

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: P1309624

Luminaire Tested: P3SQAS24R509035D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R509035D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

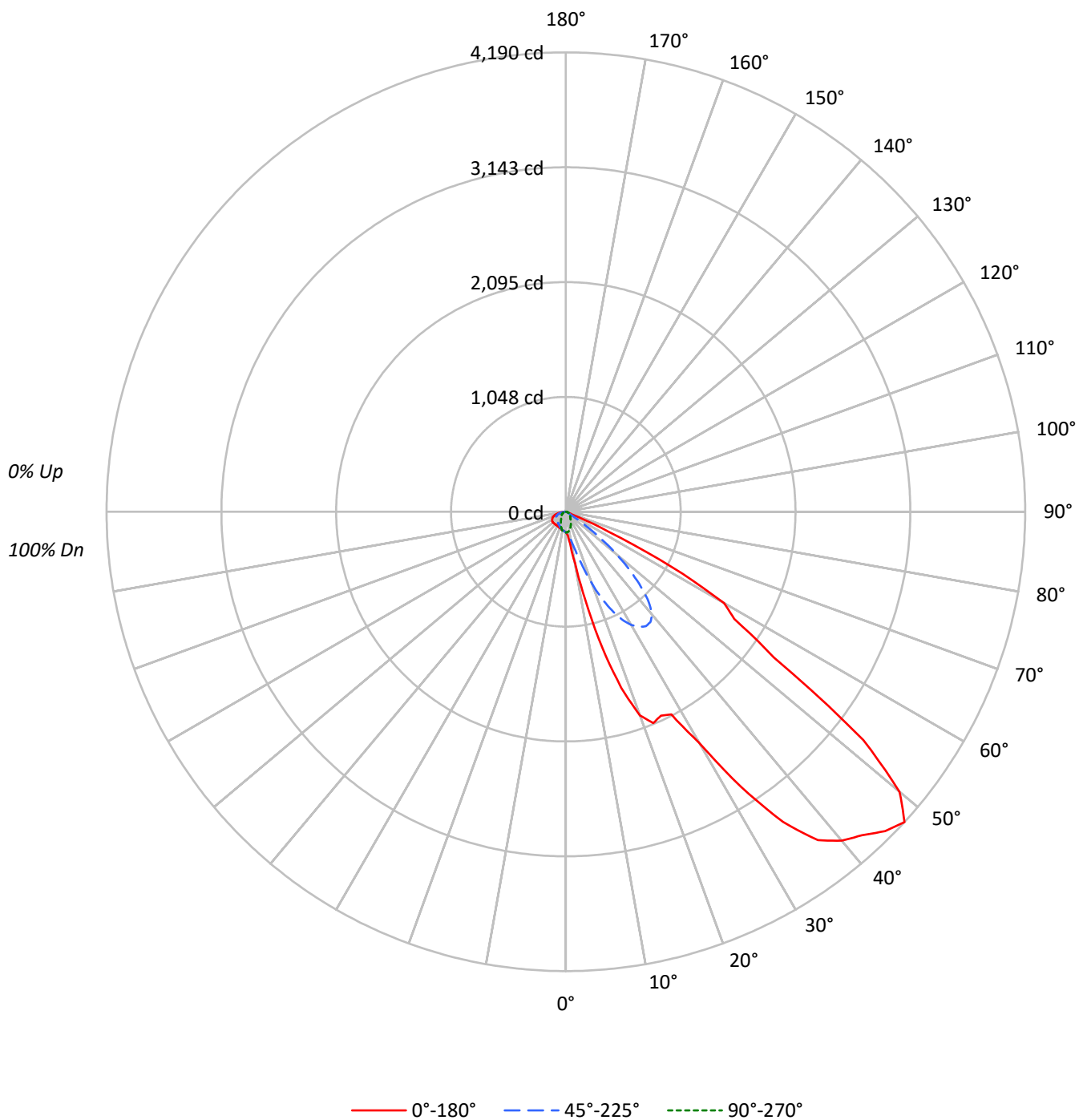
Lumens per Lamp: N/A
Luminaire Lumens: 2363.0 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1309624

