

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: P1307376

Luminaire Tested: P3SQAS24R459027D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307376
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: P3SQAS24R459027D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

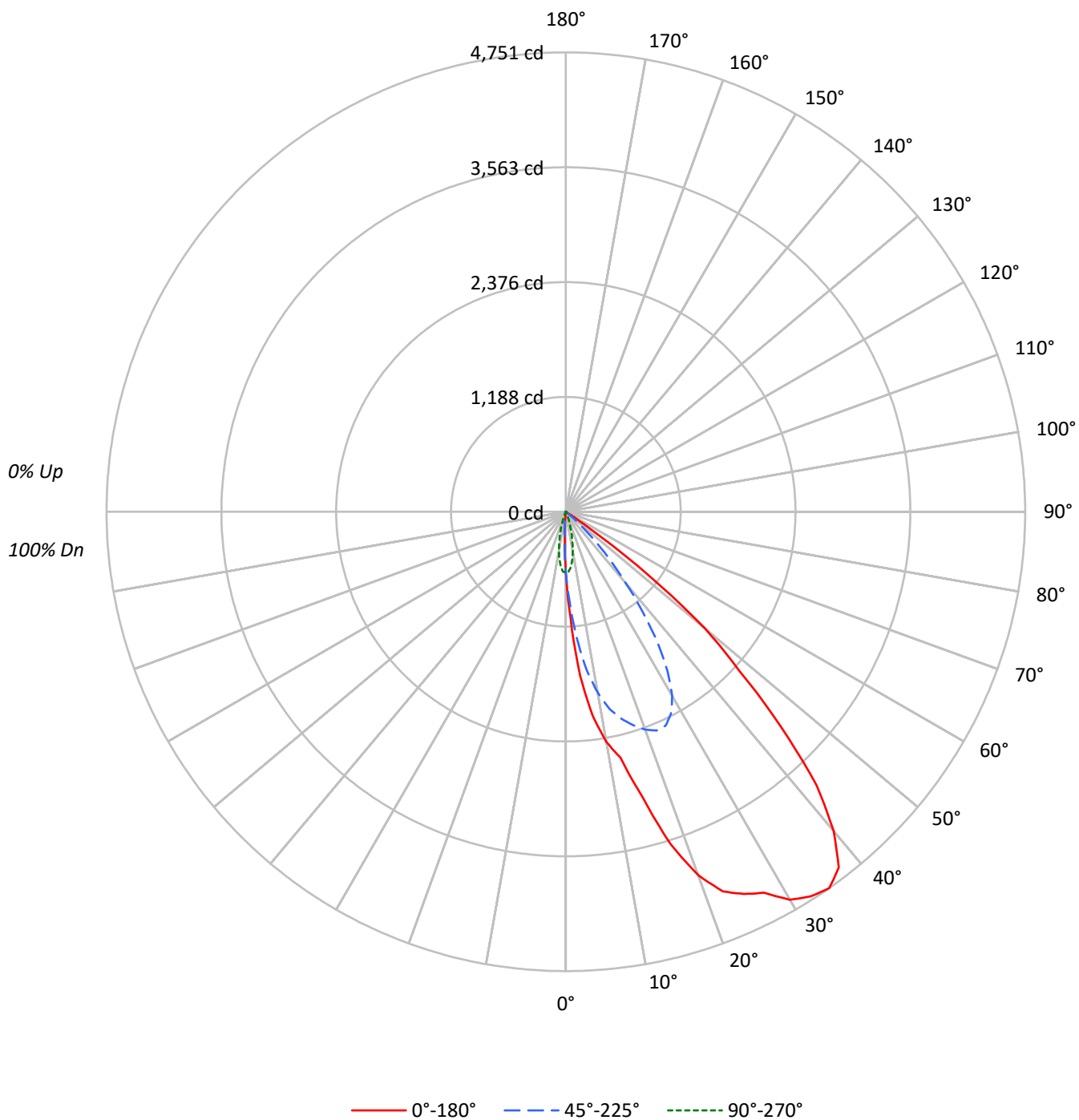
Lumens per Lamp: N/A
Luminaire Lumens: 2014.0 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1307376

