

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: P1305675

Luminaire Tested: P3SQASS05R709024DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305675
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: P3SQASS05R709024DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

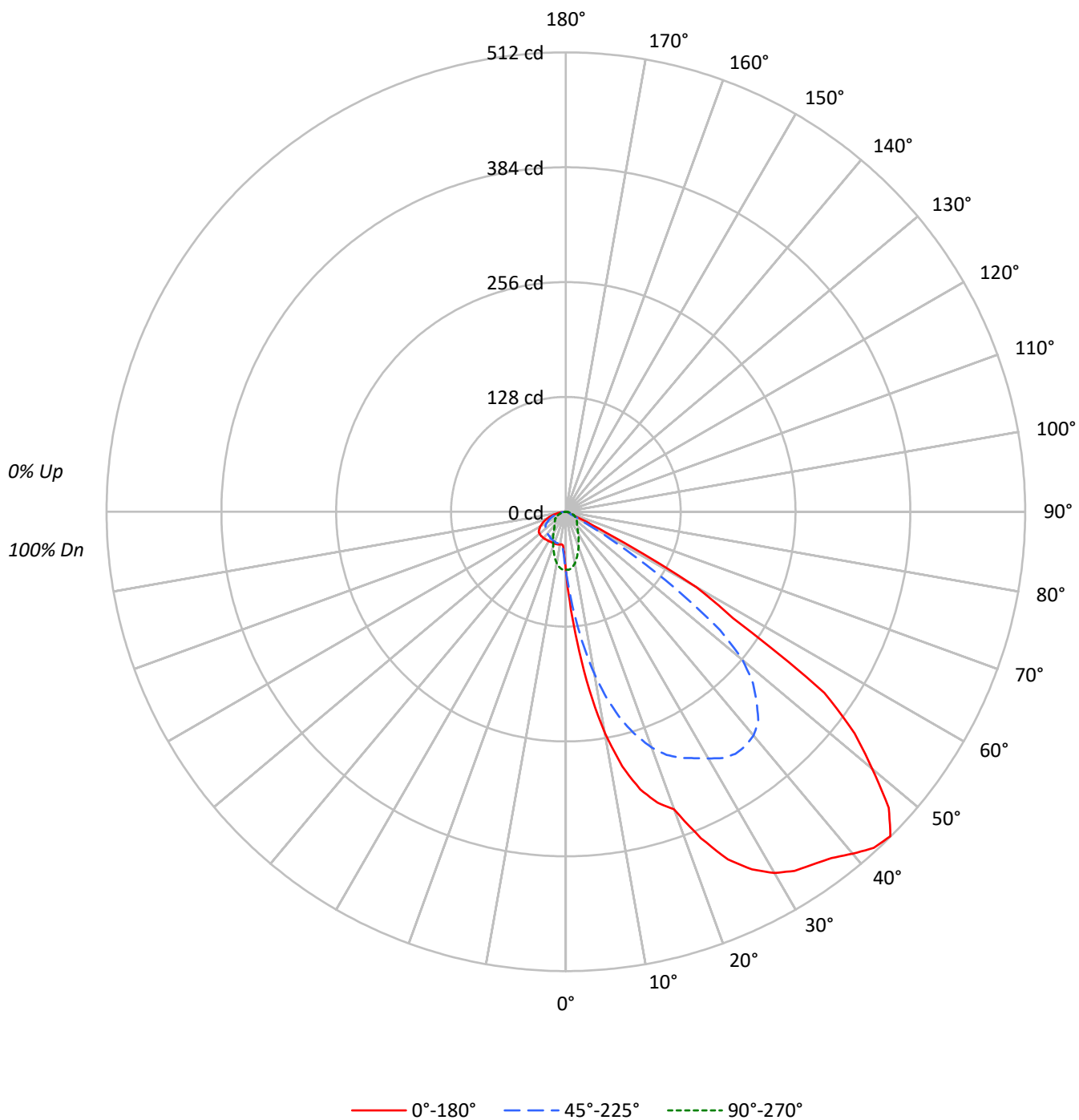
Lumens per Lamp: N/A
Luminaire Lumens: 442.0 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	11091	11091	11091	11091	11091
5°	25241	20210	10978	6933	6483
10°	43720	32073	10178	6331	6471
15°	57091	42845	8879	6454	6686
20°	64660	51244	7606	6543	6946
25°	81198	57483	6366	6613	7126
30°	92433	63140	5429	6761	7537
35°	100876	69255	4731	6854	7968
40°	111826	73157	4362	7149	8633
45°	124581	73263	4287	7526	9353
50°	119336	68885	4260	7904	10155
55°	105662	44619	4384	8347	10990
60°	57867	9576	4409	8508	11401
65°	4116	2323	4320	8436	11492
70°	2014	2216	3978	8006	11078
75°	1730	2329	3793	7652	10247
80°	1785	2182	3471	7042	9620
85°	1778	2569	3557	6126	8695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 124581 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	1.9
10°-20°	35.9	8.1
20°-30°	68.9	15.6
30°-40°	97.5	22.0
40°-50°	110.2	24.9
50°-60°	87.3	19.8
60°-70°	23.5	5.3
70°-80°	7.8	1.8
80°-90°	2.4	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°	113.2	25.6
0°-40°	210.7	47.7
0°-60°	408.3	92.4
0°-90°	442.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	442.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	64	64	64	64	64	
5°	146	117	64	40	38	17
15°	320	240	50	36	38	90
25°	427	302	34	35	38	196
35°	480	329	22	33	38	302
45°	512	301	18	31	38	383
55°	352	149	15	28	37	286
65°	10	6	11	21	28	37
75°	3	4	6	12	15	3
85°	1	1	2	3	4	1
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°	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
2.5°	100.1	100.1	99.7	97.9	97.0	94.8	93.0	88.2	76.3	64.8	55.6
5°	146.0	148.2	145.1	144.6	142.0	138.0	135.4	116.9	88.2	63.5	47.6
7.5°	200.2	201.1	200.2	195.8	191.8	185.2	179.0	149.9	100.1	61.3	41.9
10°	250.0	248.7	246.1	243.0	237.2	230.2	219.6	183.4	111.6	58.2	38.4
12.5°	290.6	290.2	287.1	284.0	276.9	267.7	257.1	213.9	121.3	54.2	36.6
15°	320.2	320.2	317.1	313.5	306.9	299.4	287.5	240.3	129.2	49.8	34.8
17.5°	340.0	339.1	336.9	334.3	329.0	321.5	312.2	261.5	134.5	45.4	34.4
20°	352.8	352.3	350.6	346.6	342.2	336.5	328.1	279.6	136.7	41.5	34.0
22.5°	393.8	390.3	383.7	375.3	364.7	351.0	339.6	293.3	135.8	37.0	33.1
