

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: P1306965

Luminaire Tested: P3SQAS13R659027DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306965
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: P3SQAS13R659027DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

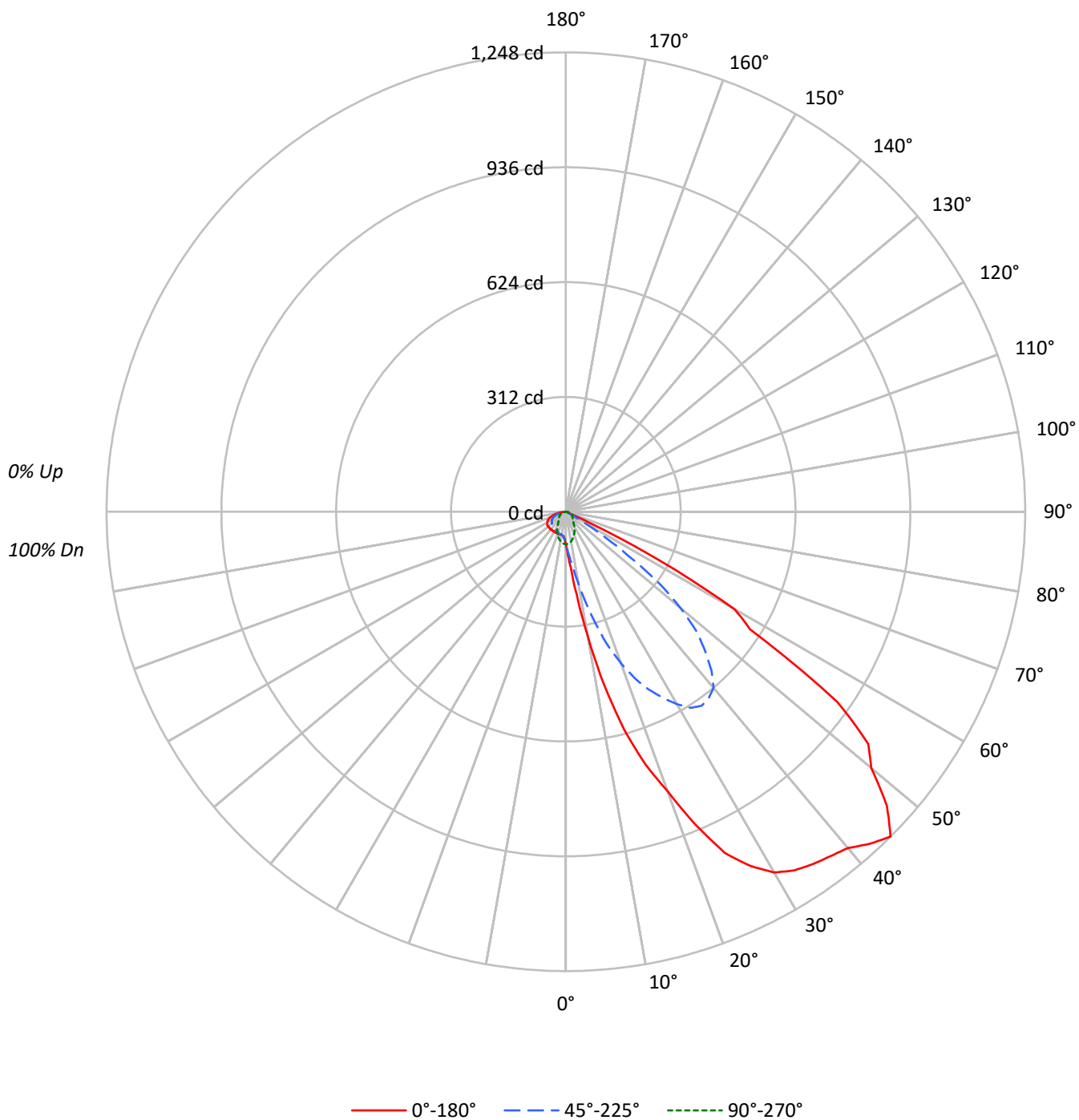
Lumens per Lamp: N/A
Luminaire Lumens: 905.0 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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

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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	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°	15156	15156	15156	15156	15156
5°	26520	21645	14902	12084	11600
10°	59984	34906	14288	11105	11262
15°	109047	56146	13265	11161	11482
20°	147848	80165	11968	11143	11638
25°	194340	101227	10527	10870	11896
30°	225016	119995	9028	10818	12449
35°	245713	135272	7632	11059	13161
40°	268054	140356	6722	11623	14074
45°	303889	130183	6406	12373	15247
50°	290276	108673	6323	13129	16772
55°	270565	61043	6546	14172	18526
60°	182212	13123	6579	15018	20012
65°	28118	3342	6276	15526	21802
70°	3223	3223	5942	16013	23314
75°	2994	2994	5456	15704	23556
80°	2678	3570	5356	14381	23406
85°	1778	3557	5335	14425	21539

