

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: P1311807

Luminaire Tested: P3SQAS24R459050D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311807
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: P3SQAS24R459050D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

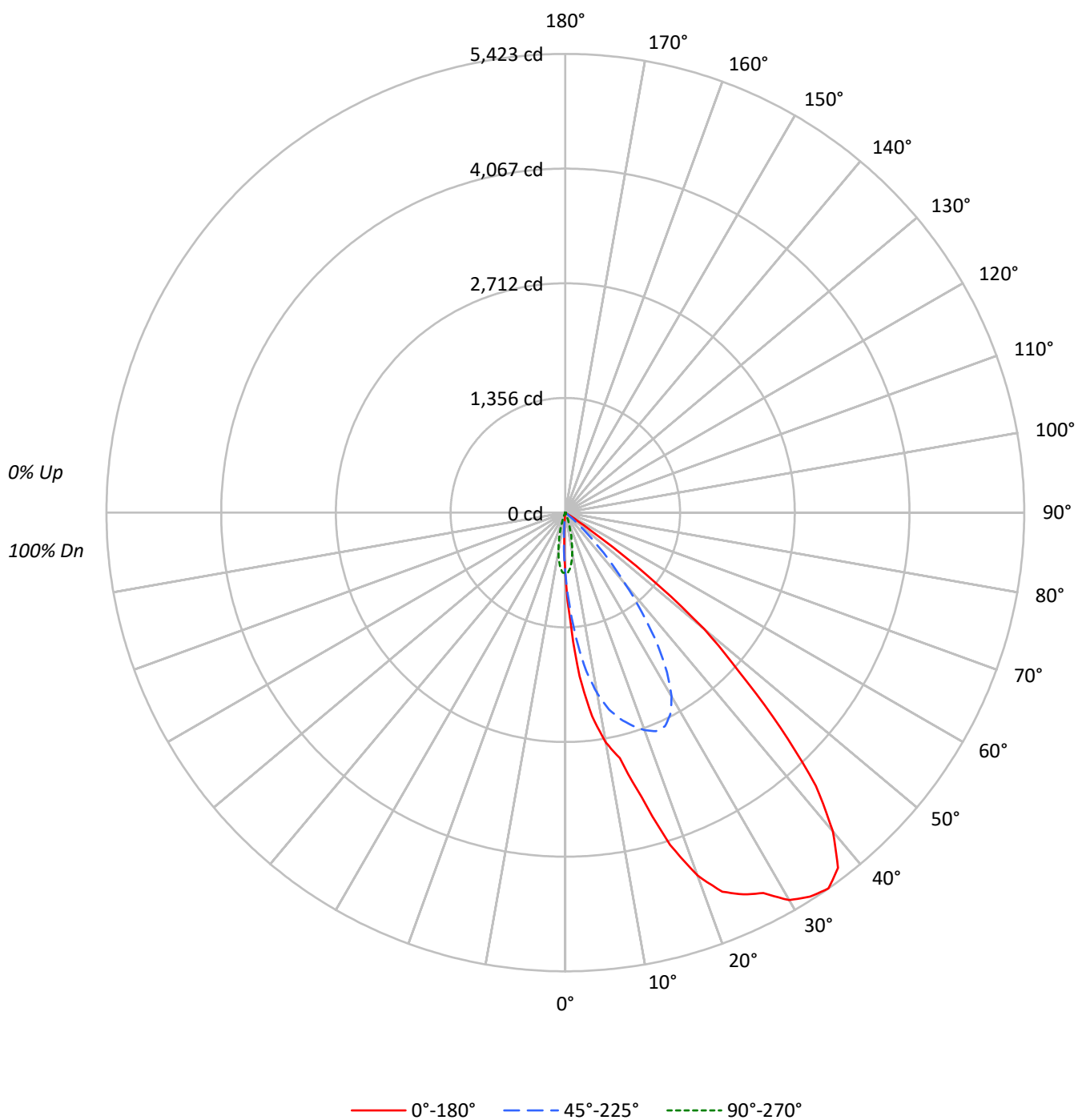
Lumens per Lamp: N/A
Luminaire Lumens: 2299.0 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	122967	122967	122967	122967	122967
5°	335717	258301	113807	22838	8558
10°	482143	378929	82281	2169	1801
15°	620709	450720	43790	731	0
20°	836598	501497	16641	0	0
25°	946238	529775	4314	0	0
30°	1051800	499431	418	0	0
35°	1140201	398288	0	0	0
40°	1105106	250068	0	0	0
45°	876060	119125	0	0	0
50°	573372	14924	0	0	0
55°	98516	0	0	0	0
60°	0	0	723	0	0
65°	0	856	856	0	0
70°	0	1057	2065	0	0
75°	0	1397	2728	0	0
80°	0	2083	4066	2083	0
85°	0	4150	8102	4150	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 876060 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	3.7
10°-20°	327.5	14.2
20°-30°	613.1	26.7
30°-40°	715.6	31.1
40°-50°	466.7	20.3
50°-60°	86.6	3.8
60°-70°	0.8	0.0
70°-80°	1.7	0.1
80°-90°	1.9	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°	1025.6	44.6
0°-40°	1741.3	75.7
0°-60°	2294.6	99.8
0°-90°	2299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2299.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	714	714	714	714	714	
5°	1942	1494	658	132	50	208
15°	3481	2528	246	4	0	1037
25°	4980	2788	23	0	0	2303
35°	5423	1894	0	0	0	3326
45°	3597	489	0	0	0	2735
55°	328	0	0	0	0	570
65°	0	2	2	0	0	0
75°	0	2	4	0	0	0
85°	0	2	4	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°	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
2.5°	1258.8	1269.1	1248.5	1240.2	1213.4	1219.6	1174.2	1155.6	1126.7	1079.3	1056.6
5°	1941.9	1923.3	1906.8	1871.7	1851.1	1795.3	1733.4	1663.3	1578.7	1494.1	1397.1
7.5°	2428.9	2414.4	2408.2	2379.3	2338.1	2280.3	2199.8	2111.1	2001.7	1888.2	1741.7
10°	2757.0	2742.5	2717.8	2688.9	2655.9	2608.4	2530.0	2433.0	2313.3	2166.8	1995.5
12.5°	2971.6	2969.5	2928.3	2895.2	2854.0	2812.7	2732.2	2653.8	2536.2	2385.5	2191.6
15°	3481.3	3448.3	3394.6	3301.8	3186.2	3078.9	2948.9	2825.1	2697.1	2527.9	2311.2
17.5°	4116.9	4079.8	3989.0	3871.3	3685.6	3481.3	3258.4	3062.4	2870.5	2641.4	2385.5
20°	4564.7	4550.3	4473.9	4337.7	4139.6	3869.3	3576.2	3299.7	3029.4	2736.3	2420.6
22.5°	4851.5	4843.3	4812.3	4719.5	4517.2	4213.9	3836.2	3464.8	3138.7	2796.2	2410.3
25°	4979.5	4989.8	4993.9	4948.5	4785.5	4476.0	4028.2	3590.7	3200.7	2787.9	2331.9
27.5°	5070.3	5070.3	5086.8	5066.2	4901.1	4575.0	4102.5	3634.0	3180.0	2686.8	2166.8
