

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: P1307921

Luminaire Tested: P3SQAS09R709030DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307921
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: P3SQAS09R709030DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

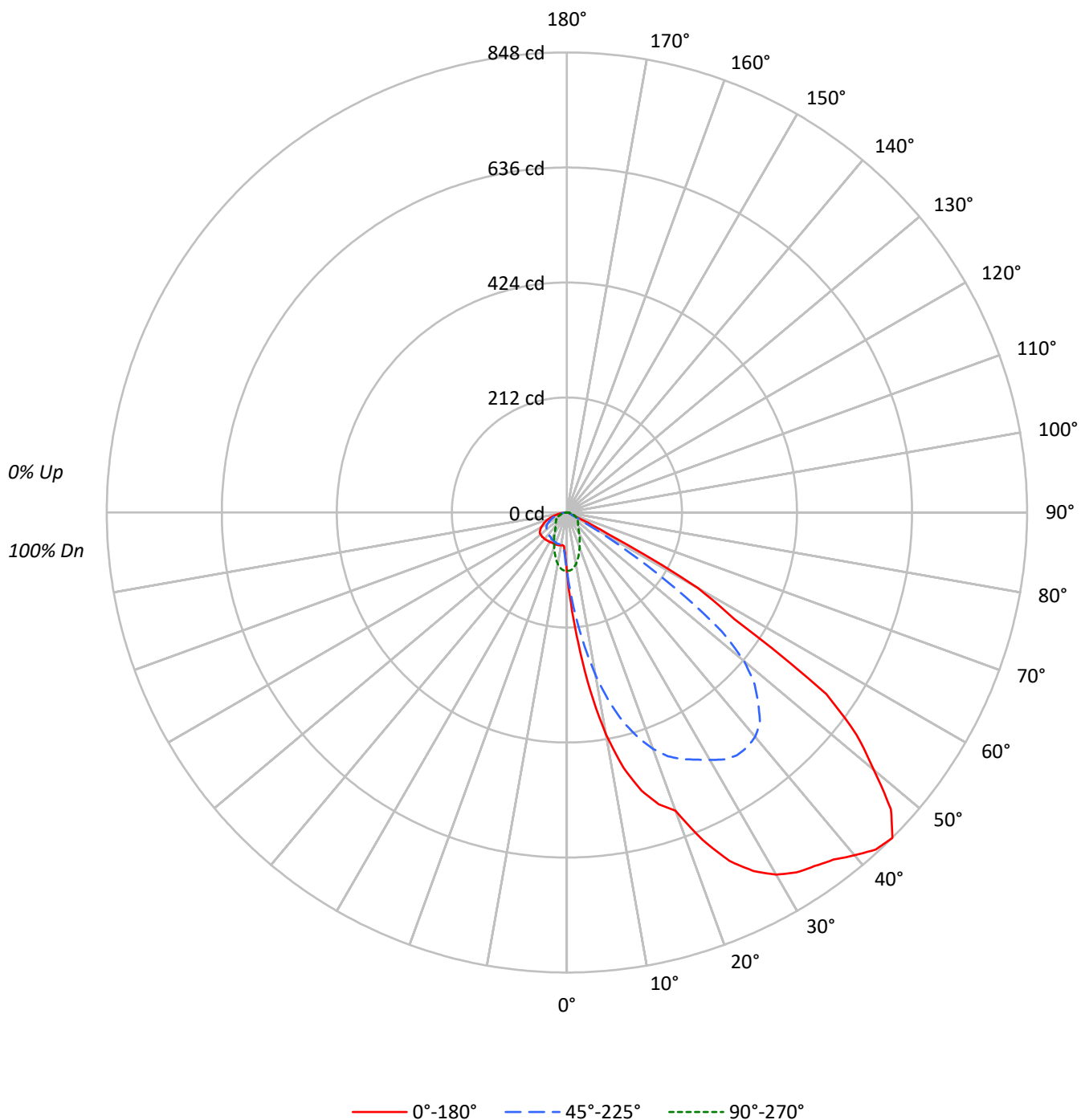
Lumens per Lamp: N/A
Luminaire Lumens: 733.0 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	18393	18393	18393	18393	18393
5°	41854	33504	18204	11497	10753
10°	72523	53198	16876	10493	10738
15°	94658	71070	14727	10698	11090
20°	107234	84985	12591	10850	11528
25°	134653	95336	10565	10984	11820
30°	153286	104703	9009	11196	12509
35°	167292	114857	7842	11374	13224
40°	185455	121336	7239	11848	14299
45°	206612	121488	7136	12470	15490
50°	197894	114246	7047	13129	16853
55°	175232	74014	7236	13842	18226
60°	95962	15879	7302	14122	18876
65°	6846	3871	7172	14018	19072
70°	3323	3676	6647	13243	18430
75°	2928	3926	6321	12643	17035
80°	2876	3670	5852	11604	15968
85°	2964	4347	5730	10078	14425

