

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: P1307354

Luminaire Tested: P3SQAS24R359027D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307354
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: P3SQAS24R359027D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

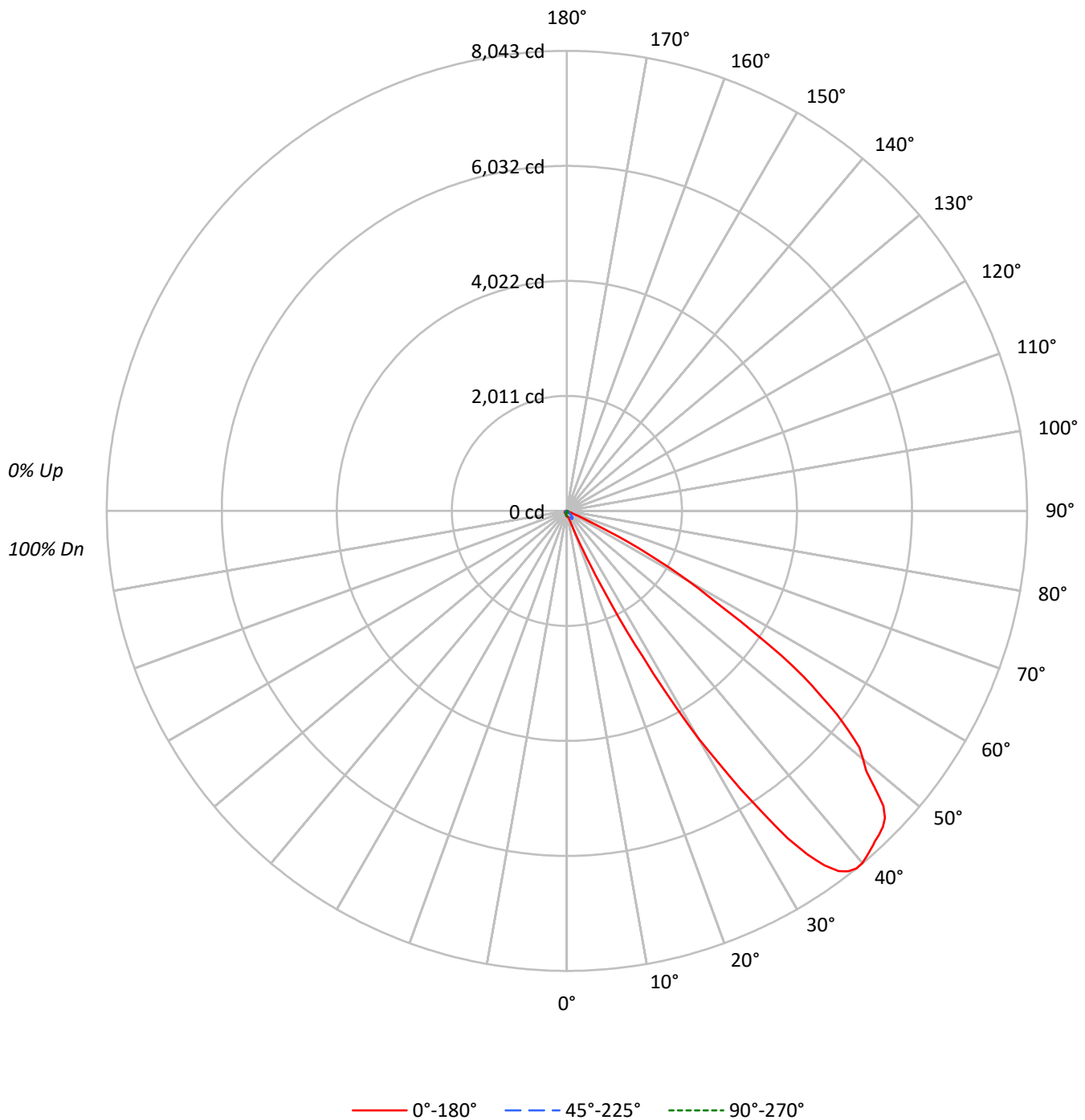
Lumens per Lamp: N/A
Luminaire Lumens: 2003.0 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1307354

CATALOG NUMBER: P3SQAS24R359027D010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1307354

CATALOG NUMBER: P3SQAS24R359027D010 E3SQCA451MMS

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	99	107	104	100	97	100	97	94		96	93	91		92	90	89	87
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81	78	75	73
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	83	71	62	55	80	69	61	55	67	60	54		64	58	53		62	57	52	50
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55	49	44	42
6	68	54	45	38	66	53	44	38	51	43	38		50	43	37		48	42	37	35
7	62	48	38	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	57	42	33	27	55	41	33	27	40	32	27		39	32	26		38	31	26	24
9	52	38	29	23	50	37	29	23	36	28	23		35	28	22		34	27	22	20
10	48	34	25	19	46	33	25	19	32	25	19		31	24	19		30	24	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15879	15879	15879	15879	15879
5°	17184	16873	15628	14072	13761
10°	18030	16439	13920	12014	12014
15°	25800	16118	11286	10323	10644
20°	64623	17228	8944	8944	9934
25°	299957	21986	6879	8247	9273
30°	911878	29850	5389	7557	9347
35°	1541138	34585	4562	7232	9125
40°	1806524	34150	3665	7307	9757
45°	1902468	24210	3093	7916	10570
50°	1810891	14522	2894	8225	11628
55°	1517429	5975	3243	9218	13572
60°	849505	1240	3720	10574	14949
65°	146623	734	3668	11777	16953
70°	2719	906	4532	12740	19135
75°	2396	1198	5989	14440	21626
80°	1785	1785	7141	16166	25092
85°	0	3557	14227	17784	28652

