

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: P1317752

Luminaire Tested: P3SQAS05R509835DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R509835DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

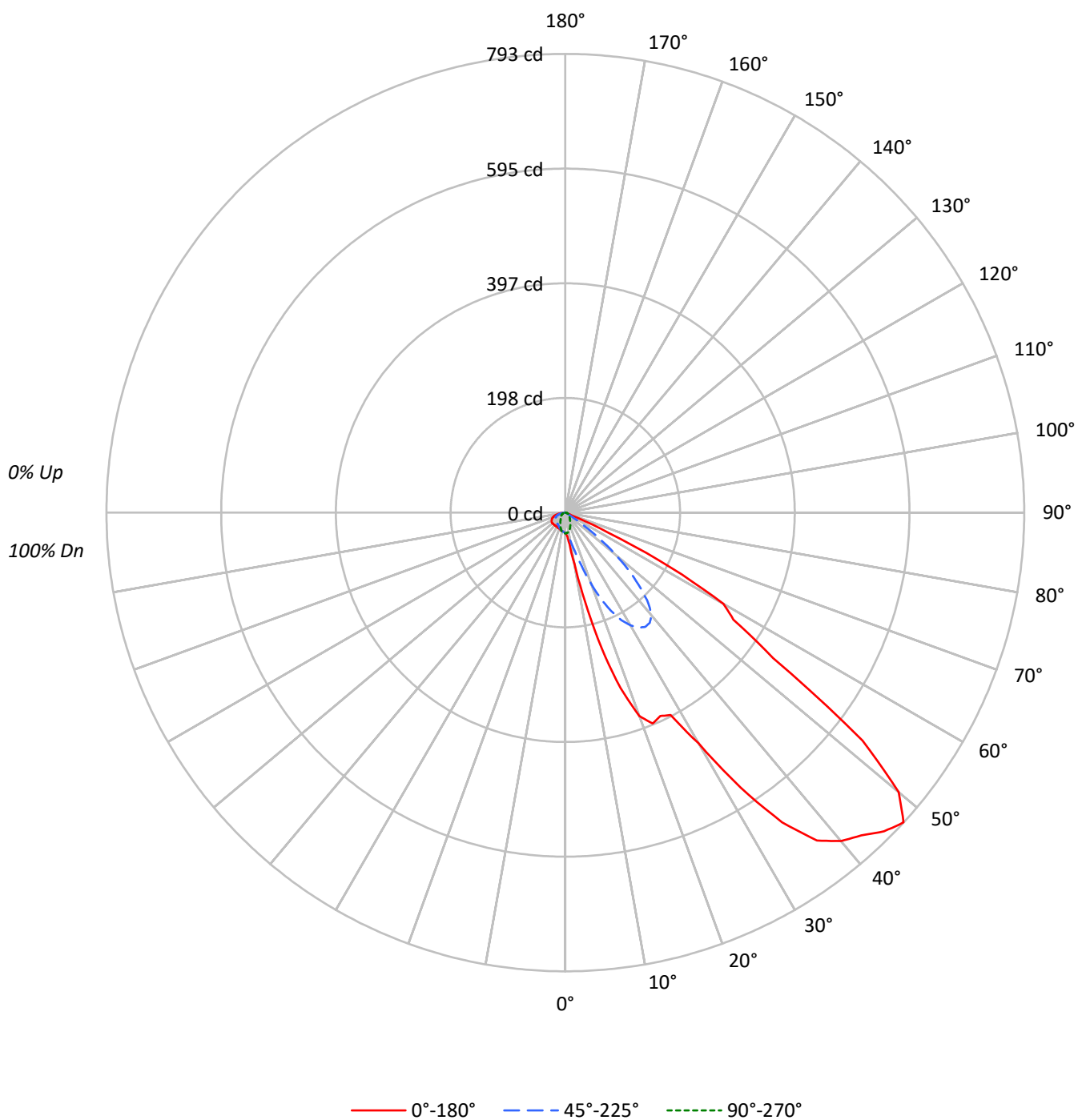
Lumens per Lamp: N/A
Luminaire Lumens: 447.0 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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

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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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6114	6114	6114	6114	6114
5°	7278	6811	6068	5809	5740
10°	15669	8447	5806	5596	5666
15°	43362	13836	5224	5367	5581
20°	68563	24266	4527	5168	5443
25°	73730	35649	3896	4998	5511
30°	91518	44765	3381	4912	5688
35°	137353	50648	2922	4962	6013
40°	166570	52091	2608	5126	6340
45°	189757	44669	2533	5456	6966
50°	201404	30839	2599	5894	7770
55°	131574	12401	2552	6366	8587
60°	108535	2136	2514	6923	9438
65°	32723	1100	2364	7376	10392
70°	1360	1158	2316	7604	11279
75°	1264	1264	2329	7719	12310
80°	1190	1190	2281	7637	12596
85°	790	1581	2964	7707	12251

