

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: P1307223

Luminaire Tested: P3SQAS20R409027D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R409027D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

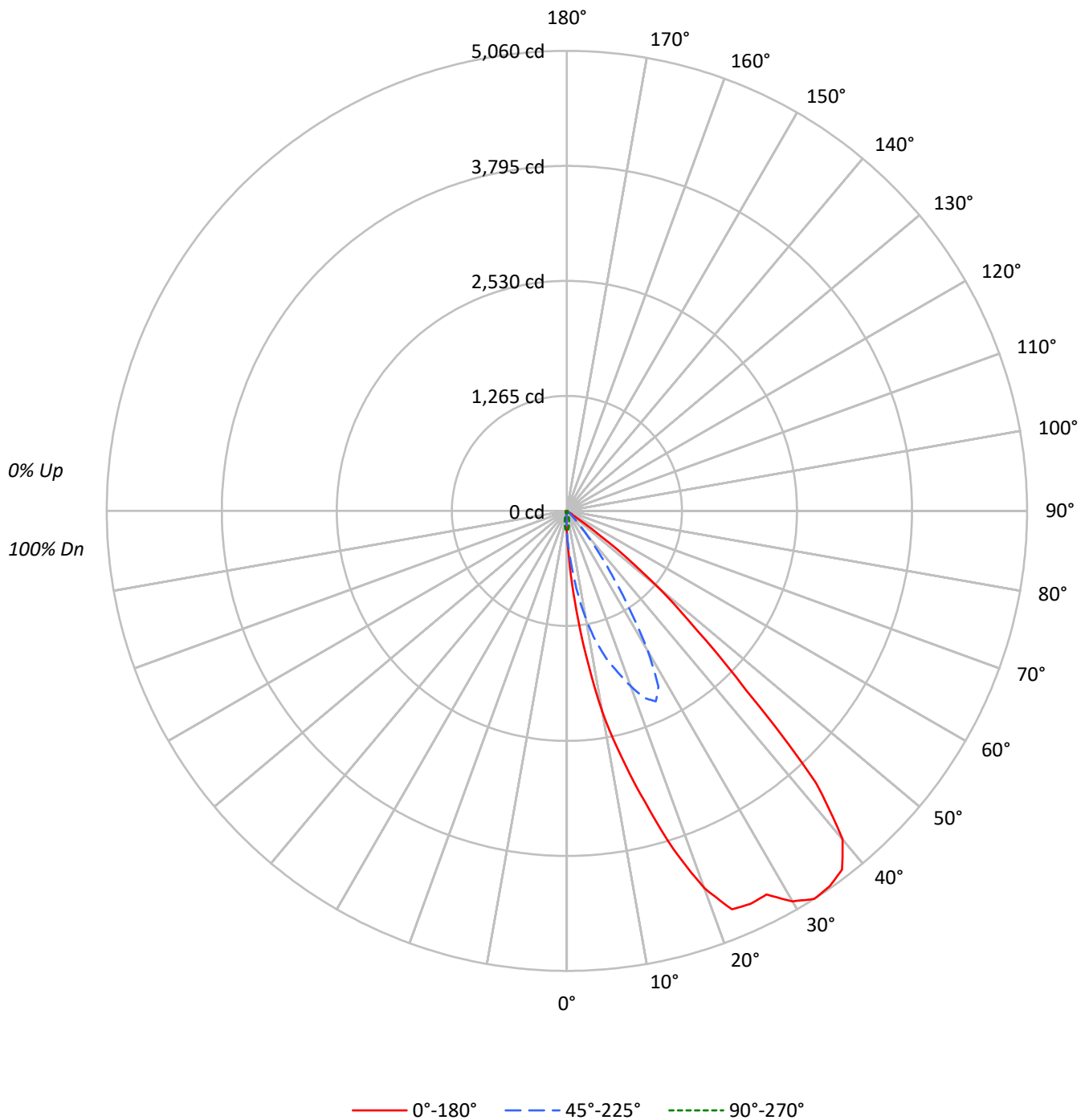
Lumens per Lamp: N/A
Luminaire Lumens: 1867.0 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	38044	38044	38044	38044	38044
5°	171584	109399	34092	13087	9543
10°	393514	211377	24011	4687	3585
15°	590541	299915	14906	2532	2247
20°	808612	375953	8669	1448	1741
25°	906465	439285	4504	1197	1501
30°	985956	354597	1889	935	1571
35°	1059635	181462	673	1325	1997
40°	1060007	72370	360	1416	2473
45°	676803	24210	779	2314	3459
50°	351338	2947	1259	2947	4233
55°	30326	480	1411	3783	5225
60°	1102	551	1619	4340	5993
65°	1304	652	2567	4483	6439
70°	806	806	3172	4784	6345
75°	1065	1065	3127	5257	7320
80°	1587	1587	4661	4661	6248
85°	0	3162	9287	6323	6323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 676803 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	2.3
10°-20°	252.7	13.5
20°-30°	553.4	29.6
30°-40°	630.5	33.8
40°-50°	332.7	17.8
50°-60°	39.2	2.1
60°-70°	7.1	0.4
70°-80°	5.8	0.3
80°-90°	2.6	0.1
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°	849.2	45.5
0°-40°	1479.6	79.3
0°-60°	1851.5	99.2
0°-90°	1867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1867.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	221	221	221	221	221	
5°	992	633	197	76	55	134
15°	3312	1682	84	14	13	976
25°	4770	2312	24	6	8	2198
35°	5040	863	3	6	10	3124
45°	2779	99	3	10	14	2240
55°	101	2	5	13	17	314
65°	3	2	6	11	16	3
75°	2	2	5	8	11	2
85°	0	2	5	3	3	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	220.9	220.9	220.9	220.9	220.9	220.9	220.9	220.9	220.9	220.9	220.9
2.5°	492.3	492.3	490.7	476.5	475.0	473.4	448.1	441.8	411.8	391.3	298.2
5°	992.5	970.4	968.9	943.6	901.0	844.2	807.9	749.5	692.7	632.8	367.7
7.5°	1581.1	1600.0	1548.0	1521.1	1426.5	1358.6	1254.5	1163.0	1035.1	915.2	424.5
10°	2250.2	2217.0	2165.0	2112.9	2010.3	1888.8	1734.2	1571.6	1387.0	1208.7	456.0
12.5°	2772.5	2729.9	2698.3	2627.3	2526.3	2370.1	2185.5	1967.7	1723.1	1465.9	454.5
15°	3312.1	3269.5	3198.5	3135.4	2985.5	2810.3	2609.9	2322.7	2022.9	1682.1	421.3
17.5°	3905.4	3850.2	3771.3	3675.1	3529.9	3335.8	3081.7	2731.4	2307.0	1858.8	361.4
20°	4412.0	4378.8	4299.9	4186.3	4044.3	3854.9	3561.4	3173.3	2655.7	2051.3	287.2
22.5°	4743.3	4713.4	4659.7	4560.3	4453.0	4251.0	3982.8	3556.7	2947.6	2226.5	217.8
25°	4770.2	4757.5	4743.3	4710.2	4645.5	4501.9	4240.0	3780.8	3129.1	2311.7	161.0
27.5°	4756.0	4751.2	4748.1	4730.7	4688.1	4546.1	4277.8	3813.9	3105.4	2179.2	118.3
30°	4957.9	4943.7	4935.8	4879.0	4767.0	4547.7	4197.4	3635.6	2759.8	1783.1	85.2
32.5°	5060.5	5057.3	5049.5	4994.2	4836.4	4550.8	4061.7	3204.8	2188.6	1287.6	58.4
35°	5040.0	5024.2	4995.8	4893.2	4673.9	4315.7	3623.0	2559.4	1579.5	863.1	37.9
37.5°	4970.6	4934.3	4879.0	4694.4	4402.5	3913.3	2938.2	1884.1	1074.6	558.6	22.1
40°	4714.9	4666.0	4579.2	4353.6	3970.1	3225.3	2172.8	1273.4	705.3	321.9	6.3
42.5°	4053.8	3990.6	3927.5	3675.1	3236.4	2404.8	1429.6	787.4	402.4	176.7	1.6
45°	2778.8	2699.9	2613.1	2430.1	2078.2	1456.5	850.5	443.4	208.3	99.4	1.6
47.5°	1929.8	1893.5	1742.1	1508.5	1156.6	771.6	440.2	217.8	110.5	45.8	1.6
50°	1311.3	1270.3	1093.5	867.9	615.4	369.2	202.0	108.9	48.9	11.0	1.6
52.5°	688.0	637.5	525.5	400.8	249.3	154.6	88.4	47.3	14.2	1.6	1.6
55°	101.0	93.1	75.7	61.5	55.2	42.6	25.2	11.0	1.6	1.6	3.2
57.5°	3.2	3.2	3.2	3.2	4.7	4.7	3.2	1.6	1.6	1.6	3.2
60°	3.2	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6	3.2
62.5°	3.2	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6	3.2
65°	3.2	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6	3.2
67.5°	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6	3.2	4.7
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.7
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	4.7
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.7
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	4.7
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2
82.5°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	4.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2
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):

