

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: P1314464

Luminaire Tested: P3SQAS13R709735DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314464
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: P3SQAS13R709735DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

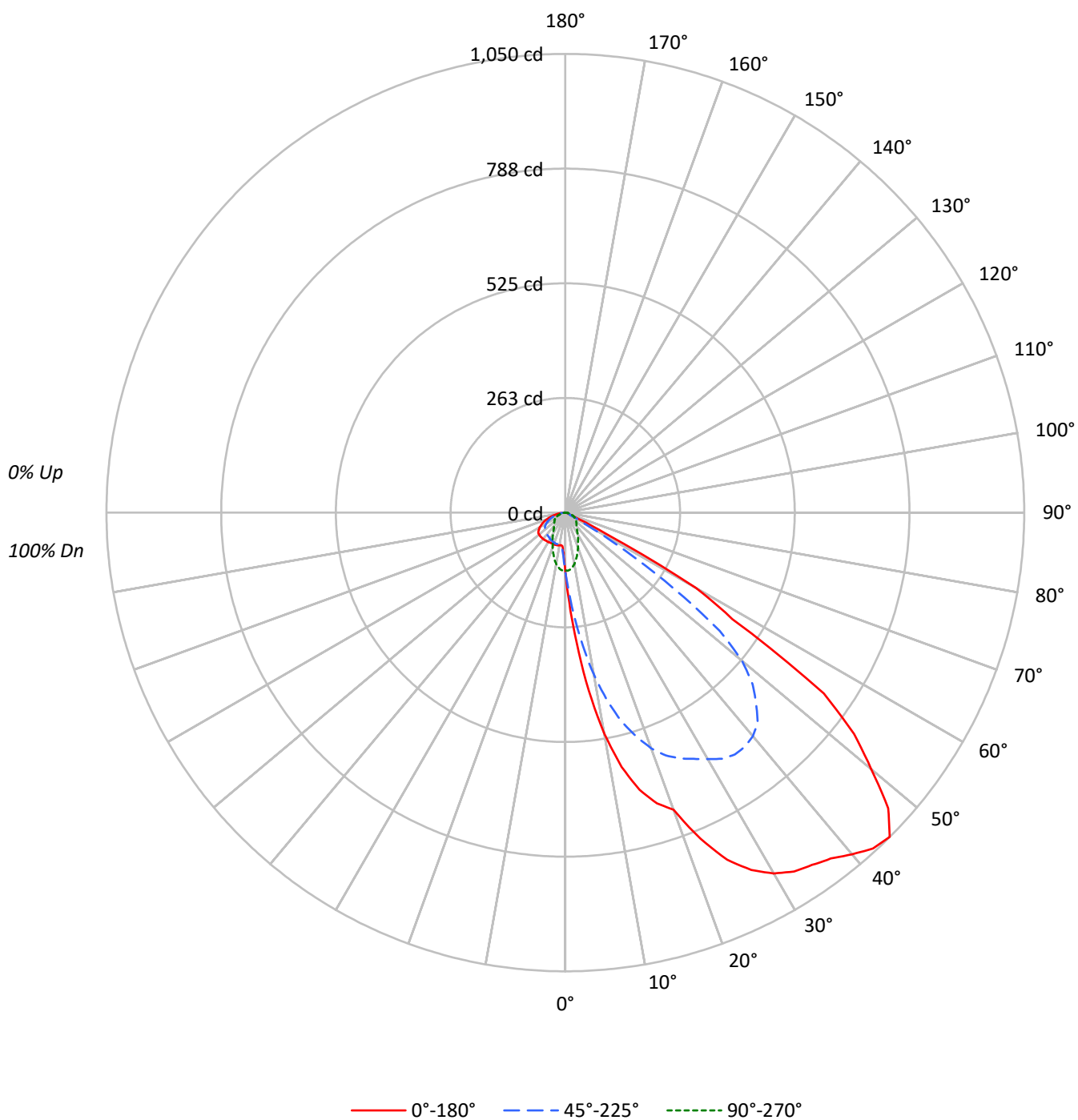
Lumens per Lamp: N/A
Luminaire Lumens: 907.0 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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°	22751	22751	22751	22751	22751
5°	51778	41457	22526	14228	13295
10°	89731	65825	20881	12976	13291
15°	117142	87937	18240	13230	13711
20°	132673	105145	15597	13434	14259
25°	166634	117969	13074	13587	14613
30°	189678	129561	11156	13861	15472
35°	206986	142126	9713	14086	16357
40°	229474	150135	8948	14658	17693
45°	255665	150325	8817	15417	19168
50°	244889	141360	8735	16237	20845
55°	216818	91580	8978	17115	22550
60°	118765	19633	9024	17463	23388
65°	8476	4809	8843	17319	23595
70°	4079	4532	8208	16416	22760
75°	3593	4791	7852	15637	21094
80°	3570	4463	7141	14381	19737
85°	3557	5335	7114	12449	17784

