

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: P1307088

Luminaire Tested: P3SQAS17R459027DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R459027DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

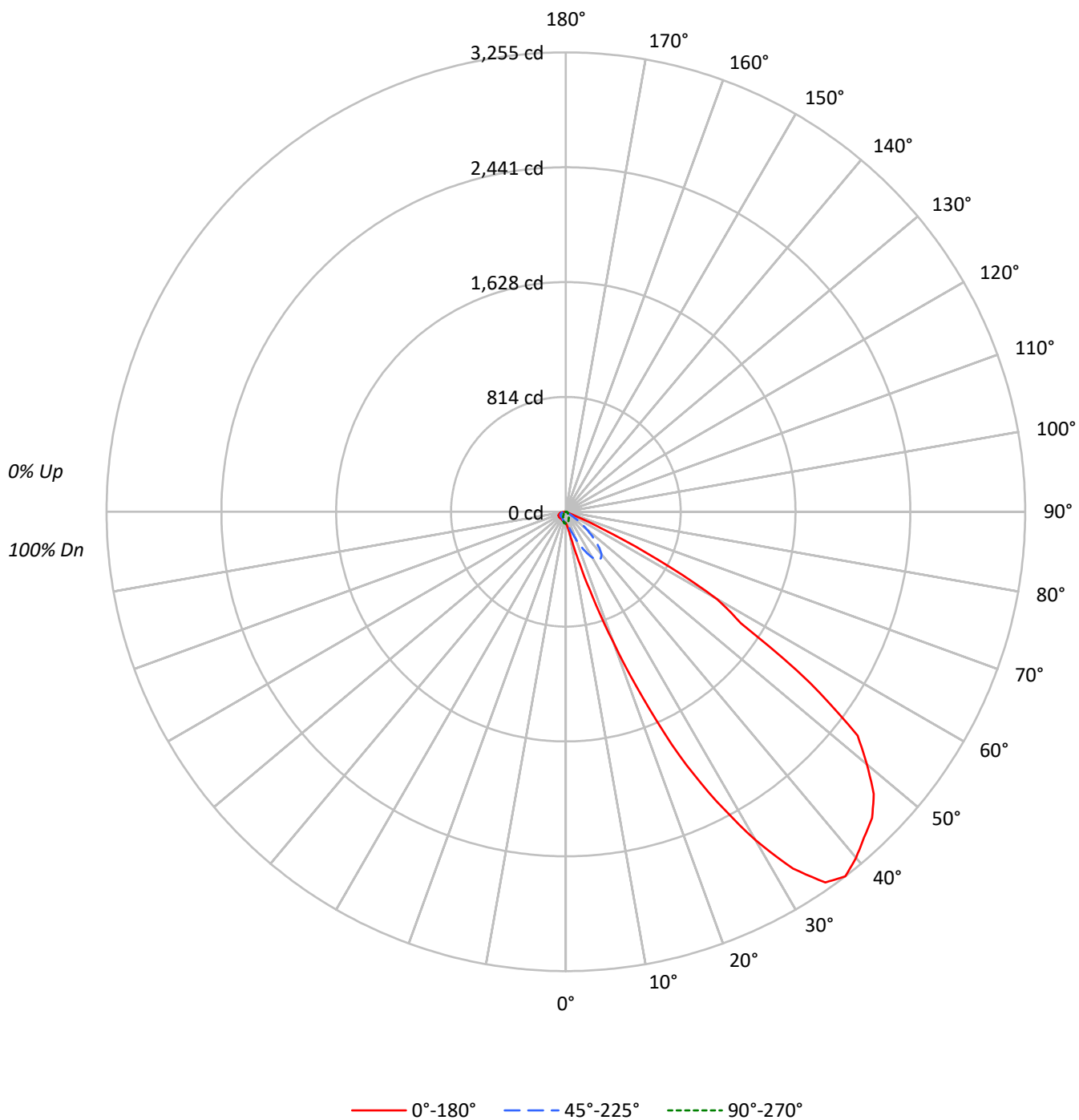
Lumens per Lamp: N/A
Luminaire Lumens: 1454.0 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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	96	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	66	77	70	65	74	69	64	71	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14484	14484	14484	14484	14484
5°	17236	15991	14332	13295	13295
10°	27526	18695	13448	12609	12609
15°	68538	25069	12213	11785	12213
20°	180563	37425	10575	11235	11895
25°	362533	55469	9140	10508	11649
30°	534451	74296	7398	10281	11952
35°	674151	87147	6307	10113	12383
40°	719269	88062	5665	10544	13242
45°	747338	73458	5261	11423	14346
50°	746161	51175	5144	12244	16103
55°	634181	22730	5405	13722	17685
60°	426217	4547	5373	15328	20288
65°	113085	1956	5379	16627	23025
70°	3021	2417	5438	18128	26033
75°	2396	2396	5590	19164	29611
80°	2380	3570	5951	20233	33324
85°	2371	4742	9485	21341	33197

