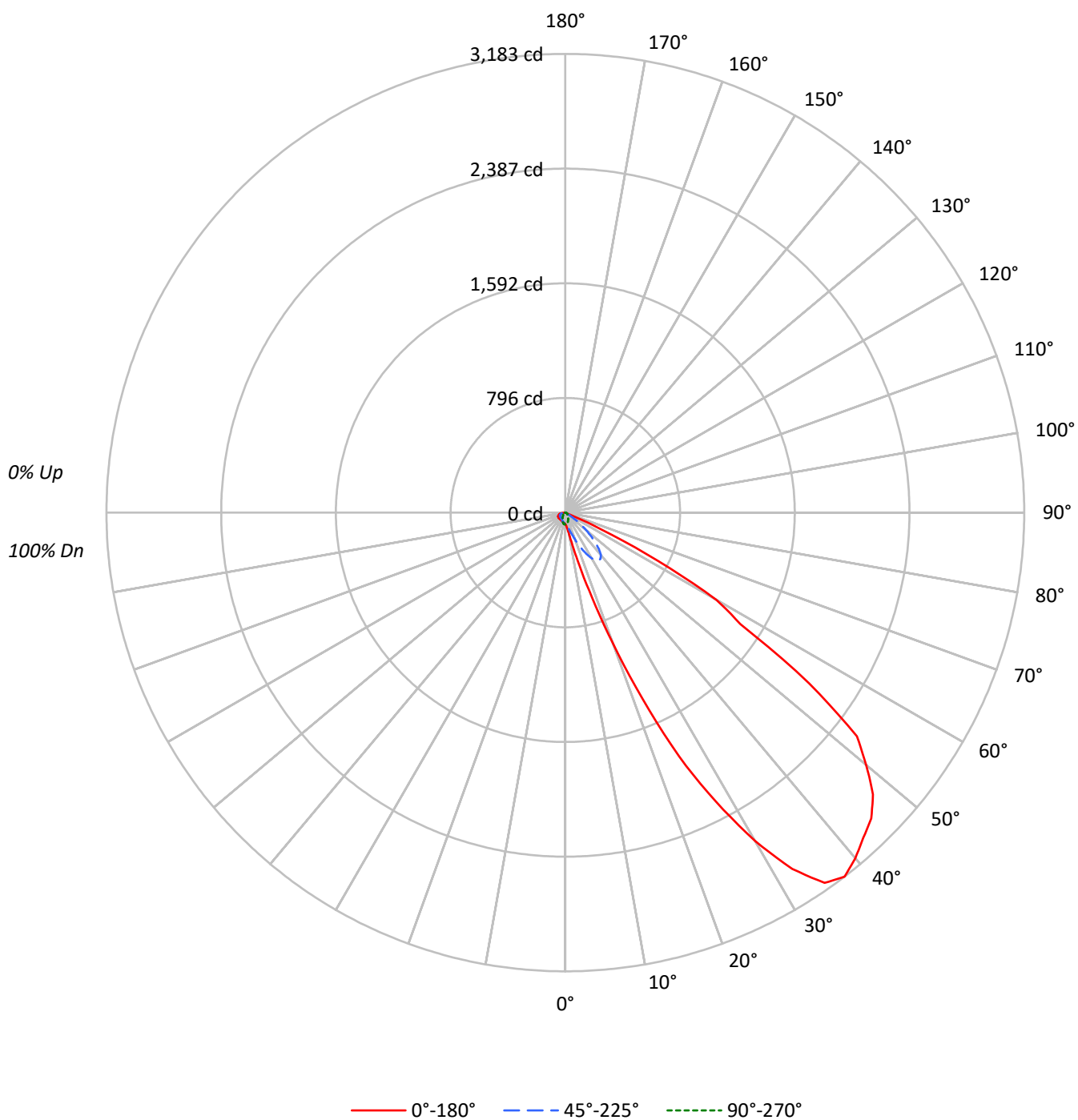
Lumens per Lamp: N/A
Luminaire Lumens: 1421.9 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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: P1317305