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1915958 cd/sqm

TEST NUMBER: P1307354

CATALOG NUMBER: P3SQAS24R359027D010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	0.4
10°-20°	23.6	1.2
20°-30°	122.9	6.1
30°-40°	530.8	26.5
40°-50°	757.1	37.8
50°-60°	468.9	23.4
60°-70°	71.4	3.6
70°-80°	13.3	0.7
80°-90°	6.7	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°	154.8	7.7
0°-40°	685.6	34.2
0°-60°	1911.6	95.4
0°-90°	2003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2003.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	92	92	92	92	92	
5°	99	98	90	81	80	10
15°	145	90	63	58	60	52
25°	1578	116	36	43	49	945
35°	7330	164	22	34	43	4401
45°	7811	99	13	32	43	5901
55°	5054	20	11	31	45	4304
65°	360	2	9	29	42	735
75°	4	2	9	22	32	4
85°	0	2	7	9	14	1
90°	0	0	0	0	0	

TEST NUMBER: P1307354

CATALOG NUMBER: P3SQAS24R359027D010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
2.5°	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	92.2	90.4
5°	99.4	99.4	97.6	97.6	97.6	97.6	97.6	97.6	94.0	90.4	85.0
7.5°	101.3	101.3	99.4	99.4	99.4	99.4	97.6	95.8	92.2	85.0	79.6
10°	103.1	103.1	103.1	103.1	101.3	99.4	97.6	94.0	88.6	79.6	74.1
12.5°	115.7	115.7	113.9	110.3	106.7	103.1	99.4	92.2	81.4	72.3	66.9
15°	144.7	142.8	139.2	133.8	126.6	117.5	110.3	90.4	74.1	63.3	59.7
17.5°	202.5	198.9	193.5	175.4	159.1	142.8	128.4	90.4	66.9	56.1	52.4
20°	352.6	354.4	316.4	273.0	236.9	197.1	160.9	94.0	59.7	48.8	47.0
22.5°	735.9	707.0	616.6	511.7	390.6	302.0	227.8	103.1	52.4	41.6	41.6
25°	1578.5	1468.2	1249.4	943.8	665.4	471.9	330.9	115.7	47.0	36.2	38.0
27.5°	2882.2	2782.7	2343.3	1764.7	1171.7	712.4	448.4	132.0	41.6	30.7	34.4
30°	4585.4	4310.6	3737.4	2893.0	1958.2	1090.3	602.1	150.1	34.4	27.1	32.5
31°	5117.0	4990.5	4292.5	3346.9	2294.5	1294.6	667.2	155.5	32.5	27.1	30.7
32°	5748.1	5523.9	4898.2	3844.1	2636.3	1477.2	745.0	160.9	30.7	23.5	30.7
33°	6312.2	6095.2	5334.0	4281.7	2981.6	1685.2	828.1	162.7	27.1	23.5	28.9
34°	6905.3	6608.7	5854.7	4739.1	3336.0	1909.4	904.1	164.5	25.3	21.7	28.9
35°	7330.2	7033.7	6303.2	5100.8	3641.6	2108.3	990.9	164.5	23.5	21.7	27.1
36°	7659.3	7398.9	6690.1	5473.2	3945.4	2287.3	1059.6	164.5	19.9	19.9	27.1
37°	7885.3	7637.6	6950.5	5793.3	4176.8	2446.4	1121.0	164.5	18.1	19.9	27.1
38°	7995.6	7789.5	7201.8	6026.5	4401.0	2571.2	1169.9	160.9	16.3	18.1	25.3
39°	8042.6	7874.4	7355.5	6223.6	4569.2	2679.7	1206.0	157.3	14.5	18.1	25.3
40°	8035.4	7888.9	7442.3	6359.2	4704.8	2753.8	1225.9	151.9	12.7	16.3	25.3
41°	7993.8	7867.2	7487.5	6474.9	4786.1	2804.4	1231.3	146.5	10.8	16.3	23.5
42°	7946.8	7831.0	7502.0	6536.4	4838.6	2820.7	1216.9	139.2	10.8	14.5	23.5
43°	7897.9	7791.3	7502.0	6556.3	4851.2	2809.8	1193.4	126.6	9.0	14.5	23.5
44°	7858.2	7756.9	7478.5	6550.9	4824.1	2768.3	1150.0	112.1	7.2	14.5	23.5
45°	7811.1	7711.7	7447.7	6516.5	4771.7	2697.7	1095.7	99.4	5.4	12.7	23.5
46°	7728.0	7650.2	7393.5	6446.0	4688.5	2600.1	1027.0	90.4	3.6	12.7	21.7
47°	7567.1	7500.1	7288.6	6341.1	4578.2	2484.4	956.5	81.4	3.6	12.7	21.7
48°	7243.4	7241.6	7078.9	6145.9	4402.8	2339.7	882.4	72.3	3.6	12.7	21.7
49°	6930.6	6898.0	6695.5	5802.3	4151.5	2166.1	804.6	65.1	1.8	12.7	21.7
50°	6758.8	6688.3	6355.6	5397.3	3829.6	1925.7	721.4	54.2	1.8	10.8	21.7
51°	6579.8	6478.6	6086.2	5032.0	3446.3	1694.2	631.0	43.4	1.8	10.8	19.9
52°	6256.2	6160.3	5720.9	4683.1	3073.8	1457.4	544.2	36.2	1.8	10.8	21.7
53°	5907.2	5769.8	5292.4	4299.7	2746.6	1247.6	455.7	30.7	1.8	10.8	19.9
54°	5467.8	5406.3	4858.5	3829.6	2363.2	1045.1	374.3	25.3	1.8	10.8	19.9
55°	5053.7	4963.3	4393.8	3348.7	2016.1	857.1	312.8	19.9	1.8	10.8	19.9
56°	4525.8	4390.2	3856.8	2907.5	1663.5	690.7	264.0	16.3	1.8	10.8	19.9
57°	3896.5	3751.9	3330.6	2417.5	1305.5	526.2	220.6	12.7	1.8	10.8	19.9
58°	3296.2	3171.5	2719.4	1866.0	983.6	365.2	182.6	9.0	1.8	9.0	19.9
59°	2847.8	2710.4	2262.0	1435.7	683.5	269.4	137.4	7.2	1.8	10.8	19.9
60°	2466.3	2289.1	1820.8	1112.0	488.2	193.5	101.3	3.6	3.6	10.8	19.9
62.5°	1421.2	1254.8	869.7	452.0	200.7	99.4	48.8	1.8	3.6	10.8	19.9
65°	359.8	320.0	207.9	97.6	56.1	34.4	18.1	1.8	3.6	9.0	18.1