CATALOG NUMBER: P3SQAS24R459027D010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1307376

CATALOG NUMBER: P3SQAS24R459027D010 E3SQCA301MB

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°	107725	107725	107725	107725	107725
5°	294087	226266	99700	20002	7503
10°	422369	331956	72085	1889	1574
15°	543755	394841	38352	642	0
20°	732882	439330	14570	0	0
25°	828934	464102	3782	0	0
30°	921424	437524	358	0	0
35°	998853	348923	0	0	0
40°	968123	219065	0	0	0
45°	767456	104341	0	0	0
50°	502290	13075	0	0	0
55°	86295	0	0	0	0
60°	0	0	620	0	0
65°	0	734	734	0	0
70°	0	906	1813	0	0
75°	0	1198	2396	0	0
80°	0	1785	3570	1785	0
85°	0	3557	7114	3557	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 767456 cd/sqm

TEST NUMBER: P1307376

CATALOG NUMBER: P3SQAS24R459027D010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	3.7
10°-20°	286.9	14.2
20°-30°	537.1	26.7
30°-40°	626.9	31.1
40°-50°	408.8	20.3
50°-60°	75.9	3.8
60°-70°	0.7	0.0
70°-80°	1.5	0.1
80°-90°	1.7	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°	898.5	44.6
0°-40°	1525.4	75.7
0°-60°	2010.1	99.8
0°-90°	2014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2014.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	626	626	626	626	626	
5°	1701	1309	577	116	43	182
15°	3050	2214	215	4	0	909
25°	4362	2442	20	0	0	2017
35°	4751	1660	0	0	0	2914
45°	3151	428	0	0	0	2396
55°	287	0	0	0	0	500
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: P1307376

CATALOG NUMBER: P3SQAS24R459027D010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5
2.5°	1102.8	1111.8	1093.7	1086.5	1063.0	1068.4	1028.6	1012.4	987.1	945.5	925.6
5°	1701.1	1684.9	1670.4	1639.7	1621.6	1572.8	1518.5	1457.1	1383.0	1308.8	1223.9
7.5°	2127.8	2115.1	2109.7	2084.4	2048.2	1997.6	1927.1	1849.4	1753.6	1654.1	1525.8
10°	2415.2	2402.6	2380.9	2355.5	2326.6	2285.0	2216.3	2131.4	2026.5	1898.2	1748.1
12.5°	2603.2	2601.4	2565.3	2536.3	2500.2	2464.0	2393.5	2324.8	2221.8	2089.8	1919.9
15°	3049.7	3020.8	2973.8	2892.5	2791.2	2697.2	2583.3	2474.9	2362.8	2214.5	2024.7
17.5°	3606.5	3574.0	3494.5	3391.4	3228.7	3049.7	2854.5	2682.8	2514.6	2314.0	2089.8
20°	3998.8	3986.2	3919.3	3800.0	3626.4	3389.6	3132.9	2890.7	2653.8	2397.1	2120.5
22.5°	4250.1	4242.9	4215.8	4134.4	3957.2	3691.5	3360.7	3035.3	2749.6	2449.6	2111.5
25°	4362.2	4371.2	4374.8	4335.1	4192.3	3921.1	3528.8	3145.6	2803.9	2442.3	2042.8
27.5°	4441.7	4441.7	4456.2	4438.1	4293.5	4007.9	3593.9	3183.5	2785.8	2353.7	1898.2
30°	4633.4	4629.7	4638.8	4590.0	4389.3	4035.0	3565.0	3122.1	2682.8	2200.1	1690.3
32.5°	4716.5	4720.1	4718.3	4640.6	4407.4	4016.9	3494.5	3004.5	2492.9	1959.6	1415.5
35°	4750.9	4734.6	4667.7	4490.5	4195.9	3776.5	3295.6	2805.7	2227.2	1659.6	1117.2
37.5°	4637.0	4590.0	4441.7	4199.5	3839.7	3436.6	2966.6	2449.6	1874.7	1301.6	840.6
40°	4306.2	4244.7	4058.5	3765.6	3436.6	3073.2	2577.9	2032.0	1466.1	974.4	589.3
42.5°	3837.9	3767.4	3566.8	3311.9	3011.8	2630.3	2136.8	1590.9	1073.8	672.5	374.2
45°	3151.0	3111.2	2995.5	2780.4	2485.7	2089.8	1637.9	1160.6	743.0	428.4	191.6
47.5°	2436.9	2386.3	2303.1	2154.9	1909.0	1533.0	1146.1	788.2	477.3	211.5	39.8
50°	1874.7	1815.0	1713.8	1549.3	1292.6	1023.2	743.0	491.7	242.2	48.8	1.8
52.5°	1079.2	1091.9	1043.1	938.2	795.4	612.8	430.3	247.7	54.2	1.8	0.0
55°	287.4	310.9	303.7	327.2	287.4	242.2	179.0	47.0	3.6	0.0	0.0
57.5°	0.0	0.0	1.8	3.6	10.8	16.3	5.4	1.8	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	1.8	1.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

