

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: P1310442

Luminaire Tested: P3SQAS17R459040DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310442
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: P3SQAS17R459040DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

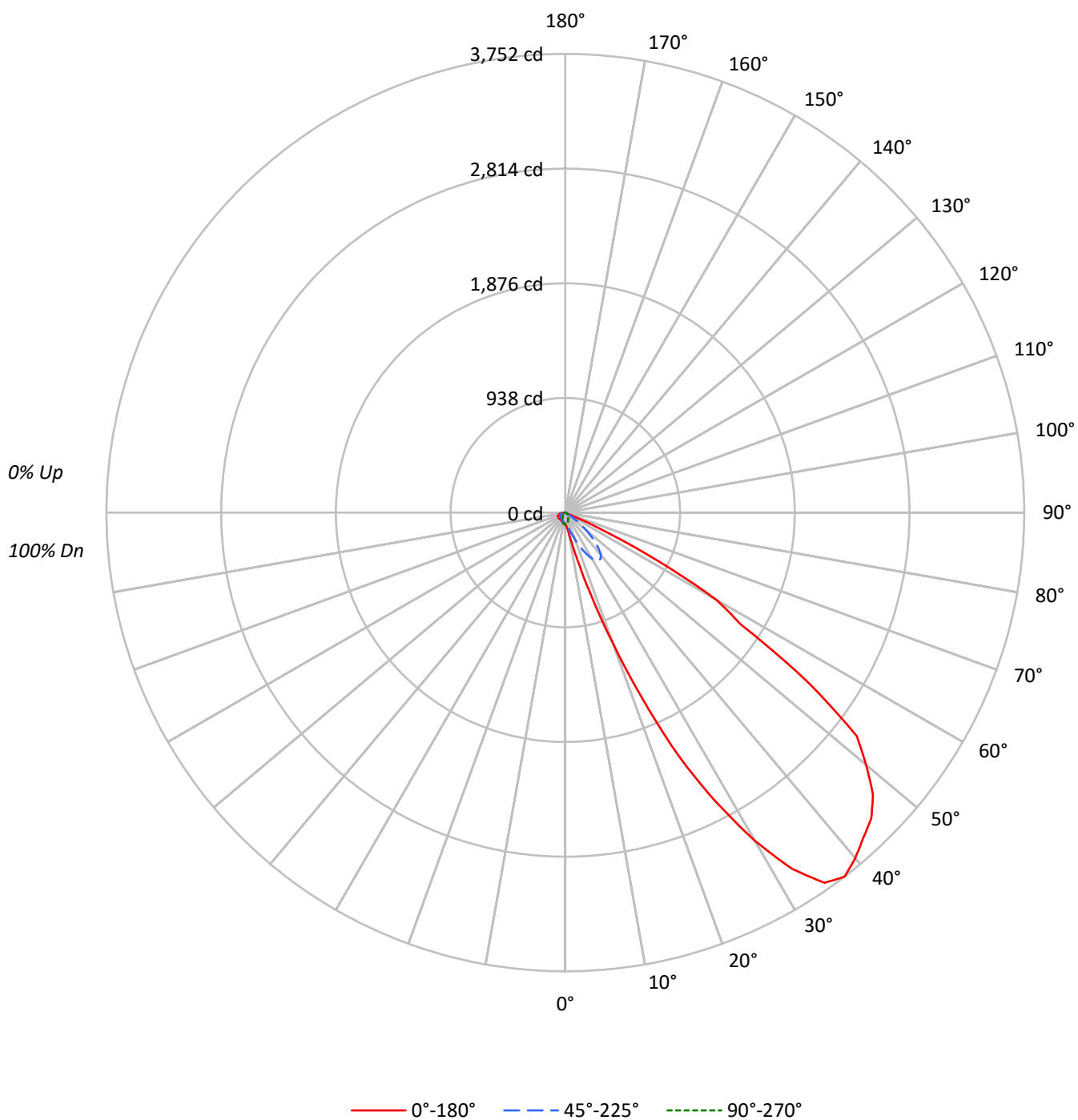
Lumens per Lamp: N/A
Luminaire Lumens: 1676.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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°	16688	16688	16688	16688	16688
5°	19864	18429	16527	15317	15317
10°	31723	21563	15494	14532	14532
15°	79004	28884	14068	13586	14068
20°	208128	43143	12188	12939	13709
25°	417888	63944	10527	12105	13416
30°	616066	85651	8531	11833	13761
35°	777087	100455	7274	11648	14276
40°	829094	101507	6542	12140	15265
45°	861446	84661	6065	13152	16538
50°	860085	58998	5948	14093	18541
55°	730985	26183	6245	15794	20388
60°	491317	5236	6200	17636	23388
65°	130364	2241	6194	19194	26529
70°	3474	2769	6294	20897	29961
75°	2795	2795	6455	22092	34069
80°	2777	4166	6843	23307	38481
85°	2766	5533	10868	24700	38335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 883635 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.6	0.6
10°-20°	47.3	2.8
20°-30°	195.0	11.6
30°-40°	410.9	24.5
40°-50°	507.0	30.2
50°-60°	380.0	22.7
60°-70°	97.8	5.8
70°-80°	20.3	1.2
80°-90°	8.2	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°	251.9	15.0
0°-40°	662.8	39.5
0°-60°	1549.7	92.5
0°-90°	1676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1676.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	97	97	97	97	97	
5°	115	107	96	89	89	13
15°	443	162	79	76	79	162
25°	2199	336	55	64	71	1025
35°	3696	478	35	55	68	2252
45°	3537	348	25	54	68	2706
55°	2434	87	21	53	68	2102
65°	320	6	15	47	65	461
75°	4	4	10	33	51	5
85°	1	3	6	12	19	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°	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
2.5°	102.5	102.5	102.5	102.5	102.5	102.5	102.5	101.1	99.7	96.9	94.2
5°	114.9	113.6	113.6	113.6	112.2	110.8	110.8	106.6	101.1	95.6	91.4
7.5°	135.7	135.7	134.3	131.6	130.2	127.4	124.6	113.6	101.1	92.8	87.2
10°	181.4	178.6	174.5	171.7	164.8	155.1	148.2	123.3	99.7	88.6	84.5
12.5°	271.4	277.0	263.1	249.3	229.9	211.9	189.7	139.9	99.7	84.5	80.3
15°	443.1	452.8	426.5	398.8	351.7	307.4	265.9	162.0	96.9	78.9	74.8
17.5°	724.3	736.7	692.4	627.3	553.9	465.3	389.1	192.5	94.2	73.4	70.6
20°	1135.6	1134.2	1048.3	966.6	825.4	695.2	552.6	235.4	90.0	66.5	66.5
22.5°	1641.0	1646.6	1541.3	1394.5	1193.7	984.6	757.5	285.3	84.5	60.9	62.3
