

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: P1316571

Luminaire Tested: P3SQAS20R459827D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R459827D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

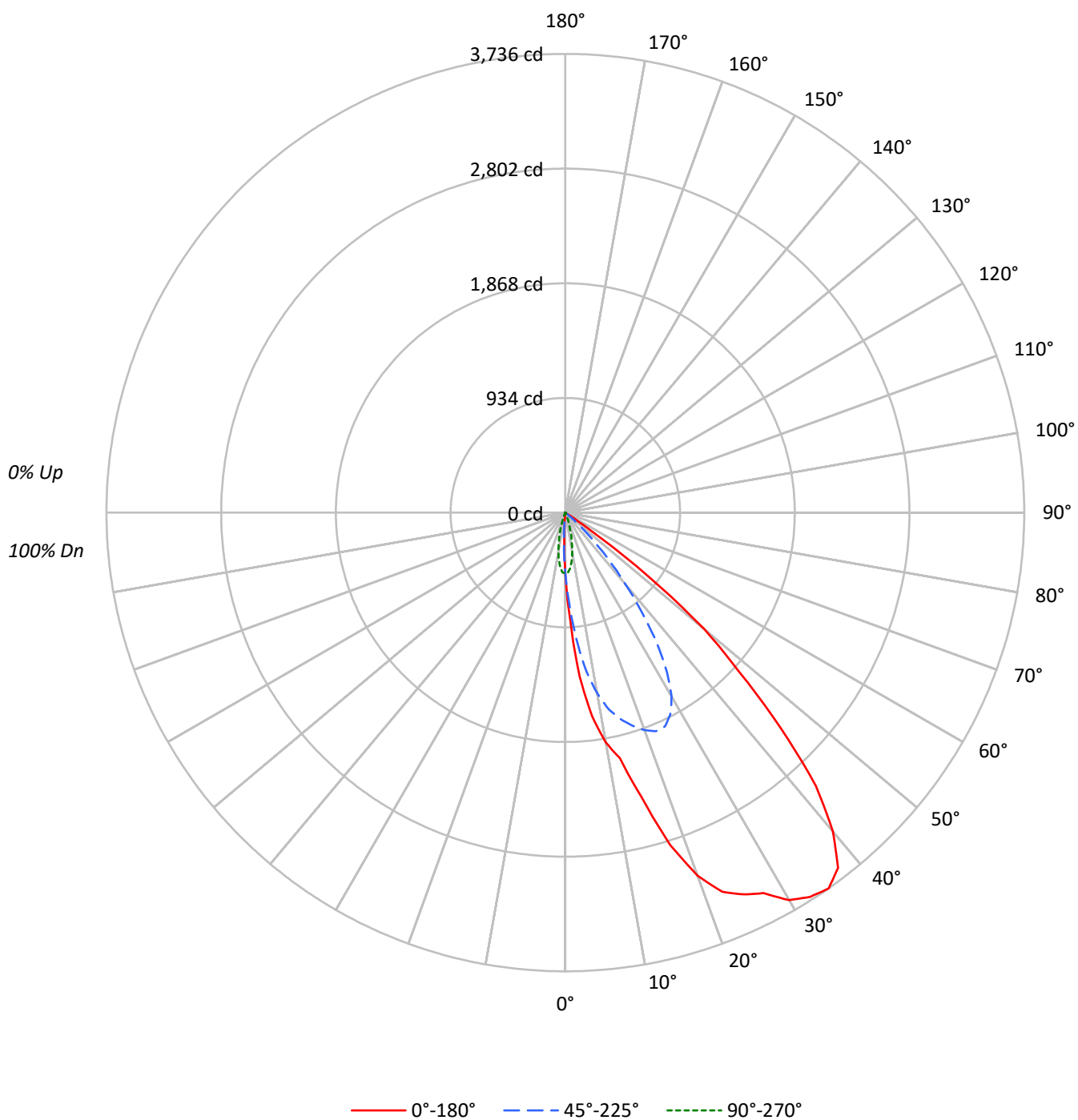
Lumens per Lamp: N/A
Luminaire Lumens: 1584.0 lumens
Efficiency: N/A
Efficacy: 57.8 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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	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	98	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	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	63	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	59	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	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	84716	84716	84716	84716	84716
5°	231297	177963	78419	15732	5895
10°	332184	261078	56696	1486	1242
15°	427666	310542	30168	499	0
20°	576420	345529	11473	0	0
25°	651943	365022	2964	0	0
30°	724686	344097	278	0	0
35°	785581	274412	0	0	0
40°	761423	172303	0	0	0
45°	603589	82080	0	0	0
50°	395037	10289	0	0	0
55°	67889	0	0	0	0
60°	0	0	482	0	0
65°	0	571	571	0	0
70°	0	705	1410	0	0
75°	0	932	1863	0	0
80°	0	1389	2777	1389	0
85°	0	2766	5533	2766	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 603589 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	3.7
10°-20°	225.7	14.2
20°-30°	422.4	26.7
30°-40°	493.1	31.1
40°-50°	321.6	20.3
50°-60°	59.7	3.8
60°-70°	0.6	0.0
70°-80°	1.1	0.1
80°-90°	1.3	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°	706.7	44.6
0°-40°	1199.7	75.7
0°-60°	1581.0	99.8
0°-90°	1584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1584.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	492	492	492	492	492	
5°	1338	1029	454	91	34	143
15°	2399	1742	169	3	0	715
25°	3431	1921	16	0	0	1587
35°	3736	1305	0	0	0	2292
45°	2478	337	0	0	0	1884
55°	226	0	0	0	0	393
65°	0	1	1	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	1	0	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°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	867.3	874.4	860.2	854.5	836.0	840.3	809.0	796.2	776.3	743.6	728.0
5°	1337.9	1325.1	1313.8	1289.6	1275.4	1237.0	1194.3	1146.0	1087.7	1029.4	962.6
7.5°	1673.5	1663.5	1659.3	1639.4	1610.9	1571.1	1515.7	1454.5	1379.2	1301.0	1200.0
10°	1899.5	1889.6	1872.5	1852.6	1829.9	1797.2	1743.1	1676.3	1593.9	1492.9	1374.9
12.5°	2047.4	2046.0	2017.6	1994.8	1966.4	1937.9	1882.5	1828.5	1747.4	1643.6	1510.0
15°	2398.6	2375.9	2338.9	2274.9	2195.3	2121.3	2031.8	1946.5	1858.3	1741.7	1592.4
17.5°	2836.5	2810.9	2748.4	2667.3	2539.4	2398.6	2245.0	2110.0	1977.7	1819.9	1643.6
