

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: P1308860

Luminaire Tested: P3SQAS05R559035DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R559035DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

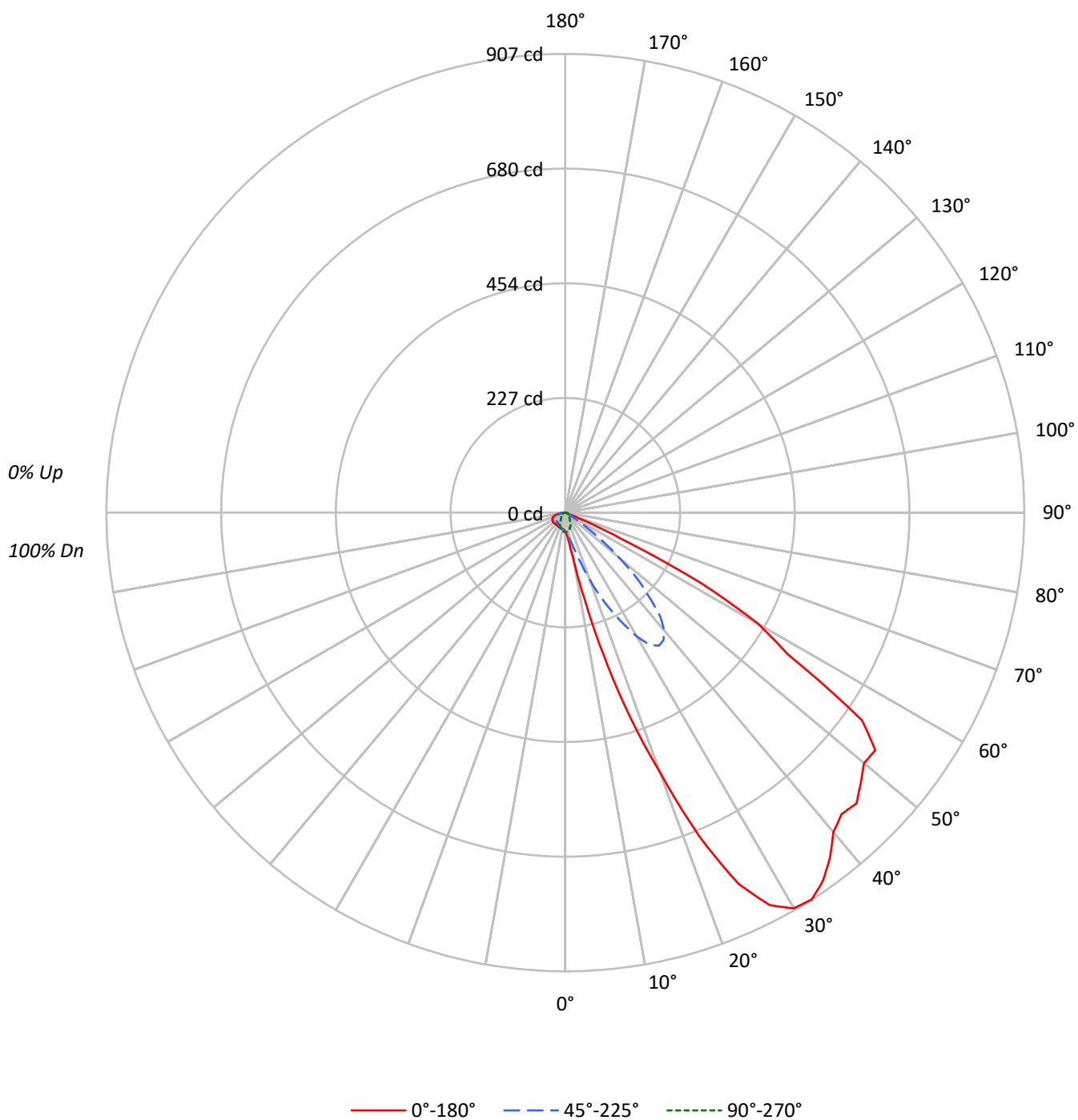
Lumens per Lamp: N/A
Luminaire Lumens: 583.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	107	104	100	97	99	97	94		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81	78	75	73
3	91	81	73	67	89	80	72	67	77	71	65		74	69	64		72	67	63	61
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	51
5	76	63	54	47	74	62	53	47	60	52	47		58	51	46		56	50	46	43
6	69	56	47	40	68	55	46	40	53	46	40		51	45	39		50	44	39	37
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45	38	34	32
8	59	45	36	30	57	44	36	30	43	35	30		41	35	29		40	34	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		36	30	26	24
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6476	6476	6476	6476	6476
5°	8281	7572	6500	6051	5878
10°	16841	9636	6313	5771	5771
15°	51706	14781	5884	5599	5795
20°	99977	25860	5278	5480	5755
25°	153884	40229	4599	5283	5777
30°	179675	56239	3798	5230	5946
35°	186719	67573	3133	5193	6181
40°	185297	68211	2900	5441	6722
45°	198111	56457	2752	5894	7282
50°	206468	37269	2760	6350	8145
55°	214987	16244	2792	6966	8978
60°	151866	3720	2824	7612	10127
65°	49554	1263	2730	8191	11329
70°	1561	1309	2870	8812	12991
75°	1397	1397	2396	9249	14373
80°	992	1488	2579	9224	15373
85°	988	1976	2964	9090	15215