CATALOG NUMBER: P3SQAS17R459830DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1317305

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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°	14157	14157	14157	14157	14157
5°	16856	15646	14021	13001	13001
10°	26914	18292	13151	12329	12329
15°	67040	24516	11946	11518	11946
20°	176586	36600	10337	10978	11620
25°	354552	54253	8931	10261	11383
30°	522698	72665	7239	10043	11673
35°	659328	85233	6181	9882	12110
40°	703441	86106	5553	10297	12950
45°	730898	71826	5139	11155	14029
50°	729737	50049	5037	11950	15728
55°	620219	22219	5285	13392	17295
60°	416848	4443	5270	14983	19840
65°	110599	1915	5257	16260	22495
70°	2971	2367	5338	17725	25429
75°	2329	2329	5456	18765	28946
80°	2281	3471	5852	19836	32630
85°	2371	4545	9287	20946	32407

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 749699 cd/sqm

TEST NUMBER: P1317305

CATALOG NUMBER: P3SQAS17R459830DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.2	0.6
10°-20°	40.1	2.8
20°-30°	165.4	11.6
30°-40°	348.6	24.5
40°-50°	430.1	30.2
50°-60°	322.4	22.7
60°-70°	83.0	5.8
70°-80°	17.2	1.2
80°-90°	7.0	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°	213.7	15.0
0°-40°	562.3	39.5
0°-60°	1314.8	92.5
0°-90°	1421.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1421.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	82	82	82	82	82	
5°	98	90	81	75	75	11
15°	376	138	67	65	67	138
25°	1866	286	47	54	60	869
35°	3136	405	29	47	58	1911
45°	3001	295	21	46	58	2296
55°	2066	74	18	45	58	1784
65°	271	5	13	40	55	391
75°	4	4	8	28	44	4
85°	1	2	5	11	16	1
90°	0	0	0	0	0	

