

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: P1307232

Luminaire Tested: P3SQAS20R459027D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R459027D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

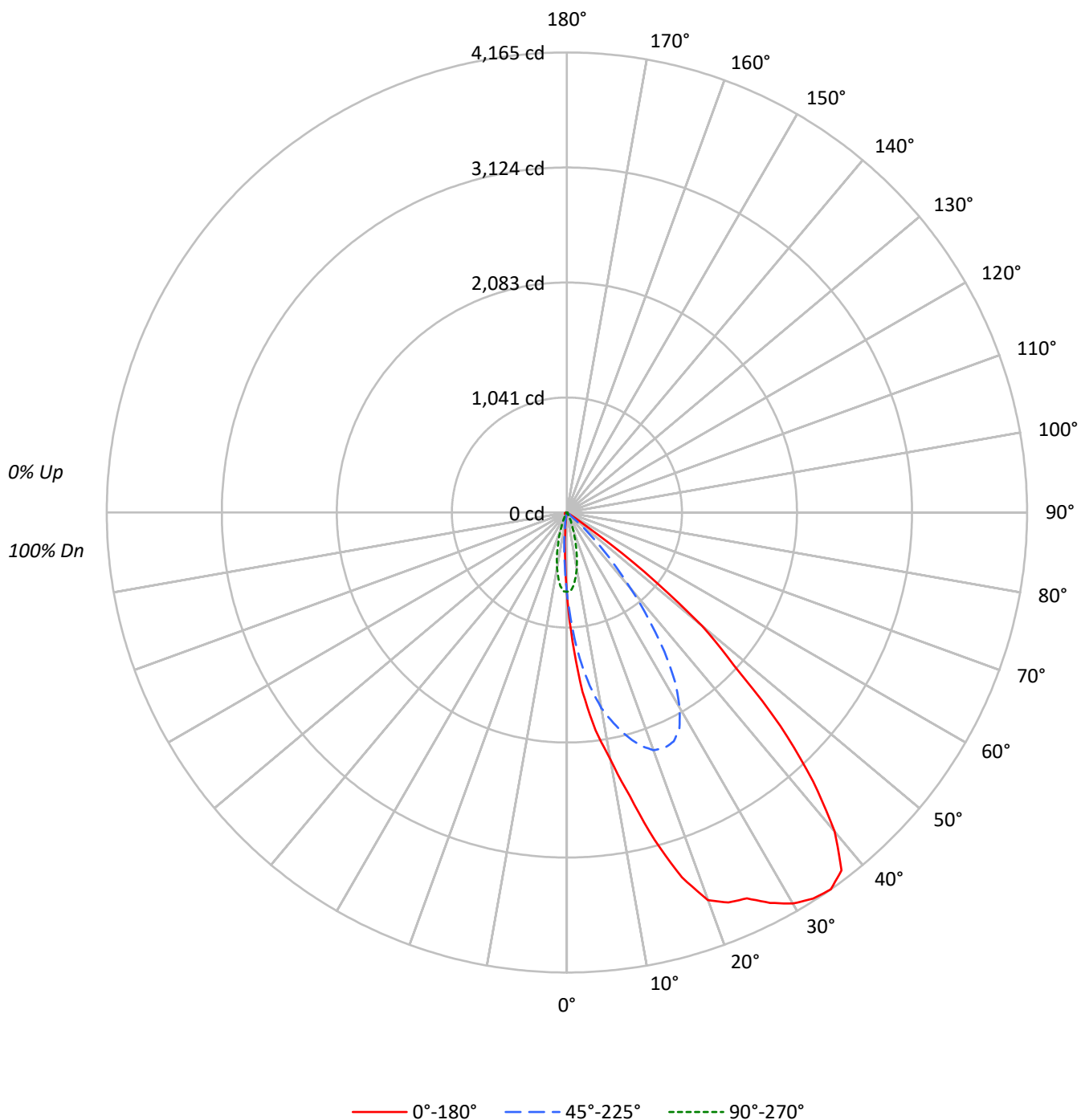
Lumens per Lamp: N/A
Luminaire Lumens: 1887.0 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1307232