20°	3145.1	3135.1	3082.5	2988.7	2852.2	2665.9	2464.0	2273.5	2087.2	1885.3	1667.8
22.5°	3342.7	3337.0	3315.7	3251.7	3112.4	2903.3	2643.2	2387.2	2162.6	1926.6	1660.7
25°	3430.8	3438.0	3440.8	3409.5	3297.2	3083.9	2775.4	2474.0	2205.2	1920.9	1606.7
27.5°	3493.4	3493.4	3504.8	3490.6	3376.8	3152.2	2826.6	2503.8	2191.0	1851.2	1492.9
30°	3644.1	3641.3	3648.4	3610.0	3452.2	3173.5	2803.8	2455.5	2110.0	1730.3	1329.4
32.5°	3709.5	3712.4	3710.9	3649.8	3466.4	3159.3	2748.4	2363.1	1960.7	1541.2	1113.3
35°	3736.5	3723.7	3671.1	3531.8	3300.0	2970.2	2592.0	2206.7	1751.7	1305.2	878.7
37.5°	3647.0	3610.0	3493.4	3302.9	3019.9	2702.9	2333.2	1926.6	1474.4	1023.7	661.1
40°	3386.8	3338.4	3192.0	2961.6	2702.9	2417.1	2027.5	1598.1	1153.1	766.4	463.5
42.5°	3018.5	2963.1	2805.2	2604.8	2368.7	2068.7	1680.6	1251.2	844.6	528.9	294.3
45°	2478.2	2446.9	2355.9	2186.8	1955.0	1643.6	1288.2	912.8	584.4	337.0	150.7
47.5°	1916.6	1876.8	1811.4	1694.8	1501.4	1205.7	901.4	619.9	375.4	166.4	31.3
50°	1474.4	1427.5	1347.9	1218.5	1016.6	804.7	584.4	386.7	190.5	38.4	1.4
52.5°	848.8	858.8	820.4	737.9	625.6	482.0	338.4	194.8	42.7	1.4	0.0
55°	226.1	244.6	238.9	257.3	226.1	190.5	140.8	37.0	2.8	0.0	0.0
57.5°	0.0	0.0	1.4	2.8	8.5	12.8	4.3	1.4	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	692.4	662.6	625.6	489.1	368.3	264.5	206.2	190.5
5°	898.6	826.1	732.2	453.6	227.5	91.0	41.2	34.1
7.5°	1093.4	986.7	817.5	396.7	115.2	22.7	11.4	10.0
10°	1244.1	1100.5	880.1	324.2	42.7	8.5	7.1	7.1
12.5°	1347.9	1173.0	902.9	246.0	15.6	4.3	4.3	2.8
15°	1407.6	1201.4	881.5	169.2	5.7	2.8	0.0	0.0
17.5°	1426.1	1190.1	824.7	106.6	1.4	0.0	0.0	0.0
20°	1410.4	1134.6	735.1	62.6	0.0	0.0	0.0	0.0
22.5°	1359.3	1047.9	627.0	34.1	0.0	0.0	0.0	0.0
25°	1264.0	925.6	500.5	15.6	0.0	0.0	0.0	0.0
27.5°	1109.0	767.8	376.8	5.7	0.0	0.0	0.0	0.0
30°	932.7	598.6	267.3	1.4	0.0	0.0	0.0	0.0
32.5°	728.0	440.8	172.0	0.0	0.0	0.0	0.0	0.0
35°	547.4	308.5	102.4	0.0	0.0	0.0	0.0	0.0
37.5°	381.0	194.8	54.0	0.0	0.0	0.0	0.0	0.0
40°	237.4	105.2	18.5	0.0	0.0	0.0	0.0	0.0
42.5°	132.2	37.0	1.4	0.0	0.0	0.0	0.0	0.0
45°	31.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0
60°	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0
62.5°	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0
65°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0
67.5°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0
70°	1.4	1.4	1.4	2.8	1.4	0.0	0.0	0.0
72.5°	1.4	1.4	2.8	2.8	1.4	0.0	0.0	0.0
75°	1.4	1.4	2.8	2.8	1.4	0.0	0.0	0.0
77.5°	1.4	2.8	2.8	2.8	1.4	1.4	0.0	0.0
80°	1.4	2.8	2.8	2.8	2.8	1.4	0.0	0.0
82.5°	1.4	2.8	2.8	2.8	2.8	1.4	0.0	0.0
85°	1.4	2.8	2.8	2.8	1.4	1.4	0.0	0.0
87.5°	1.4	2.8	2.8	2.8	2.8	1.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)