

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: P1309479

Luminaire Tested: P3SQAS20R509035D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309479
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: P3SQAS20R509035D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

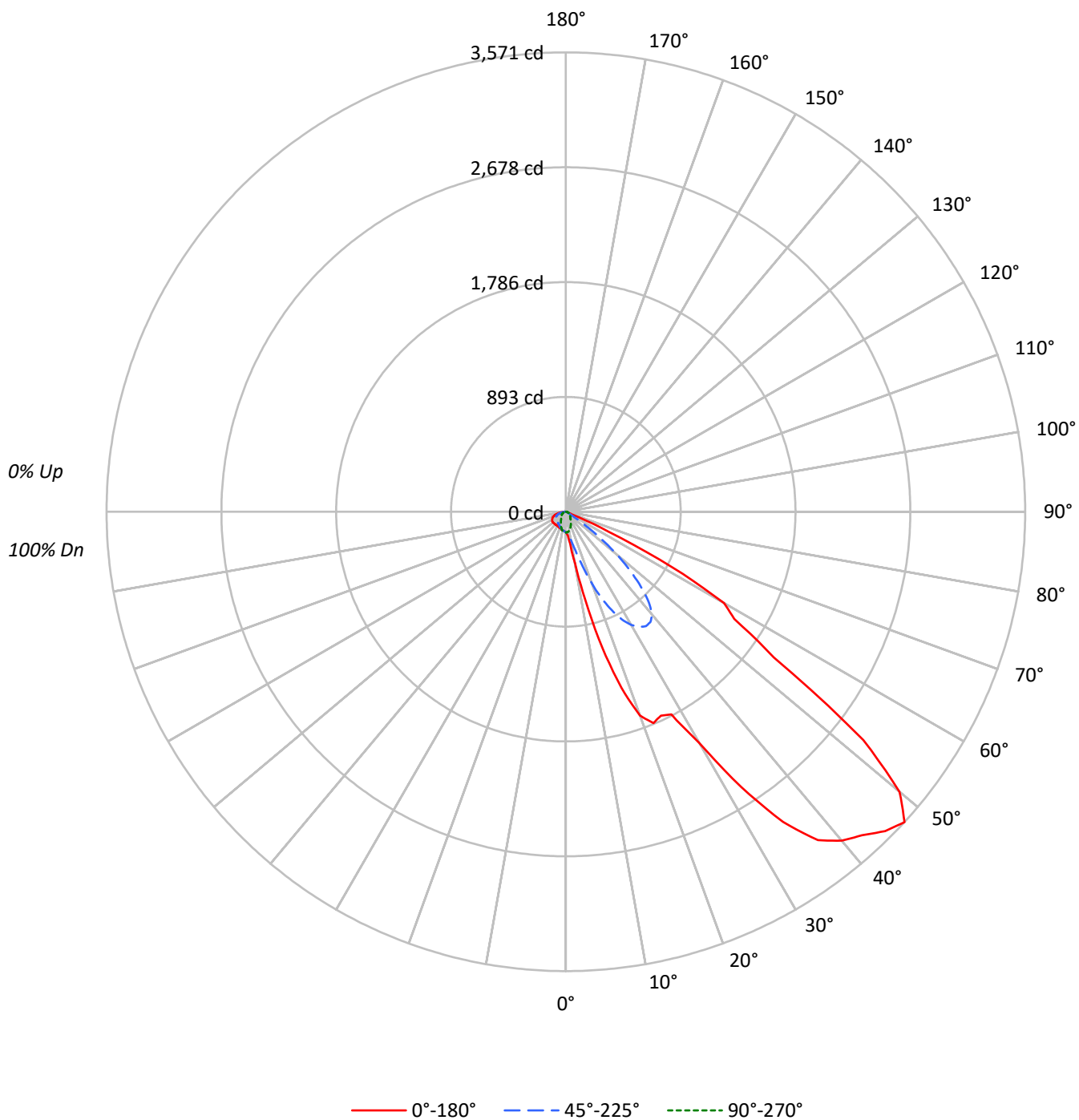
Lumens per Lamp: N/A
Luminaire Lumens: 2014.0 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	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°	27556	27556	27556	27556	27556
5°	32778	30669	27367	26157	25863
10°	70581	38019	26162	25253	25550
15°	195397	62351	23571	24195	25122
20°	308929	109360	20399	23276	24541
25°	332224	160649	17520	22480	24798
30°	412368	201689	15213	22134	25594
35°	618835	228221	13161	22307	27059
40°	750496	234645	11736	23067	28552
45°	855016	201253	11447	24575	31346
50°	907455	138895	11655	26579	34965
55°	592835	55879	11500	28735	38644
60°	488940	9576	11401	31172	42539
65°	147438	4972	10636	33335	46783
70°	6143	5237	10524	34140	50808
75°	5789	5789	10447	34735	55562
80°	5157	5157	10315	34514	56929
85°	3359	6916	13832	34383	54934