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 766575 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.6
10°-20°	41.0	2.8
20°-30°	169.2	11.6
30°-40°	356.5	24.5
40°-50°	439.8	30.2
50°-60°	329.7	22.7
60°-70°	84.8	5.8
70°-80°	17.6	1.2
80°-90°	7.1	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°	218.5	15.0
0°-40°	575.0	39.5
0°-60°	1344.5	92.5
0°-90°	1454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1454.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	84	84	84	84	84	
5°	100	92	83	77	77	11
15°	384	141	68	66	68	141
25°	1908	292	48	55	61	889
35°	3206	414	30	48	59	1954
45°	3068	302	22	47	59	2348
55°	2112	76	18	46	59	1824
65°	278	5	13	41	56	400
75°	4	4	8	29	44	4
85°	1	2	5	11	17	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°	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
2.5°	88.9	88.9	88.9	88.9	88.9	88.9	88.9	87.7	86.5	84.1	81.7
5°	99.7	98.5	98.5	98.5	97.3	96.1	96.1	92.5	87.7	82.9	79.3
7.5°	117.7	117.7	116.5	114.1	112.9	110.5	108.1	98.5	87.7	80.5	75.7
10°	157.4	155.0	151.4	149.0	143.0	134.6	128.6	106.9	86.5	76.9	73.3
12.5°	235.5	240.3	228.3	216.3	199.4	183.8	164.6	121.3	86.5	73.3	69.7
15°	384.4	392.9	370.0	346.0	305.2	266.7	230.7	140.6	84.1	68.5	64.9
17.5°	628.3	639.1	600.7	544.2	480.6	403.7	337.6	167.0	81.7	63.7	61.3
20°	985.2	984.0	909.5	838.6	716.0	603.1	479.4	204.2	78.1	57.7	57.7
22.5°	1423.7	1428.5	1337.2	1209.8	1035.6	854.2	657.2	247.5	73.3	52.9	54.1
25°	1907.8	1867.0	1758.9	1603.9	1381.6	1130.5	871.0	291.9	68.5	48.1	50.5
27.5°	2311.5	2271.9	2148.1	1964.3	1725.2	1427.3	1088.5	336.4	62.5	43.3	46.9
30°	2687.5	2637.1	2488.1	2280.3	1995.5	1673.6	1292.7	373.6	55.3	37.2	43.3
32.5°	2997.5	2951.9	2782.5	2541.0	2231.0	1885.0	1465.7	402.5	48.1	33.6	40.8
35°	3206.5	3159.7	3003.5	2738.0	2400.4	2038.8	1606.3	414.5	42.0	30.0	39.6
37.5°	3254.6	3229.4	3117.6	2869.0	2516.9	2137.3	1696.4	410.9	34.8	27.6	37.2
40°	3199.3	3205.3	3152.5	2945.8	2579.4	2179.3	1733.6	391.7	28.8	25.2	36.0
42.5°	3128.5	3144.1	3140.5	2977.1	2605.8	2181.8	1718.0	353.2	22.8	22.8	34.8
45°	3068.4	3084.0	3105.6	2963.9	2587.8	2150.5	1668.8	301.6	16.8	21.6	34.8
47.5°	2959.1	2975.9	3007.1	2858.1	2496.5	2070.0	1579.8	245.1	12.0	20.4	33.6
50°	2784.9	2793.3	2784.9	2617.9	2321.1	1940.3	1435.7	191.0	8.4	19.2	33.6
52.5°	2605.8	2589.0	2519.3	2307.9	2042.4	1734.8	1254.3	135.8	6.0	18.0	32.4
55°	2112.1	2085.6	2034.0	1904.2	1752.8	1482.5	1014.0	75.7	6.0	18.0	31.2
57.5°	1471.7	1486.1	1504.2	1477.7	1408.0	1167.8	770.1	33.6	6.0	16.8	31.2
60°	1237.4	1225.4	1226.6	1209.8	1094.5	851.8	529.8	13.2	6.0	15.6	30.0
62.5°	738.9	747.3	762.9	766.5	652.4	475.8	277.5	6.0	6.0	14.4	28.8
65°	277.5	290.7	254.7	221.1	175.4	128.6	64.9	4.8	7.2	13.2	26.4
67.5°	8.4	9.6	12.0	10.8	10.8	9.6	7.2	4.8	7.2	12.0	25.2
70°	6.0	6.0	6.0	6.0	6.0	4.8	4.8	4.8	6.0	10.8	22.8
72.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.0	9.6	20.4
75°	3.6	4.8	3.6	3.6	3.6	3.6	3.6	3.6	6.0	8.4	16.8
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8	7.2	14.4
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	4.8	6.0	12.0
82.5°	2.4	2.4	2.4	1.2	2.4	2.4	2.4	2.4	4.8	4.8	9.6
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	3.6	4.8	6.0
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	2.4	3.6	3.6	3.6
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°	84.1	84.1	84.1
2.5°	79.3	79.3	79.3
5°	76.9	76.9	76.9
7.5°	74.5	74.5	74.5
10°	72.1	72.1	72.1
12.5°	69.7	69.7	70.9
15°	66.1	68.5	68.5
17.5°	63.7	66.1	67.3
20°	61.3	63.7	64.9
22.5°	57.7	61.3	63.7
25°	55.3	60.1	61.3
27.5°	52.9	58.9	61.3
30°	51.7	57.7	60.1
32.5°	49.3	56.5	58.9
35°	48.1	56.5	58.9
37.5°	48.1	55.3	58.9
40°	46.9	55.3	58.9
42.5°	46.9	55.3	58.9
45°	46.9	55.3	58.9
47.5°	45.7	55.3	60.1
50°	45.7	56.5	60.1
52.5°	45.7	56.5	60.1
55°	45.7	56.5	58.9
57.5°	44.5	55.3	58.9
60°	44.5	55.3	58.9
62.5°	42.0	54.1	57.7
65°	40.8	52.9	56.5
67.5°	38.4	51.7	54.1
70°	36.0	48.1	51.7
72.5°	32.4	45.7	49.3
75°	28.8	42.0	44.5
77.5°	25.2	37.2	39.6
80°	20.4	31.2	33.6
82.5°	15.6	24.0	25.2
85°	10.8	15.6	16.8
87.5°	4.8	7.2	8.4
90°	0.0	0.0	0.0

(END OF REPORT)