

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: P1311663

Luminaire Tested: P3SQAS20R459050D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R459050D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

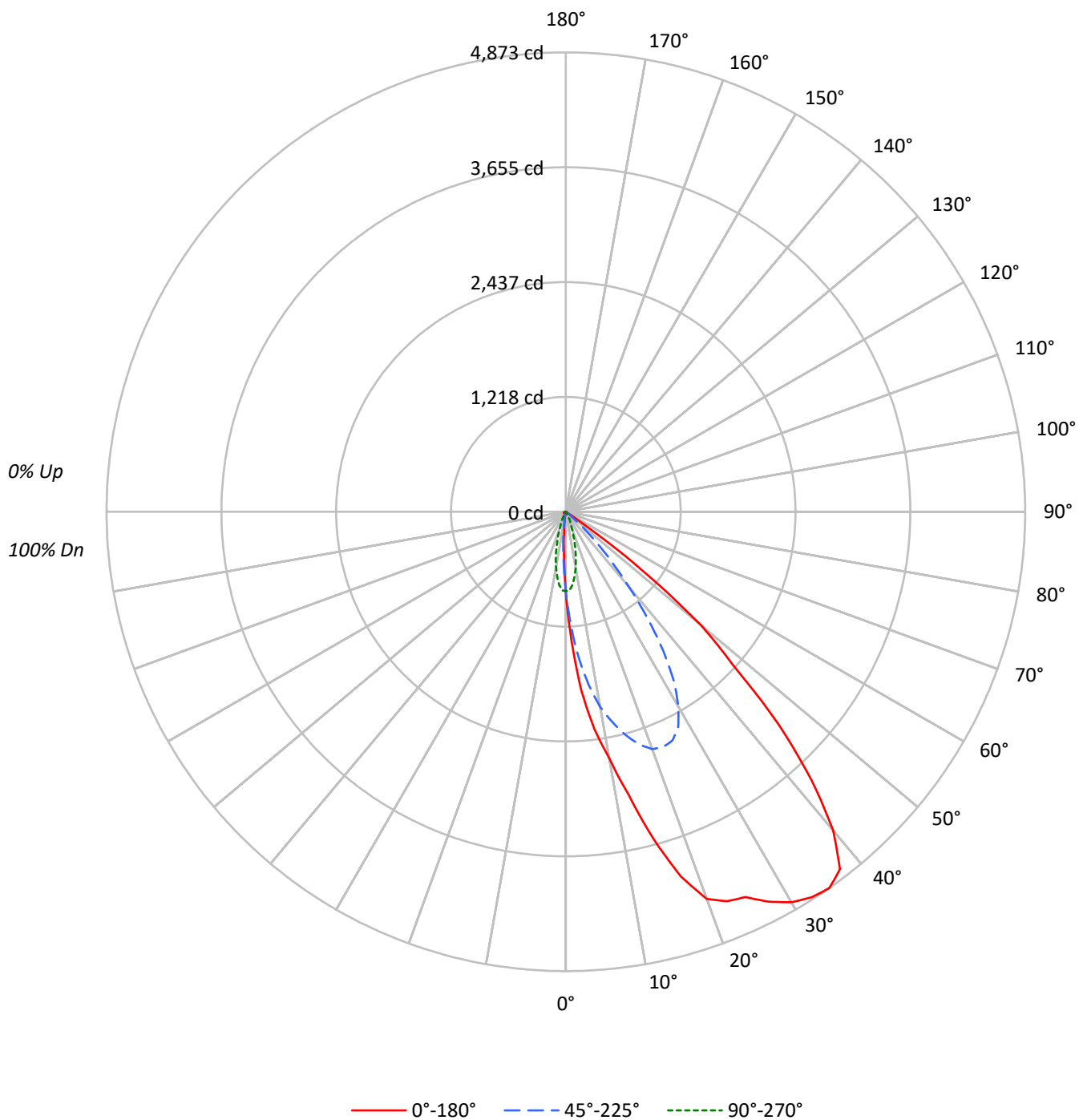
Lumens per Lamp: N/A
Luminaire Lumens: 2208.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	84	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	46	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	144701	144701	144701	144701	144701
5°	329770	267515	135348	54267	37031
10°	464690	367492	104630	11944	5491
15°	640375	437222	66844	3958	3299
20°	800731	491068	34859	2712	2712
25°	856887	508454	16133	2109	2451
30°	951095	474811	7338	2207	2565
35°	1024545	378525	2334	2334	3112
40°	991369	234555	1237	2900	3732
45°	778514	110649	1340	3605	4506
50°	500200	12861	1983	4448	5948
55°	75966	1111	2222	5555	7206
60°	1274	1274	2549	6372	7647
65°	1508	1508	3016	6765	9047
70°	1863	1863	3726	7452	10222
75°	1198	2462	4924	8584	11046
80°	1785	3670	5455	9124	12794
85°	0	3557	7311	10868	10868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 778514 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	4.2
10°-20°	332.4	15.1
20°-30°	584.0	26.5
30°-40°	663.2	30.0
40°-50°	429.4	19.4
50°-60°	84.3	3.8
60°-70°	10.2	0.5
70°-80°	8.5	0.4
80°-90°	3.9	0.2
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°	1008.4	45.7
0°-40°	1671.6	75.7
0°-60°	2185.4	99.0
0°-90°	2208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2208.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	840	840	840	840	840	
5°	1908	1547	783	314	214	203
15°	3592	2452	375	22	18	1035
25°	4509	2676	85	11	13	2114
35°	4873	1800	11	11	15	2996
45°	3196	454	6	15	18	2409
55°	253	4	7	18	24	483
65°	4	4	7	17	22	4
75°	2	4	7	13	17	2
85°	0	2	4	6	6	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	840.2	840.2	840.2	840.2	840.2	840.2	840.2	840.2	840.2	840.2	840.2
2.5°	1364.6	1360.9	1366.5	1329.5	1327.7	1300.0	1292.6	1261.2	1218.7	1198.4	1150.4