CATALOG NUMBER: P3SQAS24R509035D010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1309624

CATALOG NUMBER: P3SQAS24R509035D010 E3SQCA451MB

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	32343	32343	32343	32343	32343
5°	38466	35994	32104	30704	30341
10°	82805	44612	30691	29625	29974
15°	229256	73138	27654	28385	29473
20°	362464	128311	23936	27308	28811
25°	389783	188487	20561	26376	29093
30°	483820	236630	17858	25972	30029
35°	726060	267768	15453	26176	31747
40°	880555	275315	13759	27068	33498
45°	1003173	236131	13420	28837	36777
50°	1064730	162956	13664	31160	41020
55°	695585	65577	13482	33719	45339
60°	573674	11263	13364	36546	49910
65°	172989	5827	12470	39081	54892
70°	7201	6143	12337	40082	59620
75°	6787	6787	12244	40724	65211
80°	6050	6050	12100	40465	66847
85°	3952	8102	16203	40311	64616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 1068173 cd/sqm

TEST NUMBER: P1309624

CATALOG NUMBER: P3SQAS24R509035D010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.6	0.8
10°-20°	111.9	4.7
20°-30°	287.7	12.2
30°-40°	516.7	21.9
40°-50°	690.2	29.2
50°-60°	525.7	22.2
60°-70°	159.5	6.8
70°-80°	38.1	1.6
80°-90°	13.8	0.6
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°	419.1	17.7
0°-40°	935.8	39.6
0°-60°	2151.6	91.1
0°-90°	2363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2363.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	188	188	188	188	188	
5°	222	208	186	178	176	29
15°	1286	410	155	159	165	378
25°	2051	992	108	139	153	979
35°	3453	1274	74	124	151	2120
45°	4119	970	55	118	151	3149
55°	2317	218	45	112	151	2305
65°	424	14	31	96	135	587
75°	10	10	18	61	98	11
85°	2	4	8	20	33	3
90°	0	0	0	0	0	

