

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: P1310731

Luminaire Tested: P3SQAS24R459040D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310731
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: P3SQAS24R459040D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

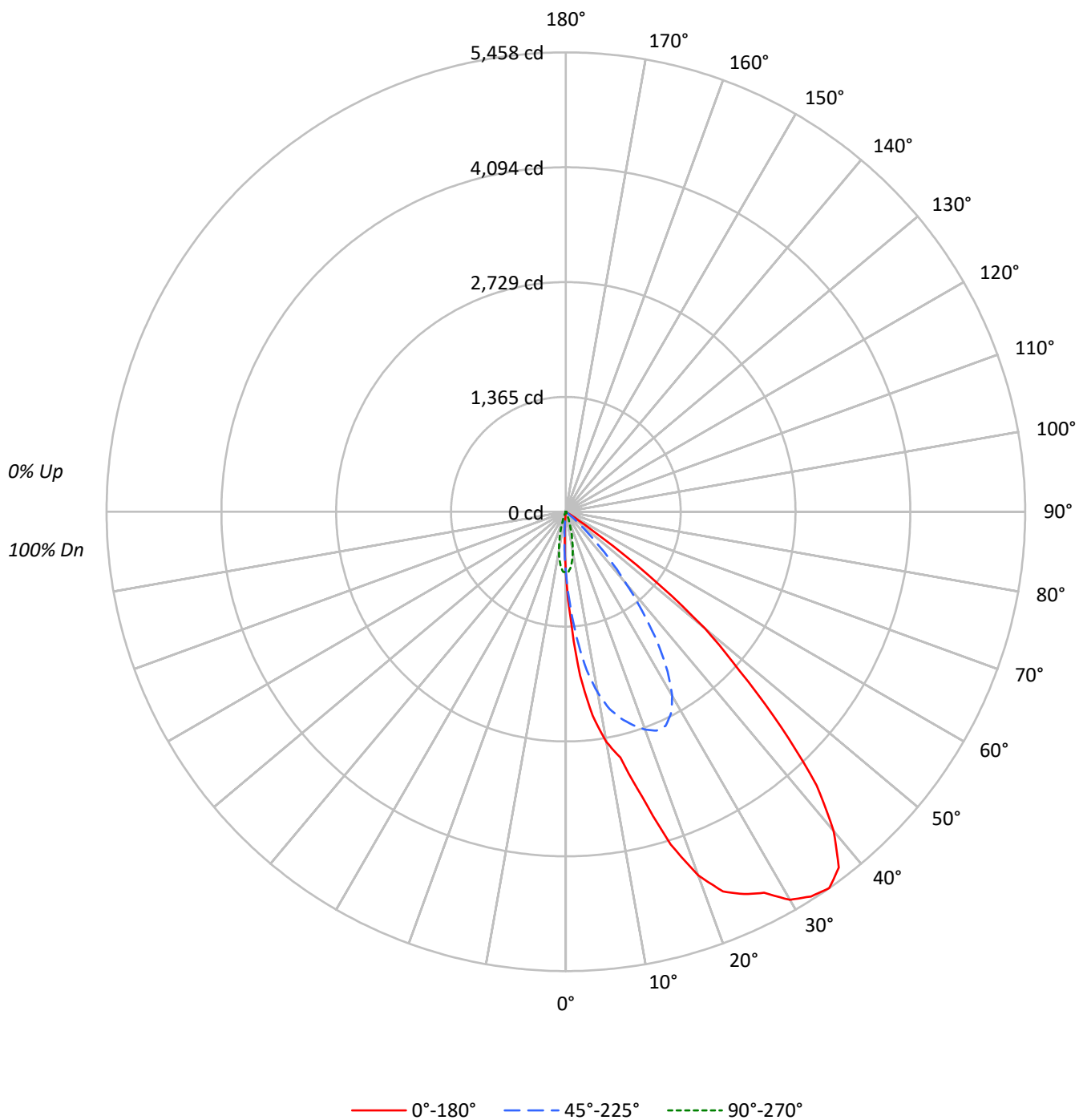
Lumens per Lamp: N/A
Luminaire Lumens: 2314.0 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1310731

CATALOG NUMBER: P3SQAS24R459040D010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1310731

CATALOG NUMBER: P3SQAS24R459040D010 E3SQCA301MMS

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	0
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°	123776	123776	123776	123776	123776
5°	337895	259978	114551	22976	8609
10°	485290	381395	82823	2186	1819
15°	624756	453661	44075	749	0
20°	842059	504777	16751	0	0
25°	952414	533234	4333	0	0
30°	1058661	502692	418	0	0
35°	1147622	400895	0	0	0
40°	1112323	251687	0	0	0
45°	881759	119904	0	0	0
50°	577096	15031	0	0	0
55°	99176	0	0	0	0
60°	0	0	723	0	0
65°	0	856	856	0	0
70°	0	1057	2115	0	0
75°	0	1397	2795	0	0
80°	0	2083	4166	2083	0
85°	0	4150	8299	4150	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 881759 cd/sqm

TEST NUMBER: P1310731

CATALOG NUMBER: P3SQAS24R459040D010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	3.7
10°-20°	329.7	14.2
20°-30°	617.1	26.7
30°-40°	720.3	31.1
40°-50°	469.7	20.3
50°-60°	87.2	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°	1032.3	44.6
0°-40°	1752.6	75.7
0°-60°	2309.6	99.8
0°-90°	2314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2314.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	719	719	719	719	719	
5°	1954	1504	663	133	50	209
15°	3504	2544	247	4	0	1044
25°	5012	2806	23	0	0	2318
35°	5458	1907	0	0	0	3348
45°	3620	492	0	0	0	2753
55°	330	0	0	0	0	574
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	