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 206612 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.9	1.9
10°-20°	59.6	8.1
20°-30°	114.3	15.6
30°-40°	161.6	22.0
40°-50°	182.8	24.9
50°-60°	144.8	19.8
60°-70°	39.0	5.3
70°-80°	13.0	1.8
80°-90°	4.0	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°	187.8	25.6
0°-40°	349.4	47.7
0°-60°	677.0	92.4
0°-90°	733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	733.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	107	107	107	107	107	
5°	242	194	105	66	62	29
15°	531	399	83	60	62	150
25°	709	502	56	58	62	325
35°	796	546	37	54	63	501
45°	848	499	29	51	64	635
55°	584	246	24	46	61	474
65°	17	10	18	34	47	61
75°	4	6	10	19	26	5
85°	2	2	3	5	7	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°	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8
2.5°	166.0	166.0	165.3	162.4	160.9	157.2	154.3	146.3	126.5	107.5	92.1
5°	242.1	245.7	240.6	239.9	235.5	228.9	224.5	193.8	146.3	105.3	79.0
7.5°	332.0	333.5	332.0	324.7	318.1	307.2	296.9	248.6	166.0	101.7	69.5
10°	414.7	412.5	408.1	403.0	393.4	381.7	364.2	304.2	185.0	96.5	63.6
12.5°	481.9	481.2	476.1	471.0	459.3	443.9	426.4	354.7	201.1	90.0	60.7
15°	530.9	530.9	525.8	520.0	509.0	496.6	476.8	398.6	214.3	82.6	57.8
17.5°	563.8	562.4	558.7	554.3	545.6	533.1	517.8	433.7	223.1	75.3	57.0
20°	585.1	584.3	581.4	574.8	567.5	558.0	544.1	463.7	226.7	68.7	56.3
22.5°	653.1	647.2	636.2	622.3	604.8	582.1	563.1	486.3	225.2	61.4	54.8
25°	708.6	706.5	694.7	677.9	654.5	625.3	593.8	501.7	217.9	55.6	53.4
27.5°	745.2	741.6	730.6	712.3	687.4	658.9	629.7	513.4	207.7	50.5	51.2
30°	770.8	768.6	757.6	737.2	711.6	680.1	650.1	526.5	193.8	45.3	49.0
32.5°	786.9	784.7	773.7	755.4	730.6	697.7	663.3	539.7	177.0	41.0	46.8
35°	795.7	793.5	781.0	765.0	741.6	709.4	672.8	546.3	156.5	37.3	44.6
37.5°	806.6	802.3	785.4	765.7	742.3	712.3	675.7	545.6	136.0	34.4	43.1
40°	824.9	813.2	789.1	762.8	738.6	708.6	673.5	539.7	113.4	32.2	41.7
42.5°	842.5	825.7	789.8	758.4	731.3	702.1	665.5	526.5	88.5	30.7	41.0
45°	848.3	823.5	779.6	748.1	722.5	692.6	654.5	498.8	60.0	29.3	39.5
47.5°	809.6	791.3	754.7	731.3	707.2	677.9	638.4	469.5	34.4	27.8	38.0
50°	738.6	726.9	706.5	691.8	678.7	658.2	619.4	426.4	20.5	26.3	36.6
52.5°	672.8	669.2	654.5	642.8	635.5	626.0	590.9	359.8	16.8	25.6	35.1
55°	583.6	571.9	568.2	563.8	579.2	578.5	530.9	246.5	16.1	24.1	33.6
57.5°	366.4	371.5	390.5	425.6	467.3	491.4	490.0	131.6	15.4	22.7	31.4
60°	278.6	277.9	283.8	298.4	329.1	363.5	395.6	46.1	14.6	21.2	30.0
62.5°	83.4	85.6	103.1	151.4	181.4	223.8	204.0	11.0	13.9	19.0	27.1
65°	16.8	17.6	17.6	19.7	24.1	36.6	44.6	9.5	13.2	17.6	24.9
67.5°	7.3	7.3	7.3	8.0	8.0	9.5	8.0	8.8	11.7	15.4	21.9
70°	6.6	6.6	6.6	6.6	6.6	6.6	7.3	7.3	10.2	13.2	19.0
72.5°	5.1	5.1	5.1	5.9	5.9	5.9	5.9	6.6	8.8	11.0	16.1
75°	4.4	4.4	4.4	4.4	5.1	5.1	5.1	5.9	7.3	9.5	13.2
77.5°	3.7	3.7	3.7	3.7	3.7	4.4	4.4	4.4	5.9	7.3	11.0
80°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.7	4.4	5.9	8.0
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9	3.7	4.4	5.9
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.2	2.9	3.7
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5	2.2
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°	106.8	106.8	106.8
2.5°	81.2	76.8	74.6
5°	66.5	62.9	62.2
7.5°	61.4	60.7	60.7
10°	60.0	60.7	61.4
12.5°	60.0	61.4	62.2
15°	60.0	61.4	62.2
17.5°	60.0	61.4	62.2
20°	59.2	61.4	62.9
22.5°	58.5	61.4	62.2
25°	57.8	61.4	62.2
27.5°	57.0	60.7	62.2
30°	56.3	60.7	62.9
32.5°	54.8	60.7	62.9
35°	54.1	60.7	62.9
37.5°	53.4	60.7	63.6
40°	52.7	60.7	63.6
42.5°	51.9	60.7	63.6
45°	51.2	60.0	63.6
47.5°	49.7	60.0	63.6
50°	49.0	59.2	62.9
52.5°	47.5	58.5	62.9
55°	46.1	57.0	60.7
57.5°	43.9	54.8	57.8
60°	41.0	51.9	54.8
62.5°	37.3	48.3	50.5
65°	34.4	43.9	46.8
67.5°	30.0	38.8	41.7
70°	26.3	33.6	36.6
72.5°	22.7	28.5	31.4
75°	19.0	23.4	25.6
77.5°	14.6	19.0	20.5
80°	11.7	14.6	16.1
82.5°	8.0	10.2	11.0
85°	5.1	6.6	7.3
87.5°	2.2	2.9	2.9
90°	0.0	0.0	0.0

(END OF REPORT)