25°	427.3	426.0	418.9	408.8	394.7	377.0	358.1	302.5	131.4	33.5	32.2
27.5°	449.4	447.2	440.5	429.5	414.5	397.3	379.7	309.6	125.2	30.4	30.9
30°	464.8	463.5	456.9	444.5	429.1	410.1	392.0	317.5	116.9	27.3	29.5
32.5°	474.5	473.2	466.6	455.5	440.5	420.7	400.0	325.4	106.7	24.7	28.2
35°	479.8	478.5	471.0	461.3	447.2	427.8	405.7	329.4	94.4	22.5	26.9
37.5°	486.4	483.8	473.6	461.7	447.6	429.5	407.5	329.0	82.0	20.7	26.0
40°	497.4	490.4	475.8	459.9	445.4	427.3	406.1	325.4	68.4	19.4	25.1
42.5°	508.0	497.9	476.3	457.3	441.0	423.3	401.3	317.5	53.4	18.5	24.7
45°	511.5	496.5	470.1	451.1	435.7	417.6	394.7	300.8	36.2	17.6	23.8
47.5°	488.2	477.1	455.1	441.0	426.4	408.8	385.0	283.1	20.7	16.8	22.9
50°	445.4	438.3	426.0	417.2	409.2	396.9	373.5	257.1	12.3	15.9	22.0
52.5°	405.7	403.5	394.7	387.6	383.2	377.5	356.3	217.0	10.1	15.4	21.2
55°	351.9	344.8	342.6	340.0	349.3	348.8	320.2	148.6	9.7	14.6	20.3
57.5°	220.9	224.0	235.5	256.7	281.8	296.3	295.5	79.4	9.3	13.7	19.0
60°	168.0	167.6	171.1	179.9	198.4	219.2	238.6	27.8	8.8	12.8	18.1
62.5°	50.3	51.6	62.2	91.3	109.4	134.9	123.0	6.6	8.4	11.5	16.3
65°	10.1	10.6	10.6	11.9	14.6	22.0	26.9	5.7	7.9	10.6	15.0
67.5°	4.4	4.4	4.4	4.9	4.9	5.7	4.9	5.3	7.1	9.3	13.2
70°	4.0	4.0	4.0	4.0	4.0	4.0	4.4	4.4	6.2	7.9	11.5
72.5°	3.1	3.1	3.1	3.5	3.5	3.5	3.5	4.0	5.3	6.6	9.7
75°	2.6	2.6	2.6	2.6	3.1	3.1	3.1	3.5	4.4	5.7	7.9
77.5°	2.2	2.2	2.2	2.2	2.2	2.6	2.6	2.6	3.5	4.4	6.6
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.2	2.6	3.5	4.9
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8	2.2	2.6	3.5
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.8	2.2
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9	1.3
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°	64.4	64.4	64.4
2.5°	48.9	46.3	45.0
5°	40.1	37.9	37.5
7.5°	37.0	36.6	36.6
10°	36.2	36.6	37.0
12.5°	36.2	37.0	37.5
15°	36.2	37.0	37.5
17.5°	36.2	37.0	37.5
20°	35.7	37.0	37.9
22.5°	35.3	37.0	37.5
25°	34.8	37.0	37.5
27.5°	34.4	36.6	37.5
30°	34.0	36.6	37.9
32.5°	33.1	36.6	37.9
35°	32.6	36.6	37.9
37.5°	32.2	36.6	38.4
40°	31.8	36.6	38.4
42.5°	31.3	36.6	38.4
45°	30.9	36.2	38.4
47.5°	30.0	36.2	38.4
50°	29.5	35.7	37.9
52.5°	28.7	35.3	37.9
55°	27.8	34.4	36.6
57.5°	26.5	33.1	34.8
60°	24.7	31.3	33.1
62.5°	22.5	29.1	30.4
65°	20.7	26.5	28.2
67.5°	18.1	23.4	25.1
70°	15.9	20.3	22.0
72.5°	13.7	17.2	19.0
75°	11.5	14.1	15.4
77.5°	8.8	11.5	12.3
80°	7.1	8.8	9.7
82.5°	4.9	6.2	6.6
85°	3.1	4.0	4.4
87.5°	1.3	1.8	1.8
90°	0.0	0.0	0.0

(END OF REPORT)