CATALOG NUMBER: P3SQAS20R459027D010 E3SQCA301MW

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96
2	105	100	95	91	103	98	93	90	95	91	88		91	88	86		89
3	99	91	85	80	96	89	84	80	87	82	78		84	80	77		82
4	92	83	76	71	90	82	76	71	80	74	70		77	73	69		76
5	86	76	69	64	84	75	68	64	73	67	63		71	66	62		70
6	81	70	63	57	79	69	62	57	67	61	57		66	60	56		64
7	75	64	57	52	74	63	57	52	62	56	51		61	55	51		60
8	71	59	52	47	69	59	52	47	57	51	47		56	51	47		55
9	66	55	48	43	65	54	47	43	53	47	43		52	47	43		51
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	123656	123656	123656	123656	123656
5°	281830	228634	115674	46384	31654
10°	397134	314066	89416	10213	4687
15°	547268	373659	57127	3370	2817
20°	684314	419664	29782	2309	2309
25°	732325	434534	13796	1805	2090
30°	812823	405785	6284	1889	2188
35°	875586	323504	1997	1997	2649
40°	847237	200450	1057	2473	3192
45°	665332	94550	1145	3069	3848
50°	427484	10985	1688	3805	5064
55°	64916	961	1892	4744	6155
60°	1102	1102	2170	5442	6510
65°	1304	1304	2567	5787	7702
70°	1611	1611	3172	6345	8762
75°	1065	2129	4192	7320	9449
80°	1587	3174	4661	7835	10910
85°	0	3162	6323	9287	9287

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 665332 cd/sqm

TEST NUMBER: P1307232

CATALOG NUMBER: P3SQAS20R459027D010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	4.2
10°-20°	284.1	15.1
20°-30°	499.1	26.5
30°-40°	566.8	30.0
40°-50°	367.0	19.4
50°-60°	72.0	3.8
60°-70°	8.8	0.5
70°-80°	7.3	0.4
80°-90°	3.3	0.2
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°	861.8	45.7
0°-40°	1428.6	75.7
0°-60°	1867.7	99.0
0°-90°	1887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1887.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	718	718	718	718	718	
5°	1630	1322	669	268	183	174
15°	3069	2096	320	19	16	884
25°	3854	2287	73	10	11	1806
35°	4165	1539	10	10	13	2560
45°	2732	388	5	13	16	2059
55°	216	3	6	16	20	413
65°	3	3	6	14	19	3
75°	2	3	6	11	14	2
85°	0	2	3	5	5	0
90°	0	0	0	0	0	

TEST NUMBER: P1307232

CATALOG NUMBER: P3SQAS20R459027D010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0
2.5°	1166.2	1163.1	1167.8	1136.2	1134.7	1111.0	1104.7	1077.9	1041.6	1024.2	983.2
5°	1630.2	1614.4	1614.4	1576.5	1563.9	1537.1	1491.3	1434.5	1387.2	1322.5	1253.0
7.5°	1988.4	1985.3	1985.3	1952.1	1920.6	1882.7	1821.1	1756.4	1680.7	1581.3	1480.3
10°	2270.9	2275.6	2261.4	2231.5	2185.7	2144.7	2072.1	1993.2	1900.0	1795.9	1661.8
12.5°	2627.6	2592.8	2581.8	2513.9	2455.5	2376.6	2289.8	2199.9	2084.7	1953.7	1802.2
15°	3069.4	3025.2	2981.1	2891.1	2793.3	2671.7	2536.0	2403.5	2255.1	2095.7	1906.4
17.5°	3464.0	3464.0	3405.6	3263.5	3137.3	2957.4	2774.3	2597.6	2422.4	2212.5	1975.8
20°	3733.8	3719.6	3675.4	3571.3	3427.7	3224.1	2985.8	2738.0	2526.6	2289.8	2015.2
22.5°	3822.2	3819.0	3820.6	3759.1	3643.9	3432.4	3140.4	2848.5	2583.4	2308.8	1996.3
25°	3853.8	3860.1	3875.8	3852.2	3765.4	3553.9	3235.1	2900.6	2600.7	2286.7	1923.7
27.5°	3984.7	3972.1	3989.5	3973.7	3875.8	3623.3	3254.1	2887.9	2562.9	2206.2	1794.3
30°	4087.3	4084.2	4114.1	4099.9	3972.1	3667.5	3236.7	2840.6	2469.7	2040.5	1590.7
32.5°	4145.7	4147.3	4155.2	4096.8	3907.4	3571.3	3151.5	2744.3	2294.6	1824.3	1325.6
35°	4164.6	4155.2	4111.0	3967.4	3708.6	3348.8	2941.6	2515.5	2056.3	1538.7	1047.9
37.5°	4082.6	4033.7	3920.0	3705.4	3405.6	3069.4	2673.3	2226.7	1729.6	1215.1	781.2
40°	3768.5	3703.8	3560.2	3340.9	3061.5	2736.4	2330.9	1863.8	1341.4	891.6	549.2
42.5°	3298.3	3265.1	3115.2	2924.2	2687.5	2359.3	1941.1	1467.6	992.6	615.5	350.3
45°	2731.7	2689.1	2594.4	2425.6	2239.3	1895.3	1505.5	1051.0	677.0	388.2	173.6
47.5°	2048.4	2051.5	1986.8	1859.0	1676.0	1388.7	1030.5	705.4	424.5	200.4	39.5
50°	1595.5	1573.4	1481.8	1350.9	1137.8	924.8	666.0	445.0	224.1	41.0	3.2
52.5°	883.7	897.9	849.0	806.4	695.9	552.3	393.0	225.7	47.3	4.7	3.2
55°	216.2	228.8	219.4	224.1	232.0	206.7	159.4	44.2	4.7	3.2	3.2
57.5°	4.7	4.7	4.7	4.7	7.9	11.0	11.0	3.2	3.2	3.2	3.2
60°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
62.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
65°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
67.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
70°	3.2	3.2	3.2	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2
82.5°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	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: P1307232

