

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: P1316170

Luminaire Tested: P3SQAS09R659827DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R659827DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 98CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

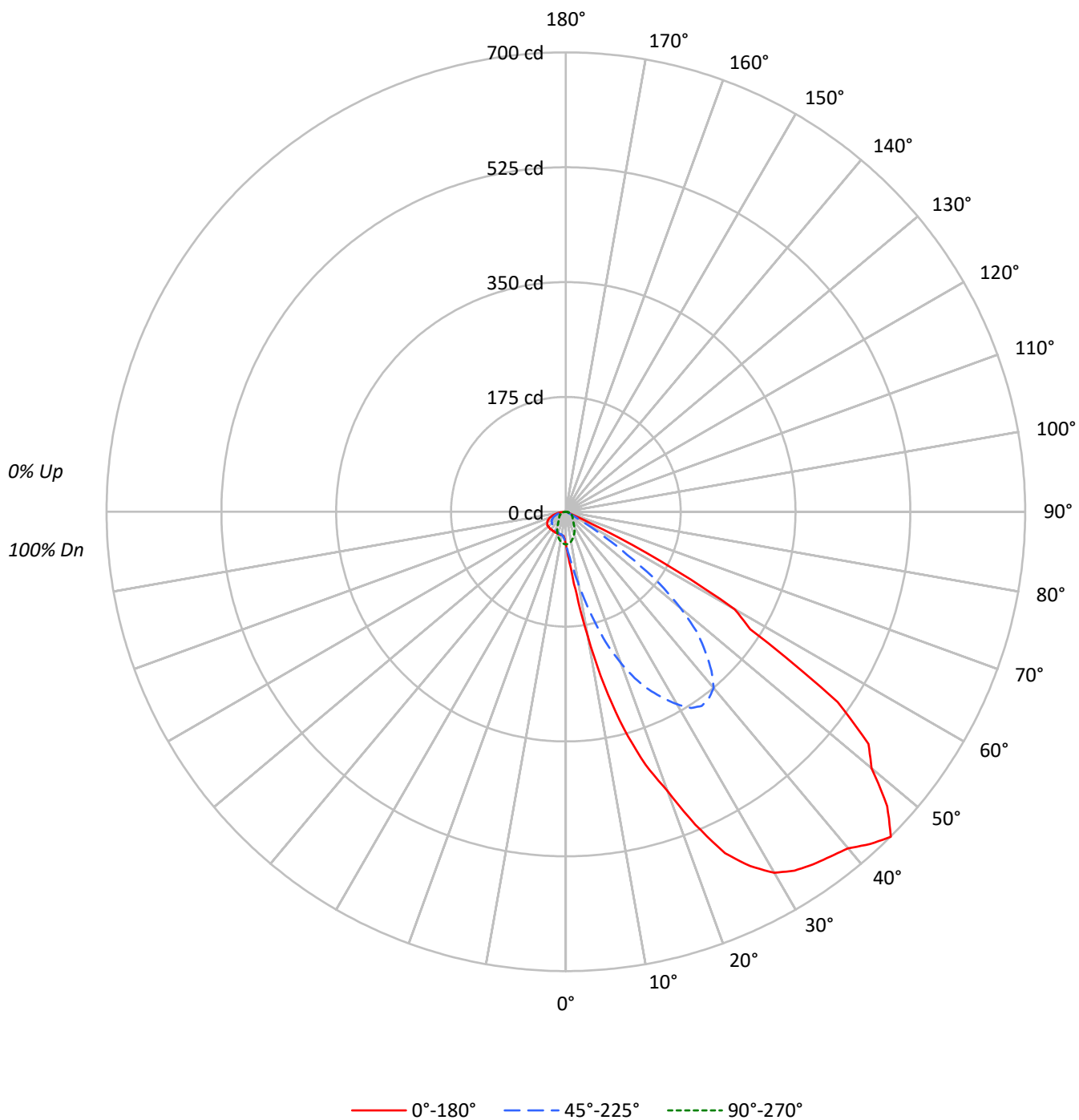
Lumens per Lamp: N/A
Luminaire Lumens: 508.0 lumens
Efficiency: N/A
Efficacy: 46.2 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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: P1316170

CATALOG NUMBER: P3SQAS09R659827DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1316170

CATALOG NUMBER: P3SQAS09R659827DE010 E3SQCA451MB

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	108	104	100	97	100	97	94		96	94	91		92	90	89	87
2	101	93	87	82	98	92	86	81	88	83	79		85	81	77		82	79	76	74
3	92	82	75	69	90	81	74	68	78	72	67		75	70	66		73	68	65	62
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	57	49	42	69	57	48	42	55	47	42		53	46	41		51	46	41	39
7	65	52	43	37	63	51	42	36	49	42	36		48	41	36		46	40	36	34
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	42	34	28	54	41	33	28	40	33	28		39	33	28		38	32	28	26
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8508	8508	8508	8508	8508
5°	14885	12153	8367	6777	6518
10°	33664	19604	8009	6243	6331
15°	61210	31505	7453	6258	6454
20°	82987	44994	6726	6250	6543
25°	109075	56818	5910	6100	6670
30°	126319	67356	5071	6085	6980
35°	137921	75919	4289	6202	7380
40°	150472	78777	3777	6520	7891
45°	170589	73068	3605	6941	8549
50°	162956	61008	3537	7368	9404
55°	151872	34260	3663	7957	10389
60°	102300	7371	3686	8404	11229
65°	15771	1875	3545	8721	12266
70°	1813	1813	3323	8963	13092
75°	1664	1664	3061	8784	13242
80°	1488	1984	3075	8034	13092
85°	988	1976	2964	8102	12054

