

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: P1318199

Luminaire Tested: P3SQAS17R559835DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R559835DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

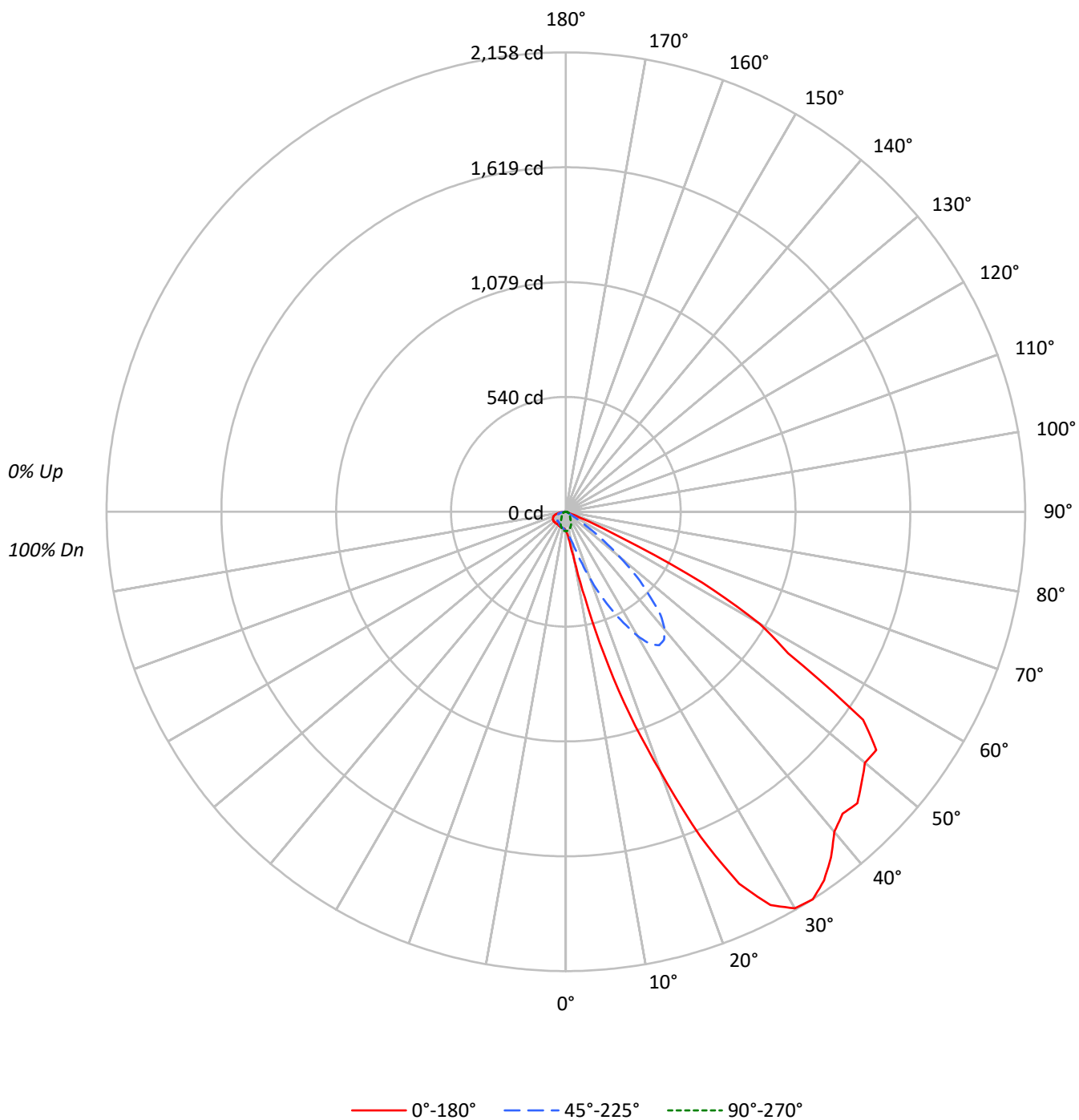
Lumens per Lamp: N/A
Luminaire Lumens: 1388.0 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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	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	95	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	67	77	71	65	74	69	64	72	67	63	61		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32		
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27		
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15414	15414	15414	15414	15414
5°	19726	18014	15473	14418	13986
10°	40100	22944	15005	13728	13728
15°	123115	35196	13996	13337	13782
20°	238020	61581	12591	13031	13709
25°	366352	95773	10946	12580	13758
30°	427780	133896	9028	12429	14139
35°	444521	160901	7485	12383	14696
40°	441143	162388	6902	12950	15985
45°	471653	134421	6576	14029	17317
50°	491573	88712	6564	15111	19398
55°	511855	38674	6636	16574	21349
60°	361599	8887	6751	18152	24077
65°	117934	3016	6479	19479	26977
70°	3726	3072	6798	20998	30867
75°	3261	3261	5723	22025	34269
80°	2479	3670	6050	21919	36498
85°	2371	4940	7311	21736	36359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 520067 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.5	0.7
10°-20°	58.9	4.2
20°-30°	197.6	14.2
30°-40°	324.4	23.4
40°-50°	361.9	26.1
50°-60°	304.6	21.9
60°-70°	103.3	7.4
70°-80°	20.2	1.5
80°-90°	7.6	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°	266.0	19.2
0°-40°	590.4	42.5
0°-60°	1256.9	90.6
0°-90°	1388.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1388.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	90	90	90	90	90	
5°	114	104	90	83	81	14
15°	690	197	78	75	77	219
25°	1928	504	58	66	72	866
35°	2114	765	36	59	70	1313
45°	1936	552	27	58	71	1479
55°	1705	129	22	55	71	1388
65°	289	7	16	48	66	392
75°	5	5	9	33	52	5
85°	1	2	4	11	18	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
2.5°	98.1	98.1	98.1	98.1	98.1	98.1	96.9	93.2	90.8	87.1	85.8
5°	114.1	114.1	114.1	112.8	112.8	110.4	104.2	95.7	89.5	84.6	83.4
7.5°	147.2	145.9	143.5	142.3	138.6	137.4	115.3	98.1	88.3	82.2	80.9
10°	229.3	226.9	223.2	209.7	197.4	188.9	131.2	99.3	85.8	79.7	78.5
12.5°	413.3	408.4	390.0	361.8	327.4	310.3	157.0	100.6	82.2	77.3	77.3
15°	690.5	684.3	650.0	610.7	548.2	513.9	197.4	99.3	78.5	73.6	74.8
17.5°	997.0	979.9	944.3	892.8	808.2	767.7	257.5	96.9	73.6	71.1	73.6