5°	1907.5	1889.0	1889.0	1844.7	1829.9	1798.6	1745.0	1678.5	1623.1	1547.4	1466.2
7.5°	2326.7	2323.0	2323.0	2284.2	2247.3	2203.0	2130.9	2055.2	1966.6	1850.3	1732.1
10°	2657.2	2662.8	2646.1	2611.0	2557.5	2509.5	2424.5	2332.2	2223.3	2101.4	1944.4
12.5°	3074.5	3033.9	3021.0	2941.6	2873.3	2780.9	2679.4	2574.1	2439.3	2286.1	2108.8
15°	3591.6	3539.9	3488.2	3382.9	3268.4	3126.2	2967.4	2812.3	2638.7	2452.2	2230.7
17.5°	4053.2	4053.2	3984.9	3818.7	3671.0	3460.5	3246.3	3039.4	2834.5	2588.9	2311.9
20°	4369.0	4352.4	4300.7	4178.8	4010.7	3772.5	3493.7	3203.8	2956.4	2679.4	2358.1
22.5°	4472.4	4468.7	4470.5	4398.5	4263.7	4016.3	3674.7	3333.1	3022.8	2701.5	2335.9
25°	4509.3	4516.7	4535.2	4507.5	4405.9	4158.5	3785.5	3394.0	3043.1	2675.7	2251.0
27.5°	4662.6	4647.8	4668.1	4649.7	4535.2	4239.7	3807.6	3379.2	2998.8	2581.5	2099.5
30°	4782.6	4778.9	4814.0	4797.4	4647.8	4291.4	3787.3	3323.8	2889.9	2387.6	1861.3
32.5°	4850.9	4852.8	4862.0	4793.7	4572.1	4178.8	3687.6	3211.2	2684.9	2134.6	1551.1
35°	4873.1	4862.0	4810.3	4642.3	4339.4	3918.4	3442.0	2943.4	2406.1	1800.4	1226.1
37.5°	4777.1	4719.8	4586.9	4335.7	3984.9	3591.6	3128.1	2605.5	2023.8	1421.9	914.1
40°	4409.6	4333.9	4165.9	3909.2	3582.3	3201.9	2727.4	2180.8	1569.6	1043.3	642.6
42.5°	3859.3	3820.5	3645.1	3421.7	3144.7	2760.6	2271.3	1717.3	1161.5	720.2	409.9
45°	3196.4	3146.6	3035.8	2838.2	2620.3	2217.7	1761.6	1229.8	792.2	454.3	203.1
47.5°	2396.8	2400.5	2324.8	2175.3	1961.1	1625.0	1205.8	825.4	496.7	234.5	46.2
50°	1866.9	1841.0	1733.9	1580.7	1331.4	1082.1	779.3	520.7	262.2	48.0	3.7
52.5°	1034.1	1050.7	993.5	943.6	814.3	646.3	459.8	264.1	55.4	5.5	3.7
55°	253.0	267.8	256.7	262.2	271.4	241.9	186.5	51.7	5.5	3.7	3.7
57.5°	5.5	5.5	5.5	5.5	9.2	12.9	12.9	3.7	3.7	3.7	3.7
60°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
62.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
65°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
67.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