TEST NUMBER: P1317305

CATALOG NUMBER: P3SQAS17R459830DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
2.5°	86.9	86.9	86.9	86.9	86.9	86.9	86.9	85.8	84.6	82.2	79.9
5°	97.5	96.3	96.3	96.3	95.2	94.0	94.0	90.5	85.8	81.1	77.5
7.5°	115.1	115.1	114.0	111.6	110.4	108.1	105.7	96.3	85.8	78.7	74.0
10°	153.9	151.6	148.0	145.7	139.8	131.6	125.7	104.6	84.6	75.2	71.7
12.5°	230.3	235.0	223.2	211.5	195.0	179.8	161.0	118.7	84.6	71.7	68.1
15°	376.0	384.2	361.9	338.4	298.4	260.8	225.6	137.5	82.2	67.0	63.4
17.5°	614.5	625.1	587.5	532.3	470.0	394.8	330.2	163.3	79.9	62.3	59.9
20°	963.5	962.3	889.4	820.1	700.3	589.8	468.8	199.7	76.4	56.4	56.4
22.5°	1392.3	1397.0	1307.7	1183.2	1012.8	835.4	642.7	242.0	71.7	51.7	52.9
25°	1865.8	1825.9	1720.1	1568.6	1351.2	1105.6	851.8	285.5	67.0	47.0	49.3
27.5°	2260.6	2221.9	2100.8	1921.1	1687.2	1395.9	1064.5	329.0	61.1	42.3	45.8
30°	2628.4	2579.0	2433.4	2230.1	1951.6	1636.7	1264.3	365.4	54.0	36.4	42.3
32.5°	2931.5	2886.9	2721.2	2485.0	2181.9	1843.5	1433.5	393.6	47.0	32.9	39.9
35°	3136.0	3090.2	2937.4	2677.7	2347.6	1993.9	1570.9	405.4	41.1	29.4	38.8
37.5°	3183.0	3158.3	3049.0	2805.8	2461.5	2090.3	1659.0	401.8	34.1	27.0	36.4
40°	3128.9	3134.8	3083.1	2881.0	2522.6	2131.4	1695.5	383.0	28.2	24.7	35.2
42.5°	3059.6	3074.9	3071.4	2911.6	2548.5	2133.7	1680.2	345.4	22.3	22.3	34.1
45°	3000.9	3016.1	3037.3	2898.6	2530.9	2103.2	1632.0	294.9	16.4	21.1	34.1
47.5°	2893.9	2910.4	2940.9	2795.2	2441.6	2024.5	1545.1	239.7	11.7	20.0	32.9
50°	2723.6	2731.8	2723.6	2560.2	2270.0	1897.6	1404.1	186.8	8.2	18.8	32.9
52.5°	2548.5	2532.0	2463.9	2257.1	1997.4	1696.6	1226.7	132.8	5.9	17.6	31.7
55°	2065.6	2039.7	1989.2	1862.3	1714.3	1449.9	991.7	74.0	5.9	17.6	30.5
57.5°	1439.3	1453.4	1471.1	1445.2	1377.1	1142.1	753.2	32.9	5.9	16.4	30.5
60°	1210.2	1198.5	1199.6	1183.2	1070.4	833.0	518.2	12.9	5.9	15.3	29.4
62.5°	722.6	730.8	746.1	749.6	638.0	465.3	271.4	5.9	5.9	14.1	28.2
65°	271.4	284.3	249.1	216.2	171.5	125.7	63.4	4.7	7.0	12.9	25.8
67.5°	8.2	9.4	11.7	10.6	10.6	9.4	7.0	4.7	7.0	11.7	24.7
70°	5.9	5.9	5.9	5.9	5.9	4.7	4.7	4.7	5.9	10.6	22.3
72.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.9	9.4	20.0
75°	3.5	4.7	3.5	3.5	3.5	3.5	3.5	3.5	5.9	8.2	16.4
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.7	7.0	14.1
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.5	4.7	5.9	11.7
82.5°	2.3	2.3	2.3	1.2	2.3	2.3	2.3	2.3	4.7	4.7	9.4
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	3.5	4.7	5.9
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	2.3	3.5	3.5	3.5
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: P1317305

CATALOG NUMBER: P3SQAS17R459830DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	82.2	82.2	82.2
2.5°	77.5	77.5	77.5
5°	75.2	75.2	75.2
7.5°	72.8	72.8	72.8
10°	70.5	70.5	70.5
12.5°	68.1	68.1	69.3
15°	64.6	67.0	67.0
17.5°	62.3	64.6	65.8
20°	59.9	62.3	63.4
22.5°	56.4	59.9	62.3
25°	54.0	58.7	59.9
27.5°	51.7	57.6	59.9
30°	50.5	56.4	58.7
32.5°	48.2	55.2	57.6
35°	47.0	55.2	57.6
37.5°	47.0	54.0	57.6
40°	45.8	54.0	57.6
42.5°	45.8	54.0	57.6
45°	45.8	54.0	57.6
47.5°	44.6	54.0	58.7
50°	44.6	55.2	58.7
52.5°	44.6	55.2	58.7
55°	44.6	55.2	57.6
57.5°	43.5	54.0	57.6
60°	43.5	54.0	57.6
62.5°	41.1	52.9	56.4
65°	39.9	51.7	55.2
67.5°	37.6	50.5	52.9
70°	35.2	47.0	50.5
72.5°	31.7	44.6	48.2
75°	28.2	41.1	43.5
77.5°	24.7	36.4	38.8
80°	20.0	30.5	32.9
82.5°	15.3	23.5	24.7
85°	10.6	15.3	16.4
87.5°	4.7	7.0	8.2
90°	0.0	0.0	0.0

(END OF REPORT)