

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: P1313631

Luminaire Tested: P3SQAS17R659730DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313631
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: P3SQAS17R659730DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

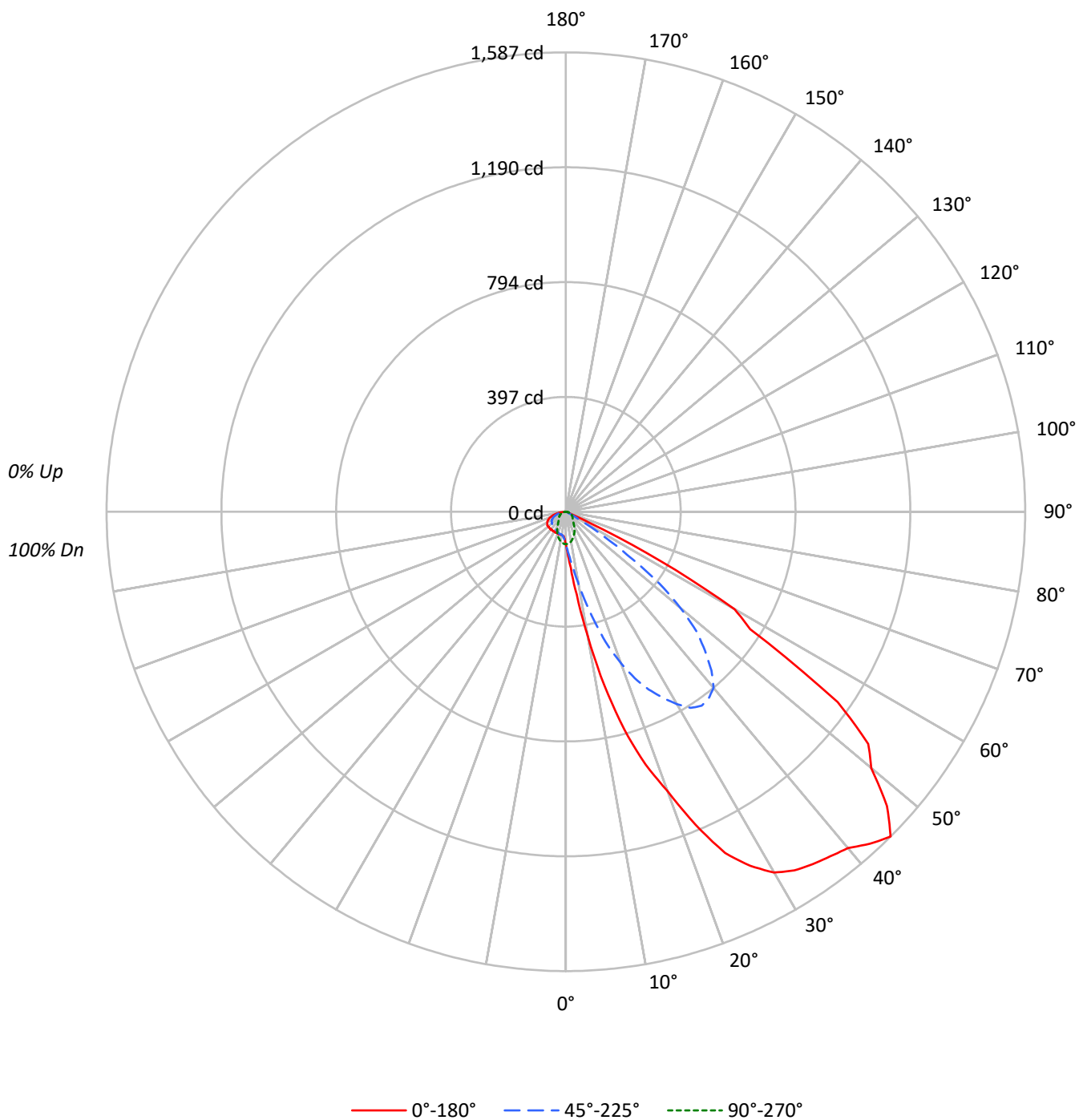
Lumens per Lamp: N/A
Luminaire Lumens: 1151.0 lumens
Efficiency: N/A
Efficacy: 54.3 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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: P1313631

