

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: P1306116

Luminaire Tested: P3SQAS17R459024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306116
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: P3SQAS17R459024DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

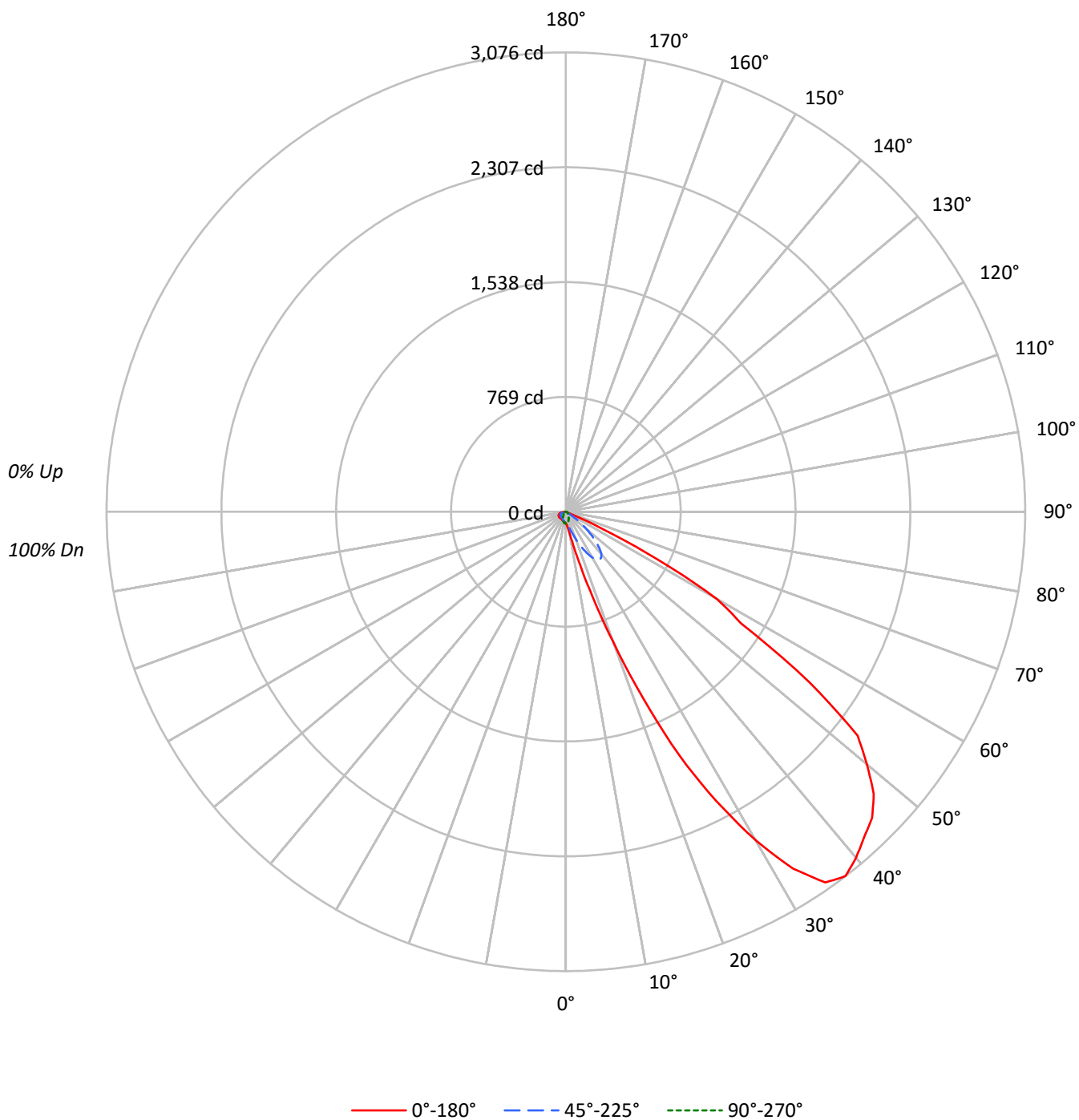
Lumens per Lamp: N/A
Luminaire Lumens: 1374.0 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
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	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°	13692	13692	13692	13692	13692
5°	16285	15110	13537	12568	12568
10°	26005	17663	12714	11909	11909
15°	64776	23678	11536	11126	11536
20°	170611	35372	9989	10612	11235
25°	342599	52428	8627	9919	11003
30°	505059	70219	7000	9705	11296
35°	637063	82353	5971	9545	11690
40°	679700	83206	5351	9960	12500
45°	706225	69414	4969	10790	13542
50°	705087	48362	4876	11548	15218
55°	599291	21469	5104	12941	16695
60°	402794	4306	5098	14467	19151
65°	106891	1834	5094	15730	21761
70°	2870	2266	5136	17171	24573
75°	2262	2262	5257	18099	27948
80°	2281	3372	5653	19142	31539
85°	2174	4545	8892	20156	31419