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 202051 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.8
10°-20°	21.2	4.7
20°-30°	54.4	12.2
30°-40°	97.7	21.9
40°-50°	130.6	29.2
50°-60°	99.4	22.2
60°-70°	30.2	6.8
70°-80°	7.2	1.6
80°-90°	2.6	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°	79.3	17.7
0°-40°	177.0	39.6
0°-60°	407.0	91.1
0°-90°	447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	447.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	42	39	35	34	33	5
15°	243	78	29	30	31	72
25°	388	188	20	26	29	185
35°	653	241	14	24	29	401
45°	779	183	10	22	29	596
55°	438	41	8	21	29	436
65°	80	3	6	18	26	111
75°	2	2	4	12	18	2
85°	0	1	2	4	6	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
2.5°	37.8	37.8	37.8	37.8	37.8	37.8	37.5	37.5	37.5	36.7	35.9
5°	42.1	42.5	42.1	42.1	41.3	41.3	40.5	40.5	39.4	37.1	35.1
7.5°	55.2	54.8	54.4	52.9	51.7	49.0	47.9	45.9	42.5	37.1	34.4
10°	89.6	87.3	85.7	82.2	74.9	70.3	64.1	57.9	48.3	37.1	33.2
12.5°	155.6	155.2	150.6	139.0	128.6	114.3	99.2	84.2	59.5	36.3	31.7
15°	243.2	239.8	233.2	219.7	201.2	178.8	151.7	125.1	77.6	35.1	29.3
17.5°	318.1	313.9	308.9	295.4	274.1	245.9	213.5	176.8	102.3	33.6	27.0
20°	374.1	371.4	367.2	356.4	336.3	310.8	274.5	230.1	132.4	31.7	24.7
22.5°	394.6	394.2	395.0	391.1	381.1	361.0	326.2	279.9	162.2	29.3	22.4
25°	388.0	387.6	392.7	397.7	400.0	391.9	365.2	320.1	187.6	27.4	20.5
27.5°	394.2	393.0	390.7	391.5	398.1	402.7	390.3	351.0	209.6	24.7	18.5
30°	460.2	453.7	443.2	425.5	412.3	411.2	405.8	375.3	225.1	22.0	17.0
32.5°	563.3	555.2	536.3	503.5	472.2	448.3	431.3	395.7	235.9	19.3	15.1
35°	653.3	647.5	625.5	593.0	548.2	503.5	472.6	425.9	240.9	17.0	13.9
37.5°	714.3	712.0	690.3	655.6	610.0	557.1	516.2	456.7	239.8	14.3	12.7
40°	740.9	734.0	715.8	686.5	640.5	593.0	549.8	476.4	231.7	11.6	11.6
42.5°	756.7	749.0	729.3	701.5	656.4	605.8	553.7	467.9	212.4	9.3	11.2
45°	779.1	771.0	745.2	715.4	669.9	611.2	538.6	437.8	183.4	6.9	10.4
47.5°	792.6	787.2	767.9	738.2	683.0	603.5	503.8	409.6	151.3	5.4	10.0
50°	751.7	746.3	732.0	711.6	674.5	577.6	473.3	364.1	115.1	4.2	9.7
52.5°	647.1	651.7	654.4	660.2	633.2	519.7	427.8	327.8	77.6	3.5	8.9
55°	438.2	445.2	452.9	476.1	507.7	462.5	379.9	283.4	41.3	3.5	8.5
57.5°	344.4	342.1	339.8	338.2	362.9	381.5	334.0	226.6	17.8	3.5	7.7
60°	315.1	308.1	303.5	304.6	317.0	309.6	264.5	147.9	6.2	3.5	7.3
62.5°	206.6	212.0	222.4	240.1	231.7	198.8	153.7	58.7	3.1	3.5	6.6
65°	80.3	77.6	80.3	85.3	73.7	54.8	34.4	10.4	2.7	3.1	5.8
67.5°	10.8	9.7	7.3	4.6	4.2	3.9	3.1	2.7	2.7	3.1	5.4
70°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.3	2.3	2.7	4.6
72.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.7	3.9
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.3	3.5
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	2.7
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	2.3
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.5	1.9
85°	0.4	0.8	0.4	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.5
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2	1.2
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):

	112.5°	135°	157.5°	180°
0°	35.5	35.5	35.5	35.5
2.5°	35.1	34.4	34.4	34.4
5°	34.4	33.6	33.6	33.2
7.5°	33.2	32.8	32.8	32.8
10°	32.4	32.0	32.4	32.4
12.5°	30.9	31.3	31.7	31.7
15°	29.3	30.1	30.9	31.3
17.5°	27.8	29.3	30.1	30.5
20°	26.3	28.2	29.3	29.7
22.5°	25.1	27.0	28.6	29.3
25°	23.6	26.3	28.2	29.0
27.5°	22.0	25.1	27.4	28.6
30°	20.8	24.7	27.4	28.6
32.5°	19.7	23.9	27.0	28.2
35°	18.9	23.6	27.0	28.6
37.5°	18.1	23.2	27.0	28.2
40°	17.8	22.8	27.0	28.2
42.5°	17.4	22.8	27.0	28.6
45°	16.6	22.4	27.0	28.6
47.5°	16.2	22.4	27.0	28.6
50°	15.8	22.0	27.0	29.0
52.5°	15.4	21.6	27.0	29.0
55°	14.7	21.2	26.6	28.6
57.5°	14.3	20.8	26.3	27.8
60°	13.5	20.1	25.5	27.4
62.5°	12.7	19.3	24.7	26.3
65°	11.6	18.1	23.6	25.5
67.5°	10.4	16.6	22.4	24.3
70°	9.3	15.1	20.8	22.4
72.5°	8.1	13.5	19.3	20.5
75°	6.9	11.6	17.0	18.5
77.5°	5.8	10.0	14.3	15.4
80°	4.2	7.7	11.6	12.7
82.5°	3.5	5.8	8.5	9.3
85°	2.3	3.9	5.4	6.2
87.5°	1.2	1.9	2.7	3.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)