30°	5289.0	5284.9	5295.2	5239.5	5010.4	4606.0	4069.4	3563.9	3062.4	2511.4	1929.5
32.5°	5384.0	5388.1	5386.0	5297.3	5031.1	4585.3	3989.0	3429.7	2845.7	2237.0	1615.8
35°	5423.2	5404.6	5328.2	5126.0	4789.6	4310.9	3762.0	3202.7	2542.4	1894.4	1275.3
37.5°	5293.2	5239.5	5070.3	4793.8	4383.1	3922.9	3386.4	2796.2	2140.0	1485.8	959.6
40°	4915.5	4845.4	4632.8	4298.5	3922.9	3508.1	2942.7	2319.5	1673.6	1112.3	672.7
42.5°	4381.0	4300.6	4071.5	3780.5	3438.0	3002.5	2439.2	1816.0	1225.8	767.7	427.2
45°	3596.9	3551.5	3419.4	3173.8	2837.5	2385.5	1869.6	1324.8	848.1	489.1	218.7
47.5°	2781.7	2724.0	2629.0	2459.8	2179.2	1749.9	1308.3	899.7	544.8	241.4	45.4
50°	2140.0	2071.9	1956.3	1768.5	1475.5	1168.0	848.1	561.3	276.5	55.7	2.1
52.5°	1232.0	1246.4	1190.7	1071.0	908.0	699.6	491.1	282.7	61.9	2.1	0.0
55°	328.1	354.9	346.7	373.5	328.1	276.5	204.3	53.7	4.1	0.0	0.0
57.5°	0.0	0.0	2.1	4.1	12.4	18.6	6.2	2.1	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	2.1	2.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1
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°	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
2.5°	1005.0	961.6	908.0	709.9	534.5	383.8	299.2	276.5
5°	1304.2	1199.0	1062.8	658.3	330.2	132.1	59.8	49.5
7.5°	1586.9	1432.1	1186.6	575.7	167.2	33.0	16.5	14.4
10°	1805.7	1597.2	1277.4	470.5	61.9	12.4	10.3	10.3
12.5°	1956.3	1702.5	1310.4	357.0	22.7	6.2	6.2	4.1
15°	2043.0	1743.7	1279.4	245.6	8.3	4.1	0.0	0.0
17.5°	2069.8	1727.2	1196.9	154.8	2.1	0.0	0.0	0.0
20°	2047.1	1646.8	1066.9	90.8	0.0	0.0	0.0	0.0
22.5°	1972.8	1520.9	910.1	49.5	0.0	0.0	0.0	0.0
25°	1834.5	1343.4	726.4	22.7	0.0	0.0	0.0	0.0
27.5°	1609.6	1114.3	546.9	8.3	0.0	0.0	0.0	0.0
30°	1353.7	868.8	388.0	2.1	0.0	0.0	0.0	0.0
32.5°	1056.6	639.7	249.7	0.0	0.0	0.0	0.0	0.0
35°	794.5	447.8	148.6	0.0	0.0	0.0	0.0	0.0
37.5°	553.0	282.7	78.4	0.0	0.0	0.0	0.0	0.0
40°	344.6	152.7	26.8	0.0	0.0	0.0	0.0	0.0
42.5°	191.9	53.7	2.1	0.0	0.0	0.0	0.0	0.0
45°	45.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2.1	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	2.1	0.0	0.0	0.0	0.0
60°	0.0	2.1	2.1	2.1	0.0	0.0	0.0	0.0
62.5°	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0
65°	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0
67.5°	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0
70°	2.1	2.1	2.1	4.1	2.1	0.0	0.0	0.0
72.5°	2.1	2.1	4.1	4.1	2.1	0.0	0.0	0.0
75°	2.1	2.1	4.1	4.1	2.1	0.0	0.0	0.0
77.5°	2.1	4.1	4.1	4.1	2.1	2.1	0.0	0.0
80°	2.1	4.1	4.1	4.1	4.1	2.1	0.0	0.0
82.5°	2.1	4.1	4.1	4.1	4.1	2.1	0.0	0.0
85°	2.1	4.1	4.1	4.1	2.1	2.1	0.0	0.0
87.5°	2.1	4.1	4.1	4.1	4.1	2.1	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)