

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: P1314754

Luminaire Tested: P3SQAS20R609735D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R609735D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

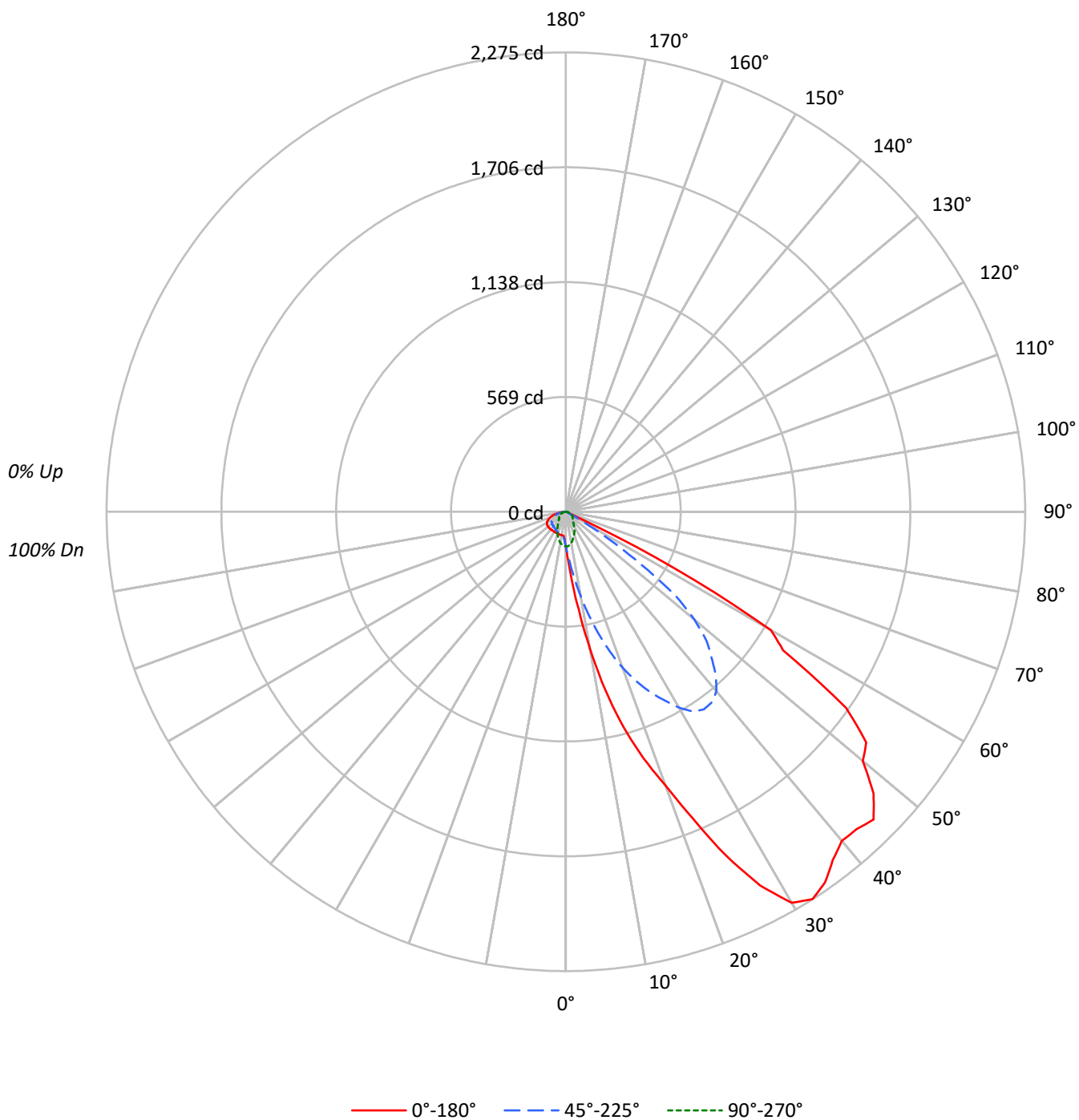
Lumens per Lamp: N/A
Luminaire Lumens: 1732.0 lumens
Efficiency: N/A
Efficacy: 60.1 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1314754

CATALOG NUMBER: P3SQAS20R609735D010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1314754