CATALOG NUMBER: P3SQAS17R659730DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1313631

CATALOG NUMBER: P3SQAS17R659730DE010 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	50	30	10
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°	19272	19272	19272	19272	19272
5°	33712	27540	18948	15369	14764
10°	76282	44402	18170	14130	14323
15°	138680	71408	16867	14193	14603
20°	188041	101956	15230	14167	14809
25°	247149	128724	13378	13815	15126
30°	286187	152629	11475	13761	15830
35°	312508	172022	9713	14065	16736
40°	340918	178508	8566	14793	17896
45°	386480	165547	8159	15734	19387
50°	369209	138226	8038	16692	21327
55°	344099	77617	8317	18016	23570
60°	231743	16706	8336	19082	25455
65°	35739	4238	7987	19764	27752
70°	4079	4079	7553	20343	29659
75°	3859	3859	6920	19963	29944
80°	3471	4562	6843	18348	29754
85°	2371	4545	6916	18180	27269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 386480 cd/sqm

TEST NUMBER: P1313631

CATALOG NUMBER: P3SQAS17R659730DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.6	1.2
10°-20°	73.2	6.4
20°-30°	172.0	14.9
30°-40°	259.8	22.6
40°-50°	298.6	25.9
50°-60°	237.1	20.6
60°-70°	71.0	6.2
70°-80°	19.3	1.7
80°-90°	6.5	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°	258.7	22.5
0°-40°	518.5	45.0
0°-60°	1054.2	91.6
0°-90°	1151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1151.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	112	112	112	112	112	
5°	195	159	110	89	85	26
15°	778	400	95	80	82	224
25°	1301	677	70	73	80	594
35°	1486	818	46	67	80	933
45°	1587	680	34	65	80	1179
55°	1146	258	28	60	78	944
65°	88	10	20	48	68	197
75°	6	6	10	30	45	6
85°	1	2	4	9	14	2
90°	0	0	0	0	0	