70°	3.7	3.7	3.7	1.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7	3.7
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7	3.7
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7
82.5°	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	3.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	840.2	840.2	840.2	840.2	840.2	840.2	840.2	840.2
2.5°	1126.4	1091.3	1026.7	834.6	670.3	541.0	463.5	456.1
5°	1394.2	1300.0	1163.3	782.9	494.9	313.9	227.1	214.2
7.5°	1606.5	1473.6	1263.1	698.0	337.9	160.7	88.6	73.9
10°	1781.9	1593.6	1314.8	598.3	212.4	68.3	36.9	31.4
12.5°	1902.0	1674.8	1324.0	487.5	121.9	33.2	24.0	22.2
15°	1979.5	1700.7	1279.7	374.9	68.3	22.2	20.3	18.5
17.5°	2010.9	1678.5	1194.7	271.4	36.9	16.6	16.6	16.6
20°	1996.1	1606.5	1069.2	190.2	24.0	14.8	14.8	14.8
22.5°	1926.0	1482.8	912.2	127.4	16.6	12.9	12.9	12.9
25°	1787.5	1314.8	746.0	84.9	11.1	11.1	12.9	12.9
27.5°	1580.7	1107.9	570.6	57.2	9.2	11.1	12.9	12.9
30°	1320.3	877.1	409.9	36.9	9.2	11.1	11.1	12.9
32.5°	1048.9	638.9	269.6	22.2	7.4	11.1	12.9	14.8
35°	760.8	435.8	171.7	11.1	9.2	11.1	12.9	14.8
37.5°	533.7	284.4	99.7	7.4	9.2	11.1	14.8	14.8
40°	347.2	158.8	36.9	5.5	9.2	12.9	14.8	16.6
42.5°	181.0	55.4	7.4	5.5	9.2	12.9	16.6	18.5
45°	46.2	7.4	1.8	5.5	11.1	14.8	18.5	18.5
47.5°	5.5	1.8	1.8	7.4	11.1	16.6	18.5	20.3
50°	1.8	3.7	3.7	7.4	11.1	16.6	20.3	22.2
52.5°	3.7	3.7	3.7	7.4	12.9	16.6	22.2	24.0
55°	3.7	3.7	3.7	7.4	12.9	18.5	22.2	24.0
57.5°	3.7	3.7	3.7	7.4	12.9	18.5	22.2	22.2
60°	3.7	3.7	3.7	7.4	12.9	18.5	22.2	22.2
62.5°	3.7	3.7	5.5	7.4	12.9	16.6	22.2	22.2
65°	3.7	5.5	5.5	7.4	12.9	16.6	20.3	22.2
67.5°	3.7	3.7	5.5	7.4	12.9	16.6	20.3	22.2
70°	3.7	3.7	5.5	7.4	11.1	14.8	18.5	20.3
72.5°	3.7	3.7	5.5	7.4	11.1	14.8	16.6	18.5
75°	3.7	3.7	5.5	7.4	9.2	12.9	16.6	16.6
77.5°	3.7	3.7	5.5	5.5	9.2	11.1	14.8	14.8
80°	3.7	3.7	5.5	5.5	7.4	9.2	11.1	12.9
82.5°	3.7	3.7	3.7	5.5	5.5	7.4	9.2	9.2
85°	3.7	3.7	3.7	3.7	3.7	5.5	5.5	5.5
87.5°	1.8	3.7	3.7	3.7	3.7	3.7	3.7	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)