20°	1298.7	1293.8	1235.0	1165.1	1060.8	1006.9	336.0	93.2	68.7	67.5	71.1
22.5°	1651.9	1631.1	1568.5	1493.7	1350.2	1279.1	420.6	88.3	63.8	63.8	68.7
25°	1927.9	1903.3	1854.3	1767.2	1631.1	1555.1	504.0	82.2	57.6	60.1	66.2
27.5°	2082.4	2054.2	2017.4	1942.6	1837.1	1769.7	587.4	74.8	51.5	56.4	63.8
30°	2151.1	2143.7	2116.7	2061.5	1964.7	1904.6	673.3	66.2	45.4	52.7	62.5
32.5°	2158.4	2162.1	2151.1	2115.5	2041.9	1990.4	737.1	58.9	40.5	50.3	60.1
35°	2114.3	2127.8	2135.1	2120.4	2072.6	2030.9	765.3	50.3	35.6	47.8	58.9
37.5°	2045.6	2070.1	2094.7	2098.3	2068.9	2041.9	757.9	42.9	33.1	46.6	58.9
40°	1962.2	1984.3	2034.6	2066.5	2056.6	2037.0	722.3	35.6	30.7	44.1	57.6
42.5°	1924.2	1929.1	1983.1	2037.0	2034.6	2018.6	659.8	28.2	28.2	44.1	57.6
45°	1936.5	1914.4	1949.9	2012.5	2008.8	1988.0	551.9	22.1	27.0	42.9	57.6
47.5°	1884.9	1854.3	1914.4	1988.0	1974.5	1943.8	456.2	15.9	25.8	41.7	56.4
50°	1834.7	1829.8	1876.4	1913.2	1894.8	1877.6	331.1	12.3	24.5	40.5	56.4
52.5°	1838.3	1829.8	1834.7	1833.4	1796.6	1778.3	226.9	9.8	23.3	39.2	56.4
55°	1704.7	1677.7	1651.9	1659.3	1661.7	1649.5	128.8	8.6	22.1	39.2	55.2
57.5°	1238.6	1231.3	1259.5	1339.2	1401.8	1409.1	62.5	8.6	20.8	38.0	54.0
60°	1049.8	1044.9	1046.1	1069.4	1102.5	1081.7	25.8	8.6	19.6	36.8	52.7
62.5°	723.6	771.4	791.0	845.0	822.9	793.5	9.8	9.8	18.4	34.3	51.5
65°	289.4	288.2	315.2	340.9	333.6	311.5	7.4	8.6	15.9	31.9	47.8
67.5°	67.5	61.3	52.7	45.4	38.0	30.7	7.4	8.6	14.7	29.4	45.4
70°	7.4	7.4	7.4	7.4	7.4	6.1	6.1	8.6	13.5	27.0	41.7
72.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.4	11.0	23.3	38.0
75°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.1	8.6	19.6	33.1
77.5°	3.7	3.7	3.7	4.9	3.7	4.9	4.9	6.1	7.4	15.9	28.2
80°	2.5	2.5	3.7	3.7	3.7	3.7	3.7	4.9	6.1	13.5	22.1
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7	4.9	9.8	15.9
85°	1.2	1.2	1.2	1.2	1.2	2.5	2.5	3.7	3.7	7.4	11.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	3.7	3.7	4.9
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):

	157.5°	180°
0°	89.5	89.5
2.5°	84.6	84.6
5°	82.2	80.9
7.5°	79.7	79.7
10°	78.5	78.5
12.5°	77.3	78.5
15°	77.3	77.3
17.5°	74.8	76.0
20°	73.6	74.8
22.5°	72.4	73.6
25°	71.1	72.4
27.5°	69.9	71.1
30°	68.7	71.1
32.5°	67.5	69.9
35°	67.5	69.9
37.5°	67.5	71.1
40°	67.5	71.1
42.5°	67.5	71.1
45°	67.5	71.1
47.5°	67.5	71.1
50°	67.5	72.4
52.5°	67.5	72.4
55°	67.5	71.1
57.5°	66.2	71.1
60°	66.2	69.9
62.5°	65.0	68.7
65°	62.5	66.2
67.5°	60.1	65.0
70°	56.4	61.3
72.5°	52.7	56.4
75°	47.8	51.5
77.5°	41.7	44.1
80°	33.1	36.8
82.5°	25.8	28.2
85°	17.2	18.4
87.5°	7.4	8.6
90°	0.0	0.0

(END OF REPORT)