

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: P1313751

Luminaire Tested: P3SQAS20R459730D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313751
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: P3SQAS20R459730D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

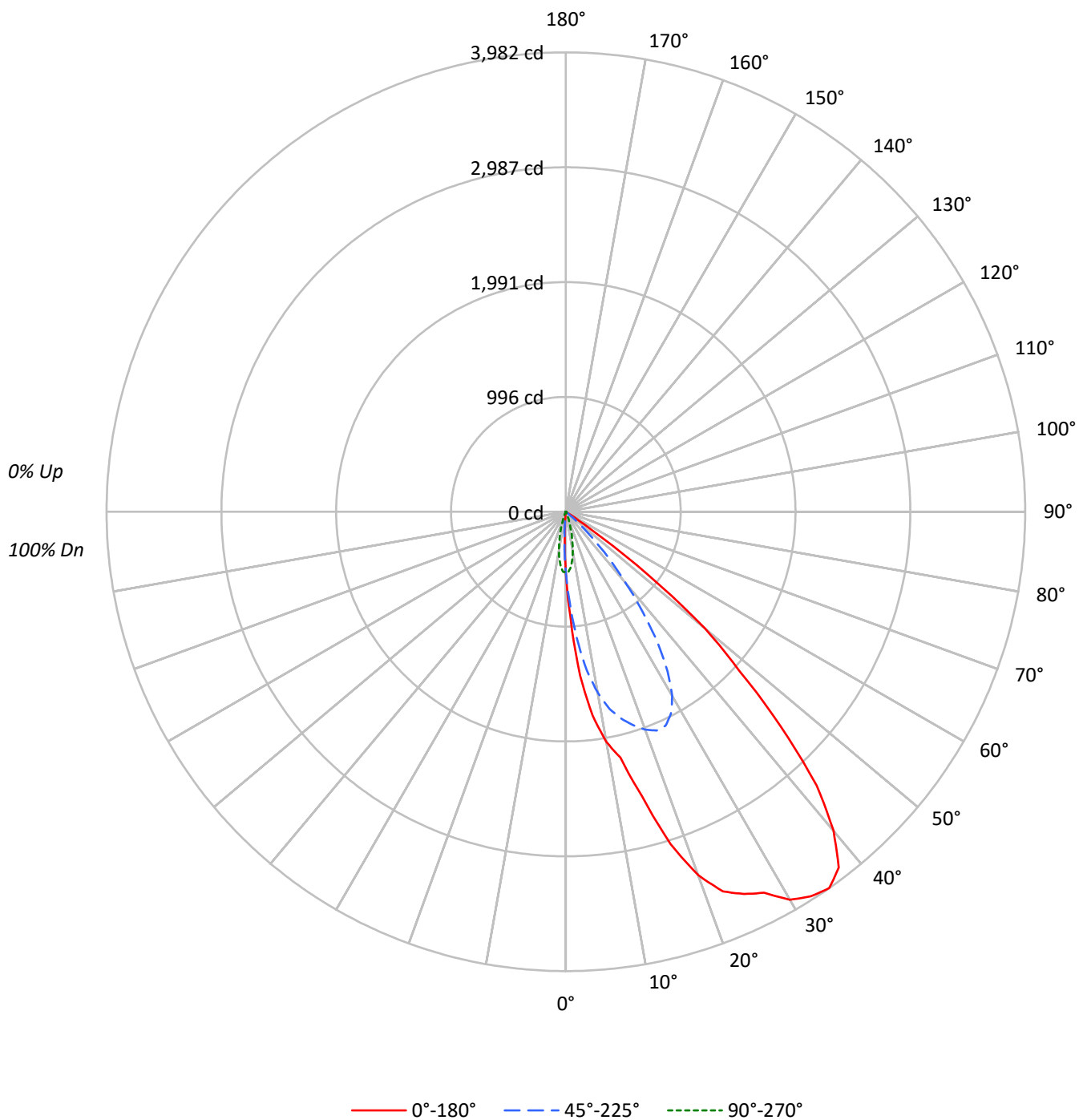
Lumens per Lamp: N/A
Luminaire Lumens: 1688.0 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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	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°	90279	90279	90279	90279	90279
5°	246493	189650	83553	16769	6293
10°	354008	278216	60421	1591	1329
15°	455748	330939	32147	535	0
20°	614266	368219	12224	0	0
25°	694756	388985	3173	0	0
30°	772275	366708	298	0	0
35°	837175	292430	0	0	0
40°	811400	183611	0	0	0
45°	643217	87462	0	0	0
50°	420973	10958	0	0	0
55°	72333	0	0	0	0
60°	0	0	517	0	0
65°	0	611	611	0	0
70°	0	755	1511	0	0
75°	0	998	1996	0	0
80°	0	1488	2975	1488	0
85°	0	2964	5928	2964	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 643217 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	3.7
10°-20°	240.5	14.2
20°-30°	450.2	26.7
30°-40°	525.4	31.1
40°-50°	342.7	20.3
50°-60°	63.6	3.8
60°-70°	0.6	0.0
70°-80°	1.2	0.1
80°-90°	1.4	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°	753.0	44.6
0°-40°	1278.5	75.7
0°-60°	1684.8	99.8
0°-90°	1688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1688.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	524	524	524	524	524	
5°	1426	1097	483	97	36	153
15°	2556	1856	180	3	0	762
25°	3656	2047	17	0	0	1691
35°	3982	1391	0	0	0	2442
45°	2641	359	0	0	0	2008
55°	241	0	0	0	0	419
65°	0	2	2	0	0	0
75°	0	2	3	0	0	0
85°	0	2	3	2	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°	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2
2.5°	924.3	931.8	916.7	910.6	890.9	895.5	862.1	848.5	827.3	792.4	775.8
5°	1425.8	1412.1	1400.0	1374.3	1359.1	1318.2	1272.7	1221.2	1159.1	1097.0	1025.8
7.5°	1783.4	1772.7	1768.2	1747.0	1716.7	1674.3	1615.2	1550.0	1469.7	1386.4	1278.8
10°	2024.3	2013.7	1995.5	1974.3	1950.0	1915.2	1857.6	1786.4	1698.5	1590.9	1465.2
12.5°	2181.8	2180.3	2150.0	2125.8	2095.5	2065.2	2006.1	1948.5	1862.1	1751.5	1609.1
15°	2556.1	2531.8	2492.5	2424.3	2339.4	2260.6	2165.2	2074.3	1980.3	1856.1	1697.0
17.5°	3022.8	2995.5	2928.8	2842.5	2706.1	2556.1	2392.4	2248.5	2107.6	1939.4	1751.5
20°	3351.6	3340.9	3284.9	3184.9	3039.4	2840.9	2625.8	2422.8	2224.3	2009.1	1777.3
22.5°	3562.2	3556.1	3533.4	3465.2	3316.7	3094.0	2816.7	2544.0	2304.6	2053.1	1769.7
25°	3656.1	3663.7	3666.7	3633.4	3513.7	3286.4	2957.6	2636.4	2350.0	2047.0	1712.1
27.5°	3722.8	3722.8	3734.9	3719.7	3598.5	3359.1	3012.2	2668.2	2334.9	1972.7	1590.9