CATALOG NUMBER: P3SQAS20R609735D010 E3SQCA451MMS

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		108	104	100	97		100	97	94		96	93	91		92	90	89
2	101	93	87	82		98	91	86	81		88	83	79		85	81	77		82	79	76
3	92	82	74	68		90	81	73	68		78	72	67		75	70	65		72	68	64
4	84	72	64	58		82	71	63	57		69	62	56		66	60	56		64	59	55
5	77	64	55	49		75	63	55	49		61	54	48		59	53	48		57	52	47
6	70	57	48	42		69	56	48	42		54	47	41		53	46	41		51	45	41
7	65	51	42	36		63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	46	38	32		58	45	37	32		44	37	31		43	36	31		42	36	31
9	55	42	33	28		54	41	33	28		40	33	28		39	32	27		38	32	27
10	52	38	30	25		50	38	30	25		37	29	24		36	29	24		35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	29553	29553	29553	29553	29553
5°	58243	45450	29130	22042	20953
10°	120317	74061	27264	20094	20373
15°	196788	111169	24427	20219	20772
20°	264027	150616	21938	20197	21058
25°	357212	186986	19155	20048	21834
30°	444604	222610	15969	20046	22850
35°	470697	250906	13582	20520	23842
40°	478194	260859	12388	21246	25832
45°	524968	248479	11886	22627	27985
50°	514642	222731	11816	24033	30785
55°	508672	136619	11830	26003	34050
60°	403483	32550	12469	27659	36890
65°	25673	5787	12185	28241	39773
70°	5539	6345	11884	29357	41996
75°	5257	6255	10447	28280	42986
80°	4661	6248	10910	28068	40564
85°	3162	6126	12449	24898	40509

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 554101 cd/sqm

TEST NUMBER: P1314754

CATALOG NUMBER: P3SQAS20R609735D010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.4	1.2
10°-20°	108.0	6.2
20°-30°	250.5	14.5
30°-40°	389.3	22.5
40°-50°	443.6	25.6
50°-60°	373.6	21.6
60°-70°	108.4	6.3
70°-80°	27.8	1.6
80°-90°	9.4	0.5
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°	379.9	21.9
0°-40°	769.2	44.4
0°-60°	1586.4	91.6
0°-90°	1732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1732.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	172	172	172	172	172	
5°	337	263	168	128	121	43
15°	1104	624	137	113	116	319
25°	1880	984	101	106	115	873
35°	2239	1193	65	98	113	1391
45°	2155	1020	49	93	115	1620
55°	1694	455	39	87	113	1425
65°	63	14	30	69	98	311
75°	8	9	16	42	65	8
85°	2	3	6	13	20	2
90°	0	0	0	0	0	