	90°	112.5°	135°	157.5°	180°
0°	220.9	220.9	220.9	220.9	220.9
2.5°	217.8	161.0	124.7	107.3	105.7
5°	197.2	115.2	75.7	58.4	55.2
7.5°	167.3	80.5	44.2	31.6	30.0
10°	137.3	55.2	26.8	22.1	20.5
12.5°	108.9	36.3	18.9	17.4	15.8
15°	83.6	23.7	14.2	12.6	12.6
17.5°	63.1	15.8	11.0	11.0	11.0
20°	47.3	11.0	7.9	9.5	9.5
22.5°	33.1	7.9	6.3	7.9	7.9
25°	23.7	6.3	6.3	7.9	7.9
27.5°	15.8	4.7	4.7	6.3	7.9
30°	9.5	3.2	4.7	6.3	7.9
32.5°	4.7	3.2	4.7	7.9	7.9
35°	3.2	4.7	6.3	7.9	9.5
37.5°	1.6	4.7	6.3	9.5	9.5
40°	1.6	4.7	6.3	9.5	11.0
42.5°	3.2	6.3	7.9	11.0	12.6
45°	3.2	6.3	9.5	12.6	14.2
47.5°	3.2	6.3	11.0	14.2	14.2
50°	4.7	7.9	11.0	14.2	15.8
52.5°	4.7	7.9	11.0	15.8	17.4
55°	4.7	7.9	12.6	15.8	17.4
57.5°	4.7	9.5	12.6	15.8	17.4
60°	4.7	7.9	12.6	15.8	17.4
62.5°	6.3	7.9	11.0	15.8	15.8
65°	6.3	7.9	11.0	15.8	15.8
67.5°	6.3	7.9	11.0	14.2	14.2
70°	6.3	7.9	9.5	12.6	12.6
72.5°	6.3	7.9	9.5	11.0	12.6
75°	4.7	6.3	7.9	9.5	11.0
77.5°	4.7	6.3	6.3	9.5	9.5
80°	4.7	4.7	4.7	6.3	6.3
82.5°	4.7	4.7	3.2	4.7	4.7
85°	4.7	3.2	3.2	3.2	3.2
87.5°	3.2	3.2	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)