TEST NUMBER: P1313631

CATALOG NUMBER: P3SQAS17R659730DE010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	111.9	111.9	111.9	111.9	111.9	111.9	111.9	111.9	111.9	111.9	111.9
2.5°	142.0	143.1	142.0	142.0	140.8	139.6	131.6	122.3	111.9	103.9	98.1
5°	195.0	196.2	192.7	192.7	190.4	187.0	159.3	132.7	109.6	96.9	88.9
7.5°	288.5	293.1	287.4	280.4	267.7	265.4	198.5	143.1	107.3	90.0	83.1
10°	436.2	432.8	427.0	413.2	391.2	380.8	253.9	153.5	103.9	85.4	80.8
12.5°	615.1	605.9	599.0	573.6	543.6	526.3	323.1	162.7	99.2	80.8	79.6
15°	777.8	770.9	754.8	730.5	693.6	679.7	400.5	168.5	94.6	77.3	79.6
17.5°	915.2	908.3	899.0	874.8	836.7	815.9	487.0	172.0	88.9	75.0	78.5
20°	1026.0	1021.3	1008.7	989.0	951.0	931.3	556.3	172.0	83.1	72.7	77.3
22.5°	1169.1	1158.7	1142.5	1113.7	1066.4	1036.4	622.0	168.5	77.3	70.4	75.0
25°	1300.6	1293.7	1272.9	1238.3	1187.5	1157.5	677.4	161.6	70.4	66.9	72.7
27.5°	1379.1	1374.5	1354.9	1319.1	1262.5	1239.5	723.6	151.2	63.5	63.5	71.6
30°	1439.1	1429.9	1410.3	1375.6	1317.9	1290.2	767.5	138.5	57.7	60.0	69.2
32.5°	1469.1	1465.7	1448.4	1418.3	1361.8	1330.6	803.2	122.3	50.8	57.7	68.1
35°	1486.4	1483.0	1469.1	1440.3	1387.2	1357.2	818.2	107.3	46.2	55.4	66.9
37.5°	1500.3	1496.8	1479.5	1450.7	1397.6	1366.4	811.3	91.2	41.5	53.1	65.8
40°	1516.4	1503.7	1477.2	1448.4	1399.9	1369.9	794.0	76.2	38.1	51.9	65.8
42.5°	1555.7	1511.8	1470.3	1443.7	1397.6	1363.0	744.4	60.0	34.6	49.6	64.6
45°	1586.8	1509.5	1456.4	1435.7	1388.3	1349.1	679.7	43.9	33.5	48.5	64.6
47.5°	1504.9	1457.6	1433.4	1421.8	1371.0	1328.3	612.8	30.0	32.3	47.3	63.5
50°	1378.0	1372.2	1363.0	1364.1	1317.9	1283.3	515.9	20.8	30.0	46.2	62.3
52.5°	1316.8	1309.9	1293.7	1282.2	1236.0	1206.0	408.5	16.2	28.9	45.0	61.2
55°	1146.0	1150.6	1133.3	1140.2	1126.4	1111.4	258.5	15.0	27.7	42.7	60.0
57.5°	754.8	777.8	818.2	866.7	910.6	940.6	139.6	15.0	25.4	41.5	57.7
60°	672.8	667.1	665.9	675.1	694.7	710.9	48.5	13.8	24.2	38.1	55.4
62.5°	368.1	365.8	400.5	459.3	493.9	497.4	13.8	13.8	21.9	35.8	51.9
65°	87.7	91.2	101.6	126.9	150.0	165.0	10.4	12.7	19.6	33.5	48.5
67.5°	13.8	15.0	15.0	18.5	20.8	20.8	9.2	11.5	17.3	30.0	45.0
70°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	10.4	15.0	26.5	40.4
72.5°	6.9	6.9	6.9	6.9	6.9	6.9	8.1	9.2	12.7	23.1	34.6
75°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	8.1	10.4	18.5	30.0
77.5°	4.6	4.6	4.6	4.6	4.6	4.6	5.8	6.9	9.2	15.0	24.2
80°	3.5	3.5	3.5	3.5	3.5	3.5	4.6	5.8	6.9	11.5	18.5
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	3.5	4.6	5.8	9.2	13.8
85°	1.2	1.2	1.2	1.2	2.3	2.3	2.3	3.5	3.5	5.8	9.2
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.3	2.3	2.3	3.5	4.6
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: P1313631

CATALOG NUMBER: P3SQAS17R659730DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	111.9	111.9
2.5°	94.6	93.5
5°	85.4	85.4
7.5°	81.9	81.9
10°	80.8	81.9
12.5°	80.8	81.9
15°	80.8	81.9
17.5°	80.8	81.9
20°	79.6	80.8
22.5°	78.5	79.6
25°	77.3	79.6
27.5°	76.2	79.6
30°	76.2	79.6
32.5°	76.2	79.6
35°	75.0	79.6
37.5°	75.0	79.6
40°	75.0	79.6
42.5°	75.0	79.6
45°	75.0	79.6
47.5°	75.0	79.6
50°	75.0	79.6
52.5°	73.9	79.6
55°	73.9	78.5
57.5°	71.6	76.2
60°	69.2	73.9
62.5°	66.9	71.6
65°	63.5	68.1
67.5°	60.0	63.5
70°	54.2	58.9
72.5°	48.5	51.9
75°	41.5	45.0
77.5°	34.6	38.1
80°	27.7	30.0
82.5°	19.6	21.9
85°	12.7	13.8
87.5°	5.8	5.8
90°	0.0	0.0

(END OF REPORT)