TEST NUMBER: P1314754

CATALOG NUMBER: P3SQAS20R609735D010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	171.6	171.6	171.6	171.6	171.6	171.6	171.6	171.6	171.6	171.6	171.6
2.5°	231.4	229.9	229.9	228.3	226.7	225.1	220.4	218.8	209.4	190.5	171.6
5°	336.9	335.3	330.6	329.1	321.2	310.2	299.1	288.1	262.9	209.4	168.5
7.5°	488.1	491.2	488.1	470.7	459.7	442.4	409.3	385.7	335.3	228.3	162.2
10°	688.0	688.0	683.3	656.5	632.9	599.9	557.3	516.4	423.5	245.6	155.9
12.5°	905.3	910.0	886.4	864.4	821.8	780.9	722.7	661.3	524.3	259.8	148.0
15°	1103.7	1100.5	1076.9	1048.6	1004.5	947.8	886.4	807.7	623.5	269.2	137.0
17.5°	1280.0	1273.7	1253.2	1221.7	1168.2	1105.2	1026.5	941.5	725.8	277.1	129.1
20°	1440.6	1418.5	1394.9	1361.9	1309.9	1243.8	1161.9	1065.9	821.8	277.1	119.7
22.5°	1643.7	1621.6	1588.6	1538.2	1468.9	1387.1	1291.0	1182.4	906.9	270.8	110.2
25°	1879.8	1862.5	1805.8	1741.3	1651.6	1553.9	1442.2	1295.7	984.0	261.4	100.8
27.5°	2086.1	2067.2	2010.5	1916.1	1807.4	1690.9	1572.8	1423.3	1051.7	244.0	89.7
30°	2235.7	2212.0	2168.0	2078.2	1946.0	1804.3	1664.2	1520.9	1119.4	223.6	80.3
32.5°	2275.0	2271.9	2238.8	2172.7	2054.6	1898.7	1731.9	1576.0	1172.9	196.8	72.4
35°	2238.8	2243.5	2237.2	2204.2	2117.6	1964.9	1775.9	1605.9	1193.4	170.0	64.6
37.5°	2172.7	2179.0	2190.0	2194.7	2139.6	2004.2	1801.1	1618.5	1188.7	143.3	59.8
40°	2127.0	2123.9	2123.9	2155.4	2144.3	2021.5	1804.3	1609.0	1160.3	114.9	55.1
42.5°	2131.8	2097.1	2073.5	2123.9	2139.6	2013.7	1783.8	1583.9	1098.9	88.2	50.4
45°	2155.4	2081.4	2040.4	2105.0	2130.2	1986.9	1746.0	1546.1	1020.2	61.4	48.8
47.5°	2067.2	2018.4	2012.1	2103.4	2112.9	1941.2	1687.8	1486.2	944.6	42.5	45.7
50°	1920.8	1912.9	1946.0	2040.4	2042.0	1865.7	1621.6	1377.6	831.3	29.9	44.1
52.5°	1875.1	1879.8	1909.8	1958.6	1912.9	1738.1	1502.0	1286.3	688.0	23.6	42.5
55°	1694.1	1701.9	1730.3	1760.2	1727.1	1582.3	1357.1	1176.1	455.0	22.0	39.4
57.5°	1275.3	1295.7	1347.7	1374.5	1377.6	1289.4	1229.6	1013.9	256.6	22.0	37.8
60°	1171.4	1144.6	1121.0	1065.9	1015.5	1004.5	1010.8	760.4	94.5	20.5	36.2
62.5°	612.4	599.9	636.1	659.7	666.0	700.6	655.0	401.5	20.5	20.5	33.1
65°	63.0	63.0	77.1	102.3	170.0	226.7	215.7	116.5	14.2	18.9	29.9
67.5°	18.9	18.9	18.9	22.0	28.3	28.3	23.6	17.3	14.2	17.3	26.8
70°	11.0	11.0	11.0	11.0	11.0	11.0	12.6	11.0	12.6	15.7	23.6
72.5°	9.4	9.4	9.4	9.4	11.0	11.0	11.0	11.0	11.0	14.2	20.5
75°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	9.4	9.4	11.0	15.7
77.5°	6.3	6.3	6.3	6.3	6.3	6.3	7.9	7.9	7.9	9.4	12.6
80°	4.7	4.7	4.7	4.7	4.7	6.3	6.3	6.3	6.3	7.9	11.0
82.5°	3.1	3.1	3.1	3.1	4.7	4.7	4.7	4.7	4.7	6.3	7.9
85°	1.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.7	6.3
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1	3.1	4.7
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: P1314754

CATALOG NUMBER: P3SQAS20R609735D010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	171.6	171.6	171.6	171.6
2.5°	155.9	144.8	138.5	135.4
5°	141.7	127.5	122.8	121.2
7.5°	129.1	119.7	118.1	118.1
10°	121.2	114.9	116.5	116.5
12.5°	116.5	114.9	116.5	118.1
15°	111.8	113.4	116.5	116.5
17.5°	108.6	111.8	114.9	116.5
20°	103.9	110.2	114.9	114.9
22.5°	100.8	108.6	113.4	114.9
25°	97.6	105.5	111.8	114.9
27.5°	92.9	103.9	111.8	113.4
30°	88.2	100.8	110.2	114.9
32.5°	83.4	99.2	110.2	113.4
35°	80.3	97.6	110.2	113.4
37.5°	77.1	96.0	110.2	114.9
40°	75.6	94.5	108.6	114.9
42.5°	72.4	94.5	108.6	114.9
45°	70.8	92.9	108.6	114.9
47.5°	69.3	91.3	108.6	114.9
50°	66.1	89.7	107.1	114.9
52.5°	64.6	88.2	107.1	114.9
55°	61.4	86.6	105.5	113.4
57.5°	59.8	83.4	103.9	110.2
60°	56.7	80.3	100.8	107.1
62.5°	52.0	75.6	96.0	103.9
65°	47.2	69.3	91.3	97.6
67.5°	42.5	64.6	85.0	91.3
70°	37.8	58.3	77.1	83.4
72.5°	33.1	50.4	69.3	74.0
75°	28.3	42.5	58.3	64.6
77.5°	22.0	34.6	48.8	53.5
80°	17.3	28.3	37.8	40.9
82.5°	14.2	20.5	28.3	29.9
85°	9.4	12.6	17.3	20.5
87.5°	4.7	6.3	7.9	9.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)