

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: P1309977

Luminaire Tested: P3SQAS05R559040DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309977
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: P3SQAS05R559040DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

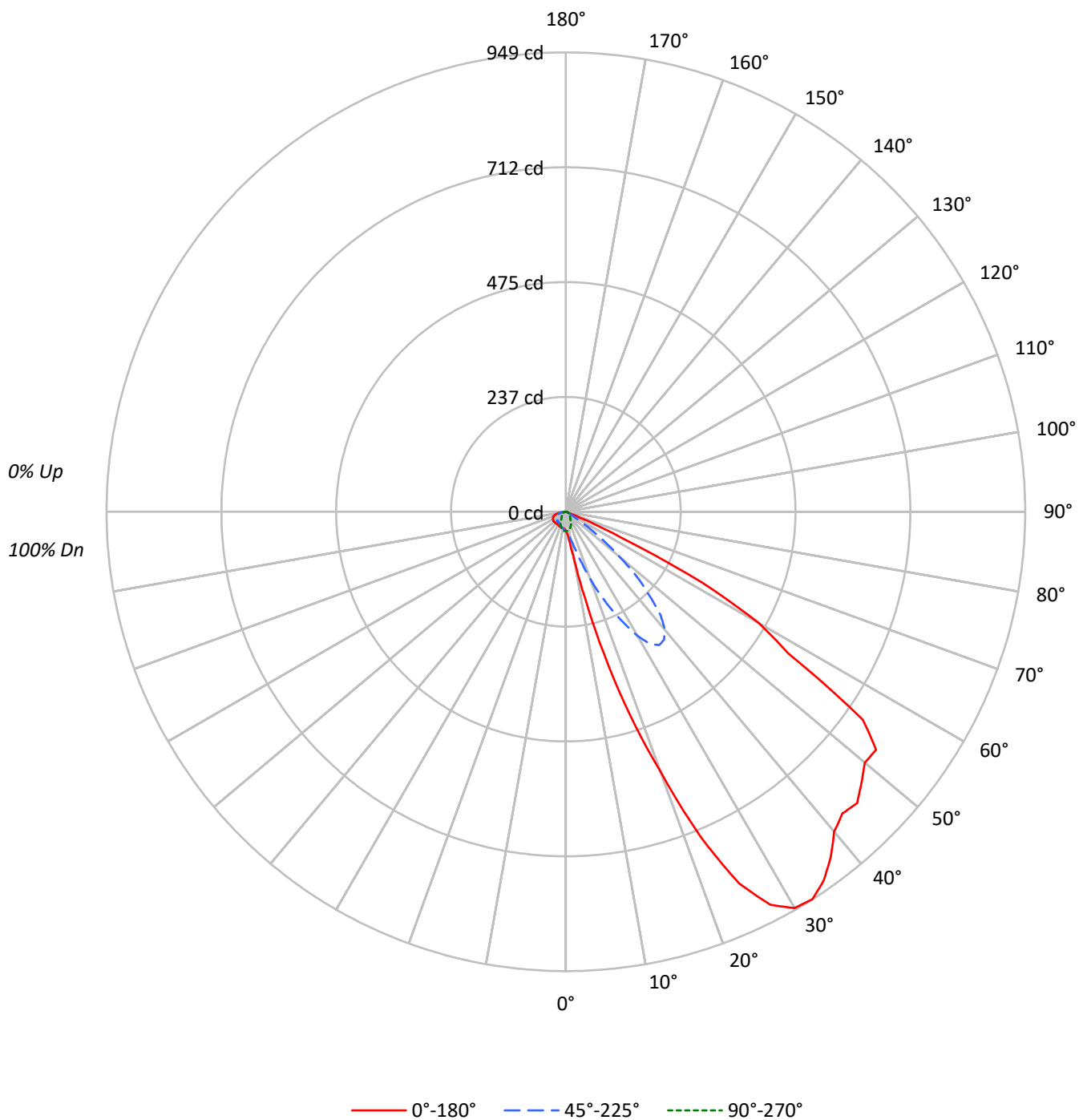
Lumens per Lamp: N/A
Luminaire Lumens: 610.0 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	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
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6768	6768	6768	6768	6768
5°	8661	7918	6794	6345	6155
10°	17628	10091	6593	6033	6033
15°	54096	15476	6151	5866	6062
20°	104614	27070	5535	5737	6030
25°	161010	42091	4808	5530	6043
30°	188008	58844	3957	5469	6224
35°	195360	70705	3280	5445	6455
40°	193885	71381	3035	5688	7037
45°	207269	59063	2898	6162	7623
50°	216033	38984	2894	6645	8520
55°	224956	16995	2913	7296	9398
60°	158927	3892	2962	7991	10574
65°	51836	1304	2853	8558	11859
70°	1611	1360	2971	9215	13545
75°	1464	1464	2529	9715	15038
80°	1091	1587	2678	9620	16067
85°	988	2174	3162	9683	16006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 228560 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.7
10°-20°	25.9	4.2
20°-30°	86.8	14.2
30°-40°	142.6	23.4
40°-50°	159.0	26.1
50°-60°	133.9	21.9
60°-70°	45.4	7.4
70°-80°	8.9	1.5
80°-90°	3.3	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°	116.9	19.2
0°-40°	259.5	42.5
0°-60°	552.4	90.6
0°-90°	610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	610.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	39	39	39	39	39	
5°	50	46	39	37	36	6
15°	303	87	34	33	34	96
25°	847	222	25	29	32	381
35°	929	336	16	26	31	577
45°	851	242	12	25	31	650
55°	749	57	10	24	31	610
65°	127	3	7	21	29	172
75°	2	2	4	15	23	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°	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
2.5°	43.1	43.1	43.1	43.1	43.1	43.1	42.6	41.0	39.9	38.3	37.7
5°	50.1	50.1	50.1	49.6	49.6	48.5	45.8	42.0	39.3	37.2	36.7
7.5°	64.7	64.1	63.1	62.5	60.9	60.4	50.7	43.1	38.8	36.1	35.6
10°	100.8	99.7	98.1	92.2	86.8	83.0	57.7	43.7	37.7	35.0	34.5
12.5°	181.6	179.5	171.4	159.0	143.9	136.4	69.0	44.2	36.1	34.0	34.0
15°	303.4	300.7	285.7	268.4	240.9	225.8	86.8	43.7	34.5	32.3	32.9
17.5°	438.2	430.6	415.0	392.4	355.2	337.4	113.2	42.6	32.3	31.3	32.3
20°	570.8	568.6	542.7	512.0	466.2	442.5	147.7	41.0	30.2	29.6	31.3