CATALOG NUMBER: P3SQAS20R459027D010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0
2.5°	962.6	932.7	877.4	713.3	572.9	462.4	396.1	389.8
5°	1191.5	1111.0	994.2	669.1	422.9	268.3	194.1	183.1
7.5°	1373.0	1259.3	1079.4	596.5	288.8	137.3	75.7	63.1
10°	1522.9	1361.9	1123.6	511.3	181.5	58.4	31.6	26.8
12.5°	1625.5	1431.3	1131.5	416.6	104.2	28.4	20.5	18.9
15°	1691.7	1453.4	1093.6	320.4	58.4	18.9	17.4	15.8
17.5°	1718.6	1434.5	1021.0	232.0	31.6	14.2	14.2	14.2
20°	1705.9	1373.0	913.7	162.5	20.5	12.6	12.6	12.6
22.5°	1646.0	1267.2	779.6	108.9	14.2	11.0	11.0	11.0
25°	1527.6	1123.6	637.6	72.6	9.5	9.5	11.0	11.0
27.5°	1350.9	946.9	487.6	48.9	7.9	9.5	11.0	11.0
30°	1128.4	749.6	350.3	31.6	7.9	9.5	9.5	11.0
32.5°	896.4	546.0	230.4	18.9	6.3	9.5	11.0	12.6
35°	650.2	372.4	146.8	9.5	7.9	9.5	11.0	12.6
37.5°	456.1	243.0	85.2	6.3	7.9	9.5	12.6	12.6
40°	296.7	135.7	31.6	4.7	7.9	11.0	12.6	14.2
42.5°	154.7	47.3	6.3	4.7	7.9	11.0	14.2	15.8
45°	39.5	6.3	1.6	4.7	9.5	12.6	15.8	15.8
47.5°	4.7	1.6	1.6	6.3	9.5	14.2	15.8	17.4
50°	1.6	3.2	3.2	6.3	9.5	14.2	17.4	18.9
52.5°	3.2	3.2	3.2	6.3	11.0	14.2	18.9	20.5
55°	3.2	3.2	3.2	6.3	11.0	15.8	18.9	20.5
57.5°	3.2	3.2	3.2	6.3	11.0	15.8	18.9	18.9
60°	3.2	3.2	3.2	6.3	11.0	15.8	18.9	18.9
62.5°	3.2	3.2	4.7	6.3	11.0	14.2	18.9	18.9
65°	3.2	4.7	4.7	6.3	11.0	14.2	17.4	18.9
67.5°	3.2	3.2	4.7	6.3	11.0	14.2	17.4	18.9
70°	3.2	3.2	4.7	6.3	9.5	12.6	15.8	17.4
72.5°	3.2	3.2	4.7	6.3	9.5	12.6	14.2	15.8
75°	3.2	3.2	4.7	6.3	7.9	11.0	14.2	14.2
77.5°	3.2	3.2	4.7	4.7	7.9	9.5	12.6	12.6
80°	3.2	3.2	4.7	4.7	6.3	7.9	9.5	11.0
82.5°	3.2	3.2	3.2	4.7	4.7	6.3	7.9	7.9
85°	3.2	3.2	3.2	3.2	3.2	4.7	4.7	4.7
87.5°	1.6	3.2	3.2	3.2	3.2	3.2	3.2	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)