TEST NUMBER: P1310731

CATALOG NUMBER: P3SQAS24R459040D010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7
2.5°	1267.0	1277.4	1256.6	1248.3	1221.3	1227.5	1181.9	1163.2	1134.1	1086.3	1063.5
5°	1954.5	1935.8	1919.2	1883.9	1863.1	1807.1	1744.7	1674.1	1589.0	1503.8	1406.2
7.5°	2444.7	2430.2	2423.9	2394.9	2353.3	2295.2	2214.2	2124.8	2014.8	1900.5	1753.0
10°	2775.0	2760.4	2735.5	2706.4	2673.2	2625.4	2546.5	2448.9	2328.4	2180.9	2008.5
12.5°	2991.0	2988.9	2947.4	2914.1	2872.6	2831.0	2750.0	2671.1	2552.7	2401.1	2205.9
15°	3504.0	3470.8	3416.8	3323.3	3207.0	3099.0	2968.1	2843.5	2714.7	2544.4	2326.3
17.5°	4143.8	4106.4	4015.0	3896.6	3709.7	3504.0	3279.7	3082.4	2889.2	2658.7	2401.1
20°	4594.5	4579.9	4503.1	4366.0	4166.6	3894.5	3599.6	3321.2	3049.1	2754.2	2436.4
22.5°	4883.2	4874.9	4843.7	4750.3	4546.7	4241.4	3861.3	3487.4	3159.2	2814.4	2426.0
25°	5012.0	5022.4	5026.5	4980.8	4816.7	4505.2	4054.4	3614.1	3221.5	2806.1	2347.1
27.5°	5103.4	5103.4	5120.0	5099.2	4933.0	4604.9	4129.2	3657.7	3200.8	2704.3	2180.9
30°	5323.5	5319.4	5329.8	5273.7	5043.1	4636.0	4096.0	3587.1	3082.4	2527.8	1942.1
32.5°	5419.1	5423.2	5421.2	5331.8	5063.9	4615.3	4015.0	3452.1	2864.3	2251.5	1626.3
35°	5458.5	5439.9	5363.0	5159.4	4820.9	4339.0	3786.5	3223.6	2559.0	1906.8	1283.6
37.5°	5327.7	5273.7	5103.4	4825.0	4411.7	3948.5	3408.5	2814.4	2153.9	1495.5	965.8
40°	4947.6	4877.0	4663.0	4326.5	3948.5	3531.0	2961.9	2334.6	1684.5	1119.5	677.1
42.5°	4409.6	4328.6	4098.1	3805.2	3460.4	3022.1	2455.1	1827.8	1233.8	772.7	430.0
45°	3620.3	3574.6	3441.7	3194.5	2856.0	2401.1	1881.8	1333.5	853.7	492.3	220.2
47.5°	2799.9	2741.7	2646.2	2475.9	2193.4	1761.4	1316.9	905.6	548.3	243.0	45.7
50°	2153.9	2085.4	1969.1	1780.1	1485.1	1175.6	853.7	565.0	278.3	56.1	2.1
52.5°	1240.0	1254.6	1198.5	1078.0	913.9	704.1	494.3	284.6	62.3	2.1	0.0
55°	330.3	357.3	348.9	376.0	330.3	278.3	205.6	54.0	4.2	0.0	0.0
57.5°	0.0	0.0	2.1	4.2	12.5	18.7	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

TEST NUMBER: P1310731

CATALOG NUMBER: P3SQAS24R459040D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7
2.5°	1011.5	967.9	913.9	714.5	538.0	386.3	301.2	278.3
5°	1312.7	1206.8	1069.7	662.6	332.3	132.9	60.2	49.8
7.5°	1597.3	1441.5	1194.3	579.5	168.2	33.2	16.6	14.5
10°	1817.4	1607.7	1285.7	473.6	62.3	12.5	10.4	10.4
12.5°	1969.1	1713.6	1318.9	359.3	22.8	6.2	6.2	4.2
15°	2056.3	1755.1	1287.8	247.2	8.3	4.2	0.0	0.0
17.5°	2083.3	1738.5	1204.7	155.8	2.1	0.0	0.0	0.0
20°	2060.5	1657.5	1073.8	91.4	0.0	0.0	0.0	0.0
22.5°	1985.7	1530.8	916.0	49.8	0.0	0.0	0.0	0.0
25°	1846.5	1352.2	731.1	22.8	0.0	0.0	0.0	0.0
27.5°	1620.1	1121.6	550.4	8.3	0.0	0.0	0.0	0.0
30°	1362.6	874.4	390.5	2.1	0.0	0.0	0.0	0.0
32.5°	1063.5	643.9	251.3	0.0	0.0	0.0	0.0	0.0
35°	799.7	450.7	149.5	0.0	0.0	0.0	0.0	0.0
37.5°	556.7	284.6	78.9	0.0	0.0	0.0	0.0	0.0
40°	346.9	153.7	27.0	0.0	0.0	0.0	0.0	0.0
42.5°	193.2	54.0	2.1	0.0	0.0	0.0	0.0	0.0
45°	45.7	4.2	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	4.2	2.1	0.0	0.0	0.0
72.5°	2.1	2.1	4.2	4.2	2.1	0.0	0.0	0.0
75°	2.1	2.1	4.2	4.2	2.1	0.0	0.0	0.0
77.5°	2.1	4.2	4.2	4.2	2.1	2.1	0.0	0.0
80°	2.1	4.2	4.2	4.2	4.2	2.1	0.0	0.0
82.5°	2.1	4.2	4.2	4.2	4.2	2.1	0.0	0.0
85°	2.1	4.2	4.2	4.2	2.1	2.1	0.0	0.0
87.5°	2.1	4.2	4.2	4.2	4.2	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)