TEST NUMBER: P1307354

CATALOG NUMBER: P3SQAS24R359027D010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	12.7	12.7	12.7	10.8	9.0	7.2	3.6	1.8	3.6	9.0	18.1
70°	5.4	5.4	5.4	3.6	3.6	1.8	1.8	1.8	3.6	9.0	16.3
72.5°	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	5.4	9.0	14.5
75°	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	5.4	9.0	14.5
77.5°	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8	5.4	7.2	12.7
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	5.4	7.2	10.8
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	5.4	7.2	9.0
85°	0.0	0.0	0.0	0.0	0.0	1.8	0.0	1.8	5.4	7.2	7.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.4	7.2	5.4
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: P1307354

CATALOG NUMBER: P3SQAS24R359027D010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	92.2	92.2	92.2
2.5°	86.8	86.8	86.8
5°	81.4	81.4	79.6
7.5°	75.9	74.1	74.1
10°	68.7	68.7	68.7
12.5°	63.3	63.3	63.3
15°	57.9	59.7	59.7
17.5°	52.4	56.1	56.1
20°	48.8	52.4	54.2
22.5°	45.2	48.8	50.6
25°	43.4	47.0	48.8
27.5°	39.8	45.2	48.8
30°	38.0	43.4	47.0
31°	38.0	43.4	45.2
32°	36.2	43.4	45.2
33°	36.2	43.4	45.2
34°	36.2	41.6	45.2
35°	34.4	41.6	43.4
36°	34.4	41.6	43.4
37°	34.4	41.6	45.2
38°	34.4	41.6	43.4
39°	32.5	41.6	43.4
40°	32.5	41.6	43.4
41°	32.5	41.6	43.4
42°	32.5	41.6	43.4
43°	32.5	41.6	43.4
44°	32.5	39.8	43.4
45°	32.5	39.8	43.4
46°	32.5	41.6	43.4
47°	32.5	41.6	45.2
48°	32.5	39.8	43.4
49°	30.7	39.8	43.4
50°	30.7	39.8	43.4
51°	30.7	41.6	45.2
52°	30.7	41.6	45.2
53°	30.7	41.6	45.2
54°	30.7	41.6	43.4
55°	30.7	41.6	45.2
56°	30.7	41.6	43.4
57°	30.7	41.6	43.4
58°	30.7	39.8	43.4
59°	30.7	39.8	43.4
60°	30.7	39.8	43.4
62.5°	28.9	39.8	43.4
65°	28.9	38.0	41.6



TEST NUMBER: P1307354

CATALOG NUMBER: P3SQAS24R359027D010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	27.1	38.0	39.8
70°	25.3	36.2	38.0
72.5°	23.5	34.4	36.2
75°	21.7	30.7	32.5
77.5°	18.1	27.1	30.7
80°	16.3	23.5	25.3
82.5°	12.7	19.9	21.7
85°	9.0	14.5	14.5
87.5°	3.6	7.2	7.2
90°	0.0	0.0	0.0

(END OF REPORT)