

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: P1309933

Luminaire Tested: P3SQAS05R359040DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R359040DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

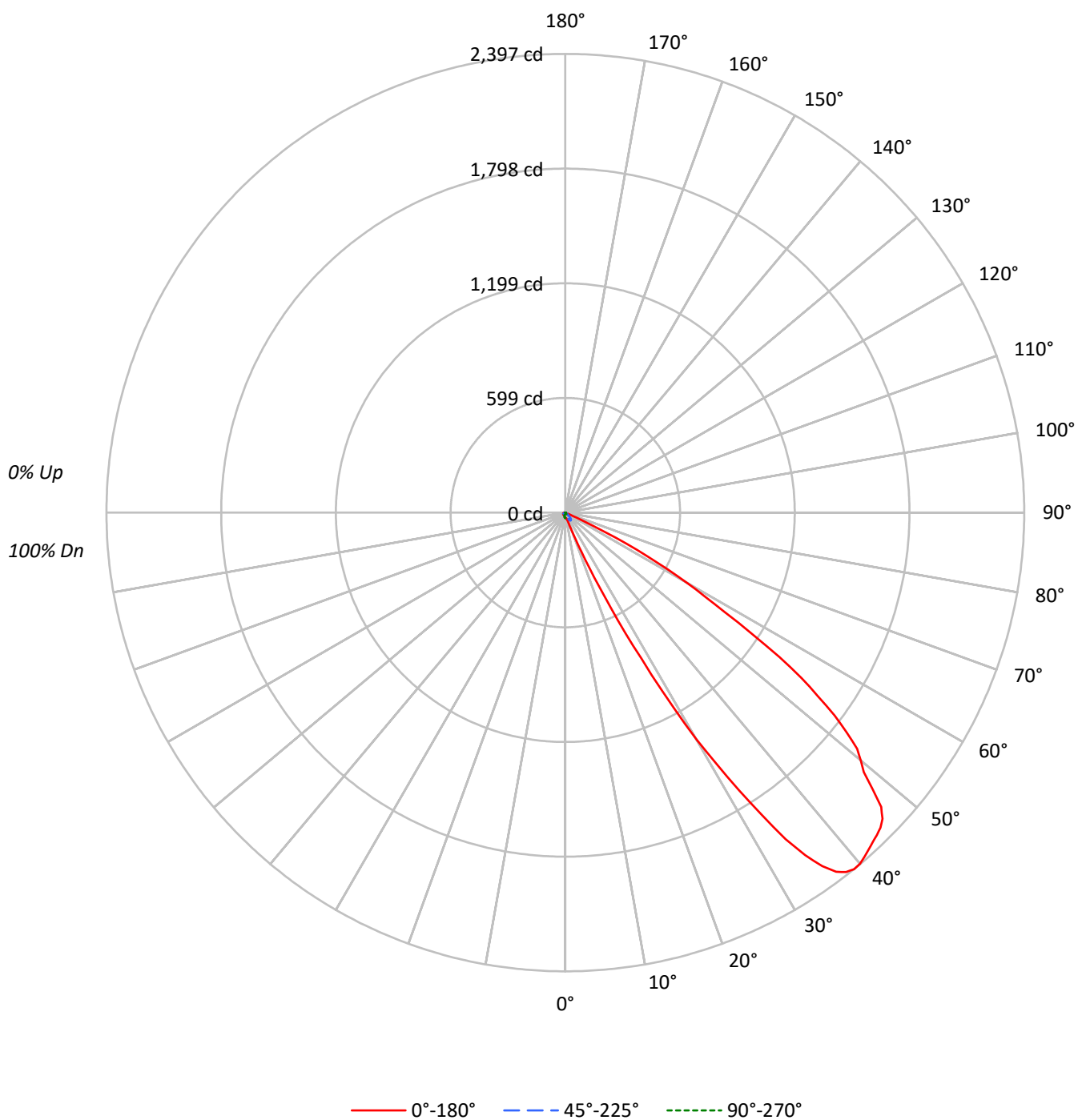
Lumens per Lamp: N/A
Luminaire Lumens: 597.0 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P1309933

CATALOG NUMBER: P3SQAS05R359040DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1309933

CATALOG NUMBER: P3SQAS05R359040DE010 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4736	4736	4736	4736	4736
5°	5117	5031	4650	4201	4097
10°	5369	4897	4145	3585	3585
15°	7685	4796	3370	3067	3174
20°	19262	5132	2676	2676	2969
25°	89408	6556	2052	2451	2774
30°	271790	8889	1611	2247	2784
35°	459343	10302	1367	2144	2712
40°	538446	10184	1102	2181	2900
45°	567031	7209	926	2363	3142
50°	539747	4340	857	2465	3456
55°	452283	1772	961	2762	4054
60°	253202	379	1102	3169	4443
65°	43685	204	1100	3505	5053
70°	806	252	1360	3777	5690
75°	732	333	1797	4325	6455
80°	496	496	2182	4860	7438
85°	0	988	4347	5335	8497

