

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: P1310156

Luminaire Tested: P3SQAS09R709040DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R709040DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

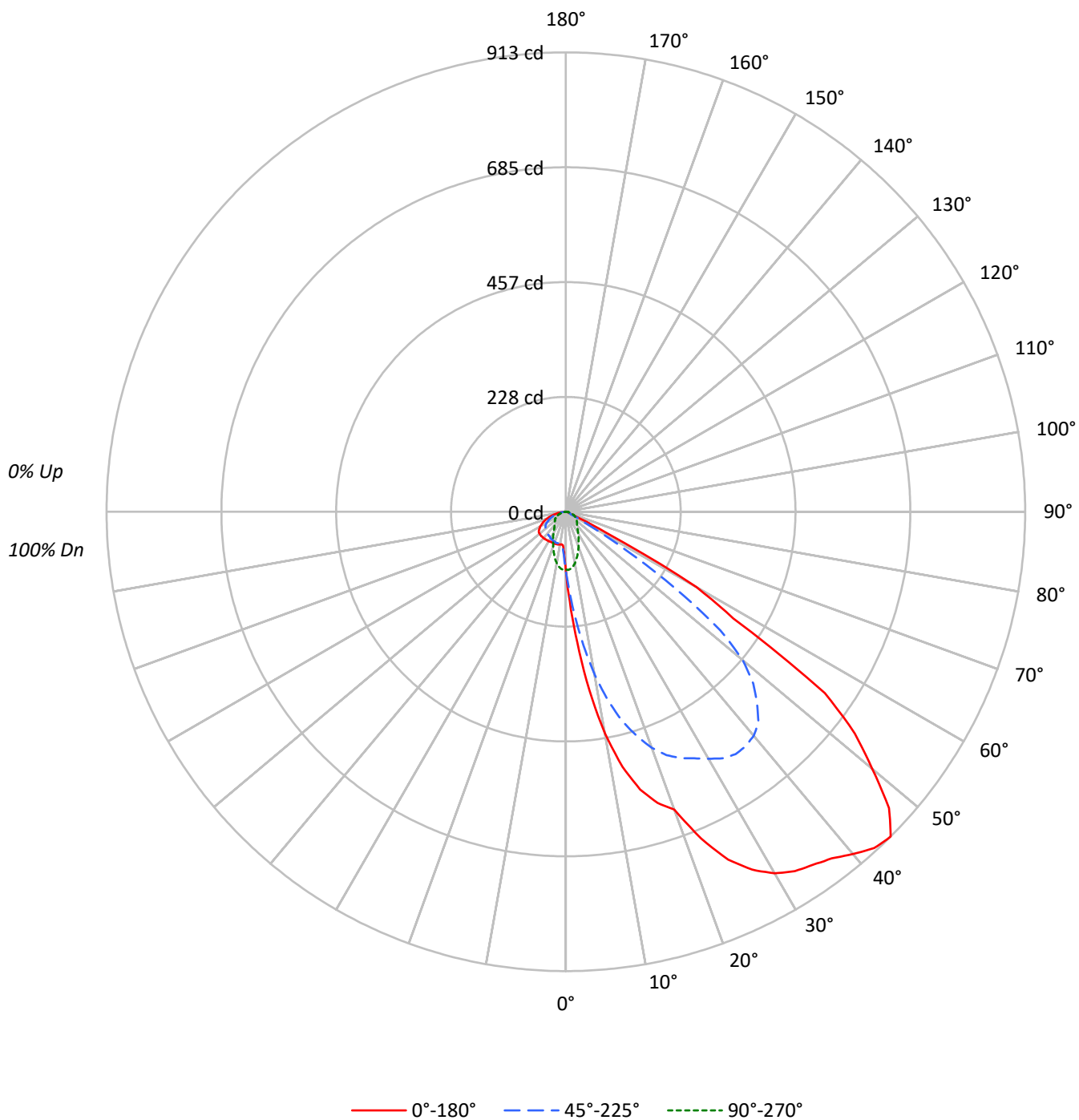
Lumens per Lamp: N/A
Luminaire Lumens: 789.0 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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			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	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75		
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54		
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31		
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28		
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19788	19788	19788	19788	19788
5°	45053	36063	19605	12378	11566
10°	78049	57273	18170	11280	11560
15°	101897	76490	15869	11500	11928
20°	115409	91473	13562	11693	12408
25°	144952	102614	11364	11820	12713
30°	164999	112717	9705	12051	13463
35°	180075	123624	8431	12257	14234
40°	199618	130598	7779	12747	15400
45°	222394	130767	7672	13420	16684
50°	213032	122953	7582	14120	18139
55°	188624	79659	7807	14893	19607
60°	103299	17084	7853	15190	20322
65°	7376	4157	7702	15078	20539
70°	3575	3978	7150	14250	19840
75°	3127	4192	6787	13641	18366
80°	3075	3868	6248	12497	17158
85°	3162	4742	6126	10868	15611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 222394 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.0	1.9
10°-20°	64.1	8.1
20°-30°	123.0	15.6
30°-40°	174.0	22.0
40°-50°	196.8	24.9
50°-60°	155.9	19.8
60°-70°	42.0	5.3
70°-80°	13.9	1.8
80°-90°	4.3	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°	202.1	25.6
0°-40°	376.1	47.7
0°-60°	728.7	92.4
0°-90°	789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	789.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	115	115	115	115	115	
5°	261	209	113	72	67	31
15°	572	429	89	64	67	161
25°	763	540	60	62	67	350
35°	856	588	40	58	68	539
45°	913	537	32	55	68	683
55°	628	265	26	50	65	510
65°	18	10	19	37	50	65
75°	5	6	10	20	28	5
85°	2	2	3	6	8	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9
2.5°	178.7	178.7	177.9	174.8	173.2	169.2	166.1	157.4	136.2	115.7	99.2
5°	260.6	264.5	259.0	258.2	253.5	246.4	241.7	208.6	157.4	113.4	85.0
7.5°	357.4	359.0	357.4	349.5	342.4	330.6	319.6	267.6	178.7	109.4	74.8
10°	446.3	444.0	439.3	433.7	423.5	410.9	392.0	327.5	199.2	103.9	68.5
12.5°	518.8	518.0	512.5	506.9	494.4	477.8	458.9	381.8	216.5	96.8	65.3
15°	571.5	571.5	566.0	559.7	547.9	534.5	513.2	429.0	230.6	89.0	62.2
17.5°	606.9	605.3	601.4	596.7	587.2	573.9	557.3	466.8	240.1	81.1	61.4
20°	629.7	629.0	625.8	618.7	610.9	600.6	585.7	499.1	244.0	74.0	60.6
22.5°	703.0	696.7	684.9	669.9	651.0	626.6	606.1	523.5	242.5	66.1	59.0
25°	762.8	760.4	747.8	729.7	704.5	673.0	639.2	540.0	234.6	59.8	57.5
27.5°	802.1	798.2	786.4	766.7	740.0	709.3	677.8	552.6	223.6	54.3	55.1
30°	829.7	827.3	815.5	793.5	765.9	732.1	699.8	566.8	208.6	48.8	52.7
32.5°	847.0	844.7	832.8	813.2	786.4	751.0	714.0	580.9	190.5	44.1	50.4
35°	856.5	854.1	840.7	823.4	798.2	763.6	724.2	588.0	168.5	40.1	48.0
37.5°	868.3	863.5	845.4	824.2	799.0	766.7	727.4	587.2	146.4	37.0	46.4
40°	887.9	875.4	849.4	821.0	795.1	762.8	725.0	580.9	122.0	34.6	44.9
42.5°	906.8	888.7	850.2	816.3	787.2	755.7	716.3	566.8	95.2	33.1	44.1
45°	913.1	886.4	839.1	805.3	777.7	745.5	704.5	536.9	64.5	31.5	42.5
47.5°	871.4	851.7	812.4	787.2	761.2	729.7	687.2	505.4	37.0	29.9	40.9
50°	795.1	782.5	760.4	744.7	730.5	708.5	666.7	458.9	22.0	28.3	39.4
52.5°	724.2	720.3	704.5	691.9	684.1	673.8	636.0	387.3	18.1	27.6	37.8
55°	628.2	615.6	611.6	606.9	623.5	622.7	571.5	265.3	17.3	26.0	36.2
57.5°	394.4	399.9	420.4	458.1	503.0	529.0	527.4	141.7	16.5	24.4	33.8
60°	299.9	299.1	305.4	321.2	354.2	391.2	425.9	49.6	15.7	22.8	32.3
62.5°	89.7	92.1	111.0	162.9	195.2	240.9	219.6	11.8	15.0	20.5	29.1
65°	18.1	18.9	18.9	21.3	26.0	39.4	48.0	10.2	14.2	18.9	26.8
67.5°	7.9	7.9	7.9	8.7	8.7	10.2	8.7	9.4	12.6	16.5	23.6
70°	7.1	7.1	7.1	7.1	7.1	7.1	7.9	7.9	11.0	14.2	20.5
72.5°	5.5	5.5	5.5	6.3	6.3	6.3	6.3	7.1	9.4	11.8	17.3
75°	4.7	4.7	4.7	4.7	5.5	5.5	5.5	6.3	7.9	10.2	14.2
77.5°	3.9	3.9	3.9	3.9	3.9	4.7	4.7	4.7	6.3	7.9	11.8
80°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.9	4.7	6.3	8.7
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.1	3.9	4.7	6.3
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	3.1	3.9
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	2.4
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):