TEST NUMBER: P1309624

CATALOG NUMBER: P3SQAS24R509035D010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8	187.8
2.5°	200.0	200.0	200.0	200.0	200.0	200.0	198.0	198.0	198.0	193.9	189.8
5°	222.5	224.5	222.5	222.5	218.4	218.4	214.3	214.3	208.2	195.9	185.7
7.5°	291.9	289.8	287.8	279.6	273.5	259.2	253.1	242.9	224.5	195.9	181.7
10°	473.5	461.3	453.1	434.7	396.0	371.5	338.8	306.2	255.1	195.9	175.5
12.5°	822.5	820.5	796.0	734.8	679.7	604.1	524.5	444.9	314.3	191.9	167.4
15°	1285.8	1267.5	1232.8	1161.3	1063.4	945.0	802.1	661.3	410.2	185.7	155.1
17.5°	1681.8	1659.3	1632.8	1561.4	1449.1	1300.1	1128.7	934.8	540.9	177.6	142.9
20°	1977.7	1963.5	1941.0	1883.9	1777.7	1643.0	1451.2	1216.4	700.1	167.4	130.6
22.5°	2085.9	2083.9	2088.0	2067.5	2014.5	1908.3	1724.7	1479.7	857.2	155.1	118.4
25°	2051.2	2049.2	2075.7	2102.2	2114.5	2071.6	1930.8	1692.0	991.9	144.9	108.2
27.5°	2083.9	2077.8	2065.5	2069.6	2104.3	2128.8	2063.5	1855.3	1108.3	130.6	98.0
30°	2432.9	2398.2	2343.1	2249.2	2179.8	2173.7	2145.1	1983.9	1189.9	116.3	89.8
32.5°	2977.8	2935.0	2835.0	2661.5	2496.2	2369.6	2279.8	2092.0	1247.1	102.1	79.6
35°	3453.4	3422.8	3306.4	3135.0	2898.2	2661.5	2498.2	2251.2	1273.6	89.8	73.5
37.5°	3775.9	3763.6	3649.3	3465.6	3224.8	2945.2	2728.8	2414.5	1267.5	75.5	67.4
40°	3916.7	3880.0	3784.0	3628.9	3386.0	3135.0	2906.4	2518.6	1224.6	61.2	61.2
42.5°	4000.4	3959.6	3855.5	3708.5	3469.7	3202.4	2926.8	2473.7	1122.6	49.0	59.2
45°	4118.8	4075.9	3939.2	3782.0	3541.2	3230.9	2847.2	2314.5	969.5	36.7	55.1
47.5°	4190.2	4161.6	4059.6	3902.4	3610.6	3190.1	2663.5	2165.5	800.1	28.6	53.1
50°	3973.9	3945.3	3869.8	3761.6	3565.7	3053.4	2502.3	1924.7	608.2	22.5	51.0
52.5°	3420.7	3445.2	3459.5	3490.1	3347.3	2747.2	2261.4	1732.8	410.2	18.4	46.9
55°	2316.6	2353.3	2394.1	2516.6	2683.9	2445.1	2008.4	1498.1	218.4	18.4	44.9
57.5°	1820.6	1808.3	1796.1	1787.9	1918.6	2016.5	1765.5	1198.1	93.9	18.4	40.8
60°	1665.5	1628.7	1604.2	1610.4	1675.7	1636.9	1398.1	781.7	32.7	18.4	38.8
62.5°	1091.9	1120.5	1175.6	1269.5	1224.6	1051.1	812.3	310.2	16.3	18.4	34.7
65°	424.5	410.2	424.5	451.1	389.8	289.8	181.7	55.1	14.3	16.3	30.6
67.5°	57.1	51.0	38.8	24.5	22.5	20.4	16.3	14.3	14.3	16.3	28.6
70°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	12.2	12.2	14.3	24.5
72.5°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	14.3	20.4
75°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	12.2	18.4
77.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	10.2	14.3
80°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	8.2	12.2
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	6.1	6.1	8.2	10.2
85°	2.0	4.1	2.0	4.1	4.1	4.1	4.1	4.1	4.1	6.1	8.2
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	6.1	6.1
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: P1309624

CATALOG NUMBER: P3SQAS24R509035D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	187.8	187.8	187.8	187.8
2.5°	185.7	181.7	181.7	181.7
5°	181.7	177.6	177.6	175.5
7.5°	175.5	173.5	173.5	173.5
10°	171.4	169.4	171.4	171.4
12.5°	163.3	165.3	167.4	167.4
15°	155.1	159.2	163.3	165.3
17.5°	147.0	155.1	159.2	161.2
20°	138.8	149.0	155.1	157.2
22.5°	132.7	142.9	151.0	155.1
25°	124.5	138.8	149.0	153.1
27.5°	116.3	132.7	144.9	151.0
30°	110.2	130.6	144.9	151.0
32.5°	104.1	126.5	142.9	149.0
35°	100.0	124.5	142.9	151.0
37.5°	95.9	122.5	142.9	149.0
40°	93.9	120.4	142.9	149.0
42.5°	91.8	120.4	142.9	151.0
45°	87.8	118.4	142.9	151.0
47.5°	85.7	118.4	142.9	151.0
50°	83.7	116.3	142.9	153.1
52.5°	81.6	114.3	142.9	153.1
55°	77.6	112.3	140.8	151.0
57.5°	75.5	110.2	138.8	147.0
60°	71.4	106.1	134.7	144.9
62.5°	67.4	102.1	130.6	138.8
65°	61.2	95.9	124.5	134.7
67.5°	55.1	87.8	118.4	128.6
70°	49.0	79.6	110.2	118.4
72.5°	42.9	71.4	102.1	108.2
75°	36.7	61.2	89.8	98.0
77.5°	30.6	53.1	75.5	81.6
80°	22.5	40.8	61.2	67.4
82.5°	18.4	30.6	44.9	49.0
85°	12.2	20.4	28.6	32.7
87.5°	6.1	10.2	14.3	16.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)