25°	2199.1	2152.0	2027.4	1848.8	1592.6	1303.1	1004.0	336.5	78.9	55.4	58.2
27.5°	2664.4	2618.7	2476.1	2264.2	1988.6	1645.2	1254.7	387.8	72.0	49.9	54.0
30°	3097.9	3039.7	2868.0	2628.4	2300.2	1929.1	1490.1	430.7	63.7	42.9	49.9
32.5°	3455.2	3402.5	3207.3	2928.9	2571.6	2172.8	1689.5	463.9	55.4	38.8	47.1
35°	3696.1	3642.1	3462.1	3156.0	2766.9	2350.1	1851.5	477.8	48.5	34.6	45.7
37.5°	3751.5	3722.4	3593.7	3307.0	2901.2	2463.6	1955.4	473.6	40.2	31.9	42.9
40°	3687.8	3694.7	3633.8	3395.6	2973.2	2512.1	1998.3	451.5	33.2	29.1	41.5
42.5°	3606.1	3624.1	3620.0	3431.6	3003.7	2514.9	1980.3	407.1	26.3	26.3	40.2
45°	3536.9	3554.9	3579.8	3416.4	2982.9	2478.9	1923.5	347.6	19.4	24.9	40.2
47.5°	3410.9	3430.2	3466.3	3294.5	2877.7	2386.1	1821.1	282.5	13.8	23.5	38.8
50°	3210.1	3219.7	3210.1	3017.6	2675.5	2236.5	1654.9	220.2	9.7	22.2	38.8
52.5°	3003.7	2984.3	2904.0	2660.3	2354.2	1999.7	1445.8	156.5	6.9	20.8	37.4
55°	2434.5	2404.1	2344.5	2195.0	2020.5	1708.9	1168.8	87.2	6.9	20.8	36.0
57.5°	1696.4	1713.0	1733.8	1703.4	1623.0	1346.1	887.7	38.8	6.9	19.4	36.0
60°	1426.4	1412.5	1413.9	1394.5	1261.6	981.9	610.7	15.2	6.9	18.0	34.6
62.5°	851.7	861.4	879.4	883.5	752.0	548.4	319.9	6.9	6.9	16.6	33.2
65°	319.9	335.1	293.6	254.8	202.2	148.2	74.8	5.5	8.3	15.2	30.5
67.5°	9.7	11.1	13.8	12.5	12.5	11.1	8.3	5.5	8.3	13.8	29.1
70°	6.9	6.9	6.9	6.9	6.9	5.5	5.5	5.5	6.9	12.5	26.3
72.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.9	11.1	23.5
75°	4.2	5.5	4.2	4.2	4.2	4.2	4.2	4.2	6.9	9.7	19.4
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.5	8.3	16.6
80°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	5.5	6.9	13.8
82.5°	2.8	2.8	2.8	1.4	2.8	2.8	2.8	2.8	5.5	5.5	11.1
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.2	5.5	6.9
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°	96.9	96.9	96.9
2.5°	91.4	91.4	91.4
5°	88.6	88.6	88.6
7.5°	85.9	85.9	85.9
10°	83.1	83.1	83.1
12.5°	80.3	80.3	81.7
15°	76.2	78.9	78.9
17.5°	73.4	76.2	77.6
20°	70.6	73.4	74.8
22.5°	66.5	70.6	73.4
25°	63.7	69.2	70.6
27.5°	60.9	67.9	70.6
30°	59.5	66.5	69.2
32.5°	56.8	65.1	67.9
35°	55.4	65.1	67.9
37.5°	55.4	63.7	67.9
40°	54.0	63.7	67.9
42.5°	54.0	63.7	67.9
45°	54.0	63.7	67.9
47.5°	52.6	63.7	69.2
50°	52.6	65.1	69.2
52.5°	52.6	65.1	69.2
55°	52.6	65.1	67.9
57.5°	51.2	63.7	67.9
60°	51.2	63.7	67.9
62.5°	48.5	62.3	66.5
65°	47.1	60.9	65.1
67.5°	44.3	59.5	62.3
70°	41.5	55.4	59.5
72.5°	37.4	52.6	56.8
75°	33.2	48.5	51.2
77.5°	29.1	42.9	45.7
80°	23.5	36.0	38.8
82.5°	18.0	27.7	29.1
85°	12.5	18.0	19.4
87.5°	5.5	8.3	9.7
90°	0.0	0.0	0.0

(END OF REPORT)