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 571044 cd/sqm

TEST NUMBER: P1309933

CATALOG NUMBER: P3SQAS05R359040DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.4
10°-20°	7.0	1.2
20°-30°	36.6	6.1
30°-40°	158.2	26.5
40°-50°	225.7	37.8
50°-60°	139.8	23.4
60°-70°	21.3	3.6
70°-80°	4.0	0.7
80°-90°	2.0	0.3
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°	46.1	7.7
0°-40°	204.3	34.2
0°-60°	569.8	95.4
0°-90°	597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	597.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	30	29	27	24	24	3
15°	43	27	19	17	18	16
25°	470	34	11	13	15	282
35°	2185	49	6	10	13	1312
45°	2328	30	4	10	13	1759
55°	1506	6	3	9	14	1283
65°	107	0	3	9	12	219
75°	1	0	3	6	10	1
85°	0	0	2	3	4	0
90°	0	0	0	0	0	

TEST NUMBER: P1309933

CATALOG NUMBER: P3SQAS05R359040DE010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
2.5°	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	27.5	26.9
5°	29.6	29.6	29.1	29.1	29.1	29.1	29.1	29.1	28.0	26.9	25.3
7.5°	30.2	30.2	29.6	29.6	29.6	29.6	29.1	28.6	27.5	25.3	23.7
10°	30.7	30.7	30.7	30.7	30.2	29.6	29.1	28.0	26.4	23.7	22.1
12.5°	34.5	34.5	34.0	32.9	31.8	30.7	29.6	27.5	24.3	21.6	19.9
15°	43.1	42.6	41.5	39.9	37.7	35.0	32.9	26.9	22.1	18.9	17.8
17.5°	60.4	59.3	57.7	52.3	47.4	42.6	38.3	26.9	19.9	16.7	15.6
20°	105.1	105.6	94.3	81.4	70.6	58.7	48.0	28.0	17.8	14.6	14.0
22.5°	219.3	210.7	183.8	152.5	116.4	90.0	67.9	30.7	15.6	12.4	12.4
25°	470.5	437.6	372.4	281.3	198.3	140.7	98.6	34.5	14.0	10.8	11.3
27.5°	859.0	829.4	698.4	526.0	349.2	212.3	133.7	39.3	12.4	9.2	10.2
30°	1366.7	1284.8	1113.9	862.3	583.7	325.0	179.5	44.7	10.2	8.1	9.7
31°	1525.1	1487.4	1279.4	997.5	683.9	385.9	198.9	46.3	9.7	8.1	9.2
32°	1713.2	1646.4	1459.9	1145.7	785.7	440.3	222.0	48.0	9.2	7.0	9.2
33°	1881.4	1816.7	1589.8	1276.2	888.7	502.3	246.8	48.5	8.1	7.0	8.6
34°	2058.1	1969.8	1745.0	1412.5	994.3	569.1	269.5	49.0	7.5	6.5	8.6
35°	2184.8	2096.4	1878.7	1520.3	1085.4	628.4	295.3	49.0	7.0	6.5	8.1
36°	2282.9	2205.3	1994.0	1631.3	1175.9	681.7	315.8	49.0	5.9	5.9	8.1
37°	2350.2	2276.4	2071.6	1726.7	1244.9	729.2	334.1	49.0	5.4	5.9	8.1
38°	2383.1	2321.7	2146.5	1796.2	1311.7	766.3	348.7	48.0	4.9	5.4	7.5
39°	2397.1	2347.0	2192.3	1855.0	1361.9	798.7	359.5	46.9	4.3	5.4	7.5
40°	2395.0	2351.3	2218.2	1895.4	1402.3	820.8	365.4	45.3	3.8	4.9	7.5
41°	2382.6	2344.8	2231.7	1929.9	1426.5	835.9	367.0	43.7	3.2	4.9	7.0
42°	2368.6	2334.1	2236.0	1948.2	1442.2	840.7	362.7	41.5	3.2	4.3	7.0
43°	2354.0	2322.2	2236.0	1954.1	1445.9	837.5	355.7	37.7	2.7	4.3	7.0
44°	2342.1	2312.0	2229.0	1952.5	1437.8	825.1	342.8	33.4	2.2	4.3	7.0
45°	2328.1	2298.5	2219.8	1942.3	1422.2	804.1	326.6	29.6	1.6	3.8	7.0
46°	2303.3	2280.2	2203.6	1921.3	1397.4	775.0	306.1	26.9	1.1	3.8	6.5
47°	2255.4	2235.4	2172.4	1890.0	1364.5	740.5	285.1	24.3	1.1	3.8	6.5
48°	2158.9	2158.4	2109.9	1831.8	1312.3	697.4	263.0	21.6	1.1	3.8	6.5
49°	2065.7	2056.0	1995.6	1729.4	1237.4	645.6	239.8	19.4	0.5	3.8	6.5
50°	2014.5	1993.5	1894.3	1608.7	1141.4	574.0	215.0	16.2	0.5	3.2	6.5
51°	1961.1	1931.0	1814.0	1499.8	1027.2	505.0	188.1	12.9	0.5	3.2	5.9
52°	1864.7	1836.1	1705.1	1395.8	916.2	434.4	162.2	10.8	0.5	3.2	6.5
53°	1760.7	1719.7	1577.4	1281.6	818.6	371.9	135.8	9.2	0.5	3.2	5.9
54°	1629.7	1611.4	1448.1	1141.4	704.4	311.5	111.6	7.5	0.5	3.2	5.9
55°	1506.3	1479.3	1309.6	998.1	600.9	255.4	93.2	5.9	0.5	3.2	5.9
56°	1348.9	1308.5	1149.5	866.6	495.8	205.9	78.7	4.9	0.5	3.2	5.9
57°	1161.4	1118.3	992.7	720.5	389.1	156.8	65.7	3.8	0.5	3.2	5.9
58°	982.5	945.3	810.5	556.2	293.2	108.9	54.4	2.7	0.5	2.7	5.9
59°	848.8	807.8	674.2	427.9	203.7	80.3	41.0	2.2	0.5	3.2	5.9
60°	735.1	682.3	542.7	331.4	145.5	57.7	30.2	1.1	1.1	3.2	5.9
62.5°	423.6	374.0	259.2	134.7	59.8	29.6	14.6	0.5	1.1	3.2	5.9
65°	107.2	95.4	62.0	29.1	16.7	10.2	5.4	0.5	1.1	2.7	5.4