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 724411 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	0.6
10°-20°	38.8	2.8
20°-30°	159.8	11.6
30°-40°	336.9	24.5
40°-50°	415.6	30.2
50°-60°	311.5	22.7
60°-70°	80.2	5.8
70°-80°	16.6	1.2
80°-90°	6.7	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°	206.5	15.0
0°-40°	543.4	39.5
0°-60°	1270.5	92.5
0°-90°	1374.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1374.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	80	80	80	80	80	
5°	94	87	78	73	73	11
15°	363	133	65	62	65	133
25°	1803	276	45	52	58	840
35°	3030	392	28	45	56	1847
45°	2900	285	20	44	56	2219
55°	1996	72	17	43	56	1723
65°	262	4	12	39	53	378
75°	3	3	8	27	42	4
85°	1	2	4	10	16	1
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°	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
2.5°	84.0	84.0	84.0	84.0	84.0	84.0	84.0	82.9	81.7	79.5	77.2
5°	94.2	93.1	93.1	93.1	92.0	90.8	90.8	87.4	82.9	78.3	74.9
7.5°	111.3	111.3	110.1	107.9	106.7	104.4	102.2	93.1	82.9	76.1	71.5
10°	148.7	146.5	143.0	140.8	135.1	127.2	121.5	101.0	81.7	72.7	69.3
12.5°	222.5	227.1	215.7	204.4	188.5	173.7	155.5	114.7	81.7	69.3	65.8
15°	363.3	371.2	349.7	327.0	288.4	252.0	218.0	132.8	79.5	64.7	61.3
17.5°	593.8	604.0	567.7	514.3	454.1	381.5	319.0	157.8	77.2	60.2	57.9
20°	930.9	929.8	859.4	792.4	676.6	569.9	453.0	193.0	73.8	54.5	54.5
22.5°	1345.3	1349.9	1263.6	1143.3	978.6	807.2	621.0	233.9	69.3	50.0	51.1
25°	1802.9	1764.3	1662.1	1515.6	1305.6	1068.3	823.1	275.9	64.7	45.4	47.7
27.5°	2184.3	2146.9	2029.9	1856.2	1630.3	1348.7	1028.6	317.9	59.0	40.9	44.3
30°	2539.7	2492.0	2351.2	2154.8	1885.7	1581.5	1221.6	353.1	52.2	35.2	40.9
32.5°	2832.6	2789.4	2629.4	2401.2	2108.3	1781.3	1385.1	380.3	45.4	31.8	38.6
35°	3030.1	2985.8	2838.3	2587.4	2268.3	1926.6	1517.9	391.7	39.7	28.4	37.5
37.5°	3075.5	3051.7	2946.1	2711.1	2378.5	2019.7	1603.0	388.3	32.9	26.1	35.2
40°	3023.3	3029.0	2979.0	2783.8	2437.5	2059.4	1638.2	370.1	27.2	23.8	34.1
42.5°	2956.3	2971.1	2967.7	2813.3	2462.5	2061.7	1623.5	333.8	21.6	21.6	32.9
45°	2899.6	2914.3	2934.8	2800.8	2445.4	2032.2	1576.9	285.0	15.9	20.4	32.9
47.5°	2796.3	2812.1	2841.7	2700.9	2359.2	1956.1	1492.9	231.6	11.4	19.3	31.8
50°	2631.6	2639.6	2631.6	2473.8	2193.4	1833.5	1356.7	180.5	7.9	18.2	31.8
52.5°	2462.5	2446.6	2380.7	2180.9	1930.0	1639.4	1185.3	128.3	5.7	17.0	30.7
55°	1995.9	1970.9	1922.1	1799.5	1656.4	1401.0	958.2	71.5	5.7	17.0	29.5
57.5°	1390.7	1404.4	1421.4	1396.4	1330.6	1103.5	727.7	31.8	5.7	15.9	29.5
60°	1169.4	1158.0	1159.1	1143.3	1034.3	804.9	500.7	12.5	5.7	14.8	28.4
62.5°	698.2	706.2	720.9	724.3	616.5	449.6	262.3	5.7	5.7	13.6	27.2
65°	262.3	274.7	240.7	208.9	165.8	121.5	61.3	4.5	6.8	12.5	25.0
67.5°	7.9	9.1	11.4	10.2	10.2	9.1	6.8	4.5	6.8	11.4	23.8
70°	5.7	5.7	5.7	5.7	5.7	4.5	4.5	4.5	5.7	10.2	21.6
72.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.7	9.1	19.3
75°	3.4	4.5	3.4	3.4	3.4	3.4	3.4	3.4	5.7	7.9	15.9
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.5	6.8	13.6
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.4	4.5	5.7	11.4
82.5°	2.3	2.3	2.3	1.1	2.3	2.3	2.3	2.3	4.5	4.5	9.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	3.4	4.5	5.7
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	2.3	3.4	3.4	3.4
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):

	135°	157.5°	180°
0°	79.5	79.5	79.5
2.5°	74.9	74.9	74.9
5°	72.7	72.7	72.7
7.5°	70.4	70.4	70.4
10°	68.1	68.1	68.1
12.5°	65.8	65.8	67.0
15°	62.4	64.7	64.7
17.5°	60.2	62.4	63.6
20°	57.9	60.2	61.3
22.5°	54.5	57.9	60.2
25°	52.2	56.8	57.9
27.5°	50.0	55.6	57.9
30°	48.8	54.5	56.8
32.5°	46.5	53.4	55.6
35°	45.4	53.4	55.6
37.5°	45.4	52.2	55.6
40°	44.3	52.2	55.6
42.5°	44.3	52.2	55.6
45°	44.3	52.2	55.6
47.5°	43.1	52.2	56.8
50°	43.1	53.4	56.8
52.5°	43.1	53.4	56.8
55°	43.1	53.4	55.6
57.5°	42.0	52.2	55.6
60°	42.0	52.2	55.6
62.5°	39.7	51.1	54.5
65°	38.6	50.0	53.4
67.5°	36.3	48.8	51.1
70°	34.1	45.4	48.8
72.5°	30.7	43.1	46.5
75°	27.2	39.7	42.0
77.5°	23.8	35.2	37.5
80°	19.3	29.5	31.8
82.5°	14.8	22.7	23.8
85°	10.2	14.8	15.9
87.5°	4.5	6.8	7.9
90°	0.0	0.0	0.0

(END OF REPORT)