TEST NUMBER: P1307376

CATALOG NUMBER: P3SQAS24R459027D010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5
2.5°	880.4	842.4	795.4	621.9	468.2	336.2	262.1	242.2
5°	1142.5	1050.3	931.0	576.7	289.2	115.7	52.4	43.4
7.5°	1390.2	1254.6	1039.5	504.4	146.4	28.9	14.5	12.7
10°	1581.8	1399.2	1119.0	412.2	54.2	10.8	9.0	9.0
12.5°	1713.8	1491.4	1147.9	312.7	19.9	5.4	5.4	3.6
15°	1789.7	1527.6	1120.8	215.1	7.2	3.6	0.0	0.0
17.5°	1813.2	1513.1	1048.5	135.6	1.8	0.0	0.0	0.0
20°	1793.3	1442.6	934.6	79.5	0.0	0.0	0.0	0.0
22.5°	1728.2	1332.3	797.2	43.4	0.0	0.0	0.0	0.0
25°	1607.1	1176.9	636.3	19.9	0.0	0.0	0.0	0.0
27.5°	1410.1	976.2	479.1	7.2	0.0	0.0	0.0	0.0
30°	1185.9	761.1	339.9	1.8	0.0	0.0	0.0	0.0
32.5°	925.6	560.4	218.7	0.0	0.0	0.0	0.0	0.0
35°	696.0	392.3	130.2	0.0	0.0	0.0	0.0	0.0
37.5°	484.5	247.7	68.7	0.0	0.0	0.0	0.0	0.0
40°	301.9	133.8	23.5	0.0	0.0	0.0	0.0	0.0
42.5°	168.1	47.0	1.8	0.0	0.0	0.0	0.0	0.0
45°	39.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.8	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	1.8	0.0	0.0	0.0	0.0
60°	0.0	1.8	1.8	1.8	0.0	0.0	0.0	0.0
62.5°	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0
65°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0
67.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0
70°	1.8	1.8	1.8	3.6	1.8	0.0	0.0	0.0
72.5°	1.8	1.8	3.6	3.6	1.8	0.0	0.0	0.0
75°	1.8	1.8	3.6	3.6	1.8	0.0	0.0	0.0
77.5°	1.8	3.6	3.6	3.6	1.8	1.8	0.0	0.0
80°	1.8	3.6	3.6	3.6	3.6	1.8	0.0	0.0
82.5°	1.8	3.6	3.6	3.6	3.6	1.8	0.0	0.0
85°	1.8	3.6	3.6	3.6	1.8	1.8	0.0	0.0
87.5°	1.8	3.6	3.6	3.6	3.6	1.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)