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 218460 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.7
10°-20°	24.7	4.2
20°-30°	83.0	14.2
30°-40°	136.3	23.4
40°-50°	152.0	26.1
50°-60°	127.9	21.9
60°-70°	43.4	7.4
70°-80°	8.5	1.5
80°-90°	3.2	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°	111.7	19.2
0°-40°	248.0	42.5
0°-60°	527.9	90.6
0°-90°	583.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	583.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	38	38	38	38	38	
5°	48	44	38	35	34	6
15°	290	83	33	31	32	92
25°	810	212	24	28	30	364
35°	888	321	15	25	29	551
45°	813	232	11	24	30	621
55°	716	54	9	23	30	583
65°	122	3	7	20	28	165
75°	2	2	4	14	22	2
85°	0	1	2	5	8	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°	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
2.5°	41.2	41.2	41.2	41.2	41.2	41.2	40.7	39.1	38.1	36.6	36.1
5°	47.9	47.9	47.9	47.4	47.4	46.4	43.8	40.2	37.6	35.5	35.0
7.5°	61.8	61.3	60.3	59.8	58.2	57.7	48.4	41.2	37.1	34.5	34.0
10°	96.3	95.3	93.8	88.1	82.9	79.3	55.1	41.7	36.1	33.5	33.0
12.5°	173.6	171.5	163.8	152.0	137.5	130.3	65.9	42.2	34.5	32.5	32.5
15°	290.0	287.4	273.0	256.5	230.3	215.8	82.9	41.7	33.0	30.9	31.4
17.5°	418.8	411.6	396.6	375.0	339.5	322.5	108.2	40.7	30.9	29.9	30.9
20°	545.5	543.4	518.7	489.4	445.6	422.9	141.1	39.1	28.8	28.3	29.9
22.5°	693.9	685.1	658.8	627.4	567.1	537.3	176.7	37.1	26.8	26.8	28.8
25°	809.8	799.5	778.9	742.3	685.1	653.2	211.7	34.5	24.2	25.2	27.8
27.5°	874.7	862.8	847.4	815.9	771.6	743.3	246.7	31.4	21.6	23.7	26.8
30°	903.5	900.4	889.1	865.9	825.2	800.0	282.8	27.8	19.1	22.1	26.3
32.5°	906.6	908.1	903.5	888.6	857.7	836.0	309.6	24.7	17.0	21.1	25.2
35°	888.1	893.7	896.8	890.6	870.5	853.0	321.4	21.1	14.9	20.1	24.7
37.5°	859.2	869.5	879.8	881.4	869.0	857.7	318.3	18.0	13.9	19.6	24.7
40°	824.2	833.5	854.6	868.0	863.8	855.6	303.4	14.9	12.9	18.5	24.2
42.5°	808.2	810.3	832.9	855.6	854.6	847.9	277.1	11.8	11.8	18.5	24.2
45°	813.4	804.1	819.0	845.3	843.8	835.0	231.8	9.3	11.3	18.0	24.2
47.5°	791.7	778.9	804.1	835.0	829.3	816.5	191.6	6.7	10.8	17.5	23.7
50°	770.6	768.6	788.1	803.6	795.9	788.6	139.1	5.2	10.3	17.0	23.7
52.5°	772.2	768.6	770.6	770.1	754.6	746.9	95.3	4.1	9.8	16.5	23.7
55°	716.0	704.7	693.9	697.0	698.0	692.8	54.1	3.6	9.3	16.5	23.2
57.5°	520.3	517.2	529.0	562.5	588.8	591.9	26.3	3.6	8.8	16.0	22.7
60°	440.9	438.9	439.4	449.2	463.1	454.3	10.8	3.6	8.2	15.5	22.1
62.5°	303.9	324.0	332.2	354.9	345.6	333.3	4.1	4.1	7.7	14.4	21.6
65°	121.6	121.1	132.4	143.2	140.1	130.8	3.1	3.6	6.7	13.4	20.1
67.5°	28.3	25.8	22.1	19.1	16.0	12.9	3.1	3.6	6.2	12.4	19.1
70°	3.1	3.1	3.1	3.1	3.1	2.6	2.6	3.6	5.7	11.3	17.5
72.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.1	4.6	9.8	16.0
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.6	3.6	8.2	13.9
77.5°	1.5	1.5	1.5	2.1	1.5	2.1	2.1	2.6	3.1	6.7	11.8
80°	1.0	1.0	1.5	1.5	1.5	1.5	1.5	2.1	2.6	5.7	9.3
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	2.1	4.1	6.7
85°	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	1.5	3.1	4.6
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	1.5	2.1
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°	37.6	37.6
2.5°	35.5	35.5
5°	34.5	34.0
7.5°	33.5	33.5
10°	33.0	33.0
12.5°	32.5	33.0
15°	32.5	32.5
17.5°	31.4	31.9
20°	30.9	31.4
22.5°	30.4	30.9
25°	29.9	30.4
27.5°	29.4	29.9
30°	28.8	29.9
32.5°	28.3	29.4
35°	28.3	29.4
37.5°	28.3	29.9
40°	28.3	29.9
42.5°	28.3	29.9
45°	28.3	29.9
47.5°	28.3	29.9
50°	28.3	30.4
52.5°	28.3	30.4
55°	28.3	29.9
57.5°	27.8	29.9
60°	27.8	29.4
62.5°	27.3	28.8
65°	26.3	27.8
67.5°	25.2	27.3
70°	23.7	25.8
72.5°	22.1	23.7
75°	20.1	21.6
77.5°	17.5	18.5
80°	13.9	15.5
82.5°	10.8	11.8
85°	7.2	7.7
87.5°	3.1	3.6
90°	0.0	0.0

(END OF REPORT)