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 255665 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.2	1.9
10°-20°	73.7	8.1
20°-30°	141.4	15.6
30°-40°	200.0	22.1
40°-50°	226.2	24.9
50°-60°	179.2	19.8
60°-70°	48.3	5.3
70°-80°	16.0	1.8
80°-90°	4.9	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°	232.4	25.6
0°-40°	432.4	47.7
0°-60°	837.8	92.4
0°-90°	907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	907.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	132	132	132	132	132	
5°	300	240	130	82	77	35
15°	657	493	102	74	77	185
25°	877	621	69	72	77	402
35°	984	676	46	67	78	620
45°	1050	617	36	63	79	785
55°	722	305	30	57	75	586
65°	21	12	22	42	58	75
75°	5	7	12	24	32	6
85°	2	3	4	6	9	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°	132.1	132.1	132.1	132.1	132.1	132.1	132.1	132.1	132.1	132.1	132.1
2.5°	205.4	205.4	204.5	200.9	199.1	194.6	190.9	181.0	156.6	133.0	114.0
5°	299.5	304.1	297.7	296.8	291.4	283.2	277.8	239.8	181.0	130.3	97.7
7.5°	410.8	412.6	410.8	401.8	393.6	380.1	367.4	307.7	205.4	125.8	86.0
10°	513.1	510.4	504.9	498.6	486.8	472.4	450.6	376.4	228.9	119.4	78.7
12.5°	596.3	595.4	589.1	582.8	568.3	549.3	527.6	438.9	248.9	111.3	75.1
15°	657.0	657.0	650.6	643.4	629.8	614.4	590.0	493.2	265.1	102.3	71.5
17.5°	697.7	695.9	691.4	685.9	675.1	659.7	640.7	536.6	276.0	93.2	70.6
20°	723.9	723.0	719.4	711.3	702.2	690.5	673.3	573.7	280.5	85.1	69.7
22.5°	808.1	800.8	787.3	770.1	748.4	720.3	696.8	601.8	278.7	76.0	67.9
25°	876.9	874.1	859.7	838.9	809.9	773.7	734.8	620.8	269.7	68.8	66.1
27.5°	922.1	917.6	904.0	881.4	850.6	815.3	779.1	635.3	257.0	62.4	63.3
30°	953.8	951.1	937.5	912.2	880.5	841.6	804.5	651.5	239.8	56.1	60.6
32.5°	973.7	971.0	957.4	934.8	904.0	863.3	820.8	667.8	219.0	50.7	57.9
35°	984.5	981.8	966.4	946.5	917.6	877.8	832.5	676.0	193.7	46.2	55.2
37.5°	998.1	992.7	971.9	947.4	918.5	881.4	836.1	675.1	168.3	42.5	53.4
40°	1020.7	1006.3	976.4	943.8	914.0	876.9	833.4	667.8	140.3	39.8	51.6
42.5°	1042.5	1021.6	977.3	938.4	904.9	868.7	823.5	651.5	109.5	38.0	50.7
45°	1049.7	1018.9	964.6	925.7	894.1	857.0	809.9	617.2	74.2	36.2	48.9
47.5°	1001.7	979.1	933.9	904.9	875.1	838.9	790.0	581.0	42.5	34.4	47.1
50°	914.0	899.5	874.1	856.0	839.8	814.4	766.5	527.6	25.3	32.6	45.2
52.5°	832.5	828.0	809.9	795.4	786.4	774.6	731.2	445.2	20.8	31.7	43.4
55°	722.1	707.6	703.1	697.7	716.7	715.8	657.0	305.0	19.9	29.9	41.6
57.5°	453.4	459.7	483.2	526.7	578.2	608.1	606.3	162.9	19.0	28.1	38.9
60°	344.8	343.9	351.1	369.2	407.2	449.7	489.6	57.0	18.1	26.2	37.1
62.5°	103.2	105.9	127.6	187.3	224.4	276.9	252.5	13.6	17.2	23.5	33.5
65°	20.8	21.7	21.7	24.4	29.9	45.2	55.2	11.8	16.3	21.7	30.8
67.5°	9.0	9.0	9.0	10.0	10.0	11.8	10.0	10.9	14.5	19.0	27.1
70°	8.1	8.1	8.1	8.1	8.1	8.1	9.0	9.0	12.7	16.3	23.5
72.5°	6.3	6.3	6.3	7.2	7.2	7.2	7.2	8.1	10.9	13.6	19.9
75°	5.4	5.4	5.4	5.4	6.3	6.3	6.3	7.2	9.0	11.8	16.3
77.5°	4.5	4.5	4.5	4.5	4.5	5.4	5.4	5.4	7.2	9.0	13.6
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.5	5.4	7.2	10.0
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.6	4.5	5.4	7.2
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7	3.6	4.5
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	2.7
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°	132.1	132.1	132.1
2.5°	100.4	95.0	92.3
5°	82.3	77.8	76.9
7.5°	76.0	75.1	75.1
10°	74.2	75.1	76.0
12.5°	74.2	76.0	76.9
15°	74.2	76.0	76.9
17.5°	74.2	76.0	76.9
20°	73.3	76.0	77.8
22.5°	72.4	76.0	76.9
25°	71.5	76.0	76.9
27.5°	70.6	75.1	76.9
30°	69.7	75.1	77.8
32.5°	67.9	75.1	77.8
35°	67.0	75.1	77.8
37.5°	66.1	75.1	78.7
40°	65.2	75.1	78.7
42.5°	64.2	75.1	78.7
45°	63.3	74.2	78.7
47.5°	61.5	74.2	78.7
50°	60.6	73.3	77.8
52.5°	58.8	72.4	77.8
55°	57.0	70.6	75.1
57.5°	54.3	67.9	71.5
60°	50.7	64.2	67.9
62.5°	46.2	59.7	62.4
65°	42.5	54.3	57.9
67.5°	37.1	48.0	51.6
70°	32.6	41.6	45.2
72.5°	28.1	35.3	38.9
75°	23.5	29.0	31.7
77.5°	18.1	23.5	25.3
80°	14.5	18.1	19.9
82.5°	10.0	12.7	13.6
85°	6.3	8.1	9.0
87.5°	2.7	3.6	3.6
90°	0.0	0.0	0.0

(END OF REPORT)