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 303889 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.7	1.2
10°-20°	57.5	6.4
20°-30°	135.2	14.9
30°-40°	204.3	22.6
40°-50°	234.8	25.9
50°-60°	186.4	20.6
60°-70°	55.8	6.2
70°-80°	15.2	1.7
80°-90°	5.1	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°	203.4	22.5
0°-40°	407.7	45.0
0°-60°	828.9	91.6
0°-90°	905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	905.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	88	88	88	88	88	
5°	153	125	86	70	67	21
15°	612	315	74	63	64	176
25°	1023	533	55	57	63	467
35°	1169	643	36	53	63	733
45°	1248	534	26	51	63	927
55°	901	203	22	47	62	742
65°	69	8	15	38	54	155
75°	4	4	8	24	35	5
85°	1	2	3	7	11	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
2.5°	111.6	112.5	111.6	111.6	110.7	109.8	103.4	96.2	88.0	81.7	77.1
5°	153.4	154.3	151.5	151.5	149.7	147.0	125.2	104.4	86.2	76.2	69.9
7.5°	226.9	230.5	225.9	220.5	210.5	208.7	156.1	112.5	84.4	70.8	65.3
10°	343.0	340.3	335.7	324.9	307.6	299.4	199.6	120.7	81.7	67.1	63.5
12.5°	483.7	476.4	470.9	451.0	427.4	413.8	254.1	127.9	78.0	63.5	62.6
15°	611.6	606.2	593.4	574.4	545.4	534.5	314.9	132.5	74.4	60.8	62.6
17.5°	719.6	714.1	706.9	687.8	657.9	641.5	382.9	135.2	69.9	59.0	61.7
20°	806.7	803.1	793.1	777.7	747.7	732.3	437.4	135.2	65.3	57.2	60.8
22.5°	919.2	911.0	898.3	875.7	838.4	814.9	489.1	132.5	60.8	55.4	59.0
25°	1022.7	1017.2	1000.9	973.7	933.7	910.1	532.7	127.0	55.4	52.6	57.2
27.5°	1084.4	1080.7	1065.3	1037.2	992.7	974.6	568.9	118.9	49.9	49.9	56.3
30°	1131.5	1124.3	1108.9	1081.6	1036.3	1014.5	603.4	108.9	45.4	47.2	54.4
32.5°	1155.1	1152.4	1138.8	1115.2	1070.7	1046.2	631.6	96.2	39.9	45.4	53.5
35°	1168.7	1166.0	1155.1	1132.4	1090.7	1067.1	643.4	84.4	36.3	43.6	52.6
37.5°	1179.6	1176.9	1163.3	1140.6	1098.9	1074.4	637.9	71.7	32.7	41.7	51.7
40°	1192.3	1182.4	1161.5	1138.8	1100.7	1077.1	624.3	59.9	29.9	40.8	51.7
42.5°	1223.2	1188.7	1156.0	1135.2	1098.9	1071.7	585.3	47.2	27.2	39.0	50.8
45°	1247.7	1186.9	1145.2	1128.8	1091.6	1060.8	534.5	34.5	26.3	38.1	50.8
47.5°	1183.3	1146.1	1127.0	1117.9	1078.0	1044.4	481.8	23.6	25.4	37.2	49.9
50°	1083.4	1078.9	1071.7	1072.6	1036.3	1009.0	405.6	16.3	23.6	36.3	49.0
52.5°	1035.4	1029.9	1017.2	1008.1	971.8	948.2	321.2	12.7	22.7	35.4	48.1
55°	901.1	904.7	891.1	896.5	885.6	873.8	203.3	11.8	21.8	33.6	47.2
57.5°	593.4	611.6	643.4	681.5	715.9	739.5	109.8	11.8	20.0	32.7	45.4
60°	529.0	524.5	523.6	530.8	546.3	559.0	38.1	10.9	19.1	29.9	43.6
62.5°	289.5	287.6	314.9	361.1	388.4	391.1	10.9	10.9	17.2	28.1	40.8
65°	69.0	71.7	79.9	99.8	118.0	129.8	8.2	10.0	15.4	26.3	38.1
67.5°	10.9	11.8	11.8	14.5	16.3	16.3	7.3	9.1	13.6	23.6	35.4
70°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	8.2	11.8	20.9	31.8
72.5°	5.4	5.4	5.4	5.4	5.4	5.4	6.4	7.3	10.0	18.1	27.2
75°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.4	8.2	14.5	23.6
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	4.5	5.4	7.3	11.8	19.1
80°	2.7	2.7	2.7	2.7	2.7	2.7	3.6	4.5	5.4	9.1	14.5
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	2.7	3.6	4.5	7.3	10.9
85°	0.9	0.9	0.9	0.9	1.8	1.8	1.8	2.7	2.7	4.5	7.3
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	2.7	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	88.0	88.0
2.5°	74.4	73.5
5°	67.1	67.1
7.5°	64.4	64.4
10°	63.5	64.4
12.5°	63.5	64.4
15°	63.5	64.4
17.5°	63.5	64.4
20°	62.6	63.5
22.5°	61.7	62.6
25°	60.8	62.6
27.5°	59.9	62.6
30°	59.9	62.6
32.5°	59.9	62.6
35°	59.0	62.6
37.5°	59.0	62.6
40°	59.0	62.6
42.5°	59.0	62.6
45°	59.0	62.6
47.5°	59.0	62.6
50°	59.0	62.6
52.5°	58.1	62.6
55°	58.1	61.7
57.5°	56.3	59.9
60°	54.4	58.1
62.5°	52.6	56.3
65°	49.9	53.5
67.5°	47.2	49.9
70°	42.6	46.3
72.5°	38.1	40.8
75°	32.7	35.4
77.5°	27.2	29.9
80°	21.8	23.6
82.5°	15.4	17.2
85°	10.0	10.9
87.5°	4.5	4.5
90°	0.0	0.0

(END OF REPORT)