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 170589 cd/sqm

TEST NUMBER: P1316170

CATALOG NUMBER: P3SQAS09R659827DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	1.2
10°-20°	32.3	6.4
20°-30°	75.9	14.9
30°-40°	114.7	22.6
40°-50°	131.8	25.9
50°-60°	104.6	20.6
60°-70°	31.3	6.2
70°-80°	8.5	1.7
80°-90°	2.8	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°	114.2	22.5
0°-40°	228.8	45.0
0°-60°	465.3	91.6
0°-90°	508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	508.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	49	49	49	49	49	
5°	86	70	48	39	38	12
15°	343	177	42	35	36	99
25°	574	299	31	32	35	262
35°	656	361	20	30	35	412
45°	700	300	15	28	35	520
55°	506	114	12	26	35	417
65°	39	5	9	21	30	87
75°	2	2	5	13	20	3
85°	0	1	2	4	6	1
90°	0	0	0	0	0	

TEST NUMBER: P1316170

CATALOG NUMBER: P3SQAS09R659827DE010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
2.5°	62.7	63.2	62.7	62.7	62.1	61.6	58.1	54.0	49.4	45.8	43.3
5°	86.1	86.6	85.1	85.1	84.0	82.5	70.3	58.6	48.4	42.8	39.2
7.5°	127.3	129.4	126.8	123.8	118.2	117.2	87.6	63.2	47.4	39.7	36.7
10°	192.5	191.0	188.5	182.3	172.7	168.1	112.1	67.7	45.8	37.7	35.7
12.5°	271.5	267.4	264.4	253.1	239.9	232.3	142.6	71.8	43.8	35.7	35.1
15°	343.3	340.2	333.1	322.4	306.1	300.0	176.7	74.4	41.8	34.1	35.1
17.5°	403.9	400.9	396.8	386.1	369.3	360.1	214.9	75.9	39.2	33.1	34.6
20°	452.8	450.8	445.2	436.5	419.7	411.0	245.5	75.9	36.7	32.1	34.1
22.5°	516.0	511.4	504.3	491.5	470.6	457.4	274.5	74.4	34.1	31.1	33.1
25°	574.0	571.0	561.8	546.5	524.1	510.9	299.0	71.3	31.1	29.5	32.1
27.5°	608.7	606.6	598.0	582.2	557.2	547.0	319.4	66.7	28.0	28.0	31.6
30°	635.2	631.1	622.4	607.1	581.7	569.5	338.7	61.1	25.5	26.5	30.6
32.5°	648.4	646.9	639.2	626.0	601.0	587.3	354.5	54.0	22.4	25.5	30.1
35°	656.0	654.5	648.4	635.7	612.2	599.0	361.1	47.4	20.4	24.4	29.5
37.5°	662.2	660.6	653.0	640.3	616.8	603.1	358.1	40.2	18.3	23.4	29.0
40°	669.3	663.7	652.0	639.2	617.8	604.6	350.4	33.6	16.8	22.9	29.0
42.5°	686.6	667.3	648.9	637.2	616.8	601.5	328.5	26.5	15.3	21.9	28.5
45°	700.4	666.2	642.8	633.6	612.8	595.4	300.0	19.4	14.8	21.4	28.5
47.5°	664.2	643.3	632.6	627.5	605.1	586.3	270.5	13.2	14.3	20.9	28.0
50°	608.2	605.6	601.5	602.1	581.7	566.4	227.7	9.2	13.2	20.4	27.5
52.5°	581.2	578.1	571.0	565.9	545.5	532.3	180.3	7.1	12.7	19.9	27.0
55°	505.8	507.8	500.2	503.2	497.1	490.5	114.1	6.6	12.2	18.8	26.5
57.5°	333.1	343.3	361.1	382.5	401.9	415.1	61.6	6.6	11.2	18.3	25.5
60°	297.0	294.4	293.9	298.0	306.6	313.8	21.4	6.1	10.7	16.8	24.4
62.5°	162.5	161.5	176.7	202.7	218.0	219.5	6.1	6.1	9.7	15.8	22.9
65°	38.7	40.2	44.8	56.0	66.2	72.8	4.6	5.6	8.7	14.8	21.4
67.5°	6.1	6.6	6.6	8.1	9.2	9.2	4.1	5.1	7.6	13.2	19.9
70°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.6	6.6	11.7	17.8
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.6	4.1	5.6	10.2	15.3
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.6	4.6	8.1	13.2
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.5	3.1	4.1	6.6	10.7
80°	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.5	3.1	5.1	8.1
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.0	2.5	4.1	6.1
85°	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.5	1.5	2.5	4.1
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.5	2.0
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: P1316170

CATALOG NUMBER: P3SQAS09R659827DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	49.4	49.4
2.5°	41.8	41.3
5°	37.7	37.7
7.5°	36.2	36.2
10°	35.7	36.2
12.5°	35.7	36.2
15°	35.7	36.2
17.5°	35.7	36.2
20°	35.1	35.7
22.5°	34.6	35.1
25°	34.1	35.1
27.5°	33.6	35.1
30°	33.6	35.1
32.5°	33.6	35.1
35°	33.1	35.1
37.5°	33.1	35.1
40°	33.1	35.1
42.5°	33.1	35.1
45°	33.1	35.1
47.5°	33.1	35.1
50°	33.1	35.1
52.5°	32.6	35.1
55°	32.6	34.6
57.5°	31.6	33.6
60°	30.6	32.6
62.5°	29.5	31.6
65°	28.0	30.1
67.5°	26.5	28.0
70°	23.9	26.0
72.5°	21.4	22.9
75°	18.3	19.9
77.5°	15.3	16.8
80°	12.2	13.2
82.5°	8.7	9.7
85°	5.6	6.1
87.5°	2.5	2.5
90°	0.0	0.0

(END OF REPORT)