22.5°	726.0	716.8	689.3	656.5	593.4	562.1	184.9	38.8	28.0	28.0	30.2
25°	847.3	836.5	814.9	776.7	716.8	683.4	221.5	36.1	25.3	26.4	29.1
27.5°	915.2	902.8	886.6	853.7	807.4	777.7	258.2	32.9	22.6	24.8	28.0
30°	945.4	942.1	930.3	906.0	863.4	837.0	295.9	29.1	19.9	23.2	27.5
32.5°	948.6	950.2	945.4	929.7	897.4	874.8	323.9	25.9	17.8	22.1	26.4
35°	929.2	935.1	938.3	931.9	910.9	892.5	336.3	22.1	15.6	21.0	25.9
37.5°	899.0	909.8	920.6	922.2	909.2	897.4	333.1	18.9	14.6	20.5	25.9
40°	862.4	872.1	894.2	908.2	903.9	895.2	317.5	15.6	13.5	19.4	25.3
42.5°	845.6	847.8	871.5	895.2	894.2	887.1	290.0	12.4	12.4	19.4	25.3
45°	851.0	841.3	857.0	884.5	882.8	873.7	242.5	9.7	11.9	18.9	25.3
47.5°	828.4	814.9	841.3	873.7	867.7	854.3	200.5	7.0	11.3	18.3	24.8
50°	806.3	804.1	824.6	840.8	832.7	825.2	145.5	5.4	10.8	17.8	24.8
52.5°	807.9	804.1	806.3	805.8	789.6	781.5	99.7	4.3	10.2	17.2	24.8
55°	749.2	737.3	726.0	729.2	730.3	724.9	56.6	3.8	9.7	17.2	24.3
57.5°	544.4	541.1	553.5	588.6	616.0	619.3	27.5	3.8	9.2	16.7	23.7
60°	461.4	459.2	459.7	470.0	484.5	475.4	11.3	3.8	8.6	16.2	23.2
62.5°	318.0	339.0	347.6	371.4	361.6	348.7	4.3	4.3	8.1	15.1	22.6
65°	127.2	126.7	138.5	149.8	146.6	136.9	3.2	3.8	7.0	14.0	21.0
67.5°	29.6	26.9	23.2	19.9	16.7	13.5	3.2	3.8	6.5	12.9	19.9
70°	3.2	3.2	3.2	3.2	3.2	2.7	2.7	3.8	5.9	11.9	18.3
72.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.2	4.9	10.2	16.7
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.7	3.8	8.6	14.6
77.5°	1.6	1.6	1.6	2.2	1.6	2.2	2.2	2.7	3.2	7.0	12.4
80°	1.1	1.1	1.6	1.6	1.6	1.6	1.6	2.2	2.7	5.9	9.7
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	2.2	4.3	7.0
85°	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.6	1.6	3.2	4.9
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.6	1.6	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):

	157.5°	180°
0°	39.3	39.3
2.5°	37.2	37.2
5°	36.1	35.6
7.5°	35.0	35.0
10°	34.5	34.5
12.5°	34.0	34.5
15°	34.0	34.0
17.5°	32.9	33.4
20°	32.3	32.9
22.5°	31.8	32.3
25°	31.3	31.8
27.5°	30.7	31.3
30°	30.2	31.3
32.5°	29.6	30.7
35°	29.6	30.7
37.5°	29.6	31.3
40°	29.6	31.3
42.5°	29.6	31.3
45°	29.6	31.3
47.5°	29.6	31.3
50°	29.6	31.8
52.5°	29.6	31.8
55°	29.6	31.3
57.5°	29.1	31.3
60°	29.1	30.7
62.5°	28.6	30.2
65°	27.5	29.1
67.5°	26.4	28.6
70°	24.8	26.9
72.5°	23.2	24.8
75°	21.0	22.6
77.5°	18.3	19.4
80°	14.6	16.2
82.5°	11.3	12.4
85°	7.5	8.1
87.5°	3.2	3.8
90°	0.0	0.0

(END OF REPORT)