30°	3883.4	3880.3	3887.9	3847.0	3678.8	3381.9	2987.9	2616.7	2248.5	1844.0	1416.7
32.5°	3953.1	3956.1	3954.6	3889.4	3694.0	3366.7	2928.8	2518.2	2089.4	1642.4	1186.4
35°	3981.9	3968.2	3912.2	3763.7	3516.7	3165.2	2762.2	2351.5	1866.7	1390.9	936.4
37.5°	3886.4	3847.0	3722.8	3519.7	3218.2	2880.3	2486.4	2053.1	1571.2	1090.9	704.6
40°	3609.1	3557.6	3401.6	3156.1	2880.3	2575.8	2160.6	1703.0	1228.8	816.7	493.9
42.5°	3216.7	3157.6	2989.4	2775.8	2524.3	2204.6	1790.9	1333.3	900.0	563.6	313.6
45°	2640.9	2607.6	2510.6	2330.3	2083.4	1751.5	1372.7	972.7	622.7	359.1	160.6
47.5°	2042.4	2000.0	1930.3	1806.1	1600.0	1284.9	960.6	660.6	400.0	177.3	33.3
50°	1571.2	1521.2	1436.4	1298.5	1083.3	857.6	622.7	412.1	203.0	40.9	1.5
52.5°	904.6	915.2	874.3	786.4	666.7	513.6	360.6	207.6	45.5	1.5	0.0
55°	240.9	260.6	254.5	274.2	240.9	203.0	150.0	39.4	3.0	0.0	0.0
57.5°	0.0	0.0	1.5	3.0	9.1	13.6	4.5	1.5	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	1.5	1.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
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°	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2
2.5°	737.9	706.1	666.7	521.2	392.4	281.8	219.7	203.0
5°	957.6	880.3	780.3	483.3	242.4	97.0	43.9	36.4
7.5°	1165.2	1051.5	871.2	422.7	122.7	24.2	12.1	10.6
10°	1325.8	1172.7	937.9	345.5	45.5	9.1	7.6	7.6
12.5°	1436.4	1250.0	962.1	262.1	16.7	4.5	4.5	3.0
15°	1500.0	1280.3	939.4	180.3	6.1	3.0	0.0	0.0
17.5°	1519.7	1268.2	878.8	113.6	1.5	0.0	0.0	0.0
20°	1503.0	1209.1	783.3	66.7	0.0	0.0	0.0	0.0
22.5°	1448.5	1116.7	668.2	36.4	0.0	0.0	0.0	0.0
25°	1347.0	986.4	533.3	16.7	0.0	0.0	0.0	0.0
27.5°	1181.8	818.2	401.5	6.1	0.0	0.0	0.0	0.0
30°	993.9	637.9	284.9	1.5	0.0	0.0	0.0	0.0
32.5°	775.8	469.7	183.3	0.0	0.0	0.0	0.0	0.0
35°	583.3	328.8	109.1	0.0	0.0	0.0	0.0	0.0
37.5°	406.1	207.6	57.6	0.0	0.0	0.0	0.0	0.0
40°	253.0	112.1	19.7	0.0	0.0	0.0	0.0	0.0
42.5°	140.9	39.4	1.5	0.0	0.0	0.0	0.0	0.0
45°	33.3	3.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.5	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	1.5	0.0	0.0	0.0	0.0
60°	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0
62.5°	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0
65°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
67.5°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
70°	1.5	1.5	1.5	3.0	1.5	0.0	0.0	0.0
72.5°	1.5	1.5	3.0	3.0	1.5	0.0	0.0	0.0
75°	1.5	1.5	3.0	3.0	1.5	0.0	0.0	0.0
77.5°	1.5	3.0	3.0	3.0	1.5	1.5	0.0	0.0
80°	1.5	3.0	3.0	3.0	3.0	1.5	0.0	0.0
82.5°	1.5	3.0	3.0	3.0	3.0	1.5	0.0	0.0
85°	1.5	3.0	3.0	3.0	1.5	1.5	0.0	0.0
87.5°	1.5	3.0	3.0	3.0	3.0	1.5	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)