TEST NUMBER: P1309933

CATALOG NUMBER: P3SQAS05R359040DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	3.8	3.8	3.8	3.2	2.7	2.2	1.1	0.5	1.1	2.7	5.4
70°	1.6	1.6	1.6	1.1	1.1	0.5	0.5	0.5	1.1	2.7	4.9
72.5°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	1.6	2.7	4.3
75°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	1.6	2.7	4.3
77.5°	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	1.6	2.2	3.8
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6	2.2	3.2
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6	2.2	2.7
85°	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	1.6	2.2	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.6	2.2	1.6
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: P1309933

CATALOG NUMBER: P3SQAS05R359040DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	27.5	27.5	27.5
2.5°	25.9	25.9	25.9
5°	24.3	24.3	23.7
7.5°	22.6	22.1	22.1
10°	20.5	20.5	20.5
12.5°	18.9	18.9	18.9
15°	17.2	17.8	17.8
17.5°	15.6	16.7	16.7
20°	14.6	15.6	16.2
22.5°	13.5	14.6	15.1
25°	12.9	14.0	14.6
27.5°	11.9	13.5	14.6
30°	11.3	12.9	14.0
31°	11.3	12.9	13.5
32°	10.8	12.9	13.5
33°	10.8	12.9	13.5
34°	10.8	12.4	13.5
35°	10.2	12.4	12.9
36°	10.2	12.4	12.9
37°	10.2	12.4	13.5
38°	10.2	12.4	12.9
39°	9.7	12.4	12.9
40°	9.7	12.4	12.9
41°	9.7	12.4	12.9
42°	9.7	12.4	12.9
43°	9.7	12.4	12.9
44°	9.7	11.9	12.9
45°	9.7	11.9	12.9
46°	9.7	12.4	12.9
47°	9.7	12.4	13.5
48°	9.7	11.9	12.9
49°	9.2	11.9	12.9
50°	9.2	11.9	12.9
51°	9.2	12.4	13.5
52°	9.2	12.4	13.5
53°	9.2	12.4	13.5
54°	9.2	12.4	12.9
55°	9.2	12.4	13.5
56°	9.2	12.4	12.9
57°	9.2	12.4	12.9
58°	9.2	11.9	12.9
59°	9.2	11.9	12.9
60°	9.2	11.9	12.9
62.5°	8.6	11.9	12.9
65°	8.6	11.3	12.4



TEST NUMBER: P1309933

CATALOG NUMBER: P3SQAS05R359040DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	8.1	11.3	11.9
70°	7.5	10.8	11.3
72.5°	7.0	10.2	10.8
75°	6.5	9.2	9.7
77.5°	5.4	8.1	9.2
80°	4.9	7.0	7.5
82.5°	3.8	5.9	6.5
85°	2.7	4.3	4.3
87.5°	1.1	2.2	2.2
90°	0.0	0.0	0.0

(END OF REPORT)