	135°	157.5°	180°
0°	114.9	114.9	114.9
2.5°	87.4	82.7	80.3
5°	71.6	67.7	66.9
7.5°	66.1	65.3	65.3
10°	64.5	65.3	66.1
12.5°	64.5	66.1	66.9
15°	64.5	66.1	66.9
17.5°	64.5	66.1	66.9
20°	63.8	66.1	67.7
22.5°	63.0	66.1	66.9
25°	62.2	66.1	66.9
27.5°	61.4	65.3	66.9
30°	60.6	65.3	67.7
32.5°	59.0	65.3	67.7
35°	58.3	65.3	67.7
37.5°	57.5	65.3	68.5
40°	56.7	65.3	68.5
42.5°	55.9	65.3	68.5
45°	55.1	64.5	68.5
47.5°	53.5	64.5	68.5
50°	52.7	63.8	67.7
52.5°	51.2	63.0	67.7
55°	49.6	61.4	65.3
57.5°	47.2	59.0	62.2
60°	44.1	55.9	59.0
62.5°	40.1	52.0	54.3
65°	37.0	47.2	50.4
67.5°	32.3	41.7	44.9
70°	28.3	36.2	39.4
72.5°	24.4	30.7	33.8
75°	20.5	25.2	27.6
77.5°	15.7	20.5	22.0
80°	12.6	15.7	17.3
82.5°	8.7	11.0	11.8
85°	5.5	7.1	7.9
87.5°	2.4	3.1	3.1
90°	0.0	0.0	0.0

(END OF REPORT)