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 910402 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.7	0.8
10°-20°	95.4	4.7
20°-30°	245.2	12.2
30°-40°	440.4	21.9
40°-50°	588.2	29.2
50°-60°	448.0	22.2
60°-70°	136.0	6.8
70°-80°	32.5	1.6
80°-90°	11.7	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°	357.2	17.7
0°-40°	797.6	39.6
0°-60°	1833.8	91.1
0°-90°	2014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2014.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	160	160	160	160	160	
5°	190	177	158	151	150	24
15°	1096	350	132	136	141	323
25°	1748	845	92	118	130	834
35°	2943	1086	63	106	129	1807
45°	3510	826	47	101	129	2684
55°	1974	186	38	96	129	1964
65°	362	12	26	82	115	501
75°	9	9	16	52	84	9
85°	2	4	7	17	28	3
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°	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0
2.5°	170.5	170.5	170.5	170.5	170.5	170.5	168.7	168.7	168.7	165.3	161.8
5°	189.6	191.4	189.6	189.6	186.1	186.1	182.7	182.7	177.4	167.0	158.3
7.5°	248.8	247.0	245.3	238.3	233.1	220.9	215.7	207.0	191.4	167.0	154.8
10°	403.6	393.1	386.2	370.5	337.5	316.6	288.8	260.9	217.4	167.0	149.6
12.5°	701.0	699.3	678.4	626.2	579.3	514.9	447.1	379.2	267.9	163.5	142.6
15°	1095.9	1080.3	1050.7	989.8	906.3	805.4	683.7	563.6	349.7	158.3	132.2
17.5°	1433.4	1414.3	1391.7	1330.8	1235.1	1108.1	962.0	796.7	461.0	151.3	121.8
20°	1685.6	1673.5	1654.3	1605.6	1515.2	1400.4	1236.8	1036.8	596.7	142.6	111.3
22.5°	1777.8	1776.1	1779.6	1762.2	1717.0	1626.5	1469.9	1261.2	730.6	132.2	100.9
25°	1748.3	1746.5	1769.1	1791.8	1802.2	1765.7	1645.6	1442.1	845.4	123.5	92.2
27.5°	1776.1	1770.9	1760.4	1763.9	1793.5	1814.4	1758.7	1581.3	944.6	111.3	83.5
30°	2073.6	2044.0	1997.0	1917.0	1857.9	1852.6	1828.3	1690.9	1014.2	99.2	76.5
32.5°	2538.0	2501.5	2416.3	2268.4	2127.5	2019.6	1943.1	1783.1	1062.9	87.0	67.8
35°	2943.4	2917.3	2818.1	2672.0	2470.2	2268.4	2129.2	1918.7	1085.5	76.5	62.6
37.5°	3218.2	3207.8	3110.4	2953.8	2748.5	2510.2	2325.8	2057.9	1080.3	64.4	57.4
40°	3338.2	3306.9	3225.2	3093.0	2885.9	2672.0	2477.1	2146.6	1043.7	52.2	52.2
42.5°	3409.6	3374.8	3286.0	3160.8	2957.3	2729.4	2494.5	2108.4	956.8	41.7	50.4
45°	3510.5	3473.9	3357.4	3223.4	3018.2	2753.7	2426.7	1972.7	826.3	31.3	47.0
47.5°	3571.3	3547.0	3460.0	3326.1	3077.3	2718.9	2270.1	1845.7	681.9	24.4	45.2
50°	3386.9	3362.6	3298.2	3206.0	3039.0	2602.4	2132.7	1640.4	518.4	19.1	43.5
52.5°	2915.5	2936.4	2948.6	2974.7	2852.9	2341.5	1927.4	1476.9	349.7	15.7	40.0
55°	1974.4	2005.7	2040.5	2144.9	2287.5	2084.0	1711.7	1276.8	186.1	15.7	38.3
57.5°	1551.7	1541.3	1530.8	1523.9	1635.2	1718.7	1504.7	1021.1	80.0	15.7	34.8
60°	1419.5	1388.2	1367.3	1372.5	1428.2	1395.1	1191.6	666.3	27.8	15.7	33.1
62.5°	930.7	955.0	1002.0	1082.0	1043.7	895.9	692.3	264.4	13.9	15.7	29.6
65°	361.8	349.7	361.8	384.4	332.3	247.0	154.8	47.0	12.2	13.9	26.1
67.5°	48.7	43.5	33.1	20.9	19.1	17.4	13.9	12.2	12.2	13.9	24.4
70°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	10.4	10.4	12.2	20.9
72.5°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	12.2	17.4
75°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	10.4	15.7
77.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.7	12.2
80°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	7.0	10.4
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	5.2	5.2	7.0	8.7
85°	1.7	3.5	1.7	3.5	3.5	3.5	3.5	3.5	3.5	5.2	7.0
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	5.2	5.2
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°	160.0	160.0	160.0	160.0
2.5°	158.3	154.8	154.8	154.8
5°	154.8	151.3	151.3	149.6
7.5°	149.6	147.9	147.9	147.9
10°	146.1	144.4	146.1	146.1
12.5°	139.2	140.9	142.6	142.6
15°	132.2	135.7	139.2	140.9
17.5°	125.2	132.2	135.7	137.4
20°	118.3	127.0	132.2	133.9
22.5°	113.1	121.8	128.7	132.2
25°	106.1	118.3	127.0	130.5
27.5°	99.2	113.1	123.5	128.7
30°	93.9	111.3	123.5	128.7
32.5°	88.7	107.9	121.8	127.0
35°	85.2	106.1	121.8	128.7
37.5°	81.8	104.4	121.8	127.0
40°	80.0	102.6	121.8	127.0
42.5°	78.3	102.6	121.8	128.7
45°	74.8	100.9	121.8	128.7
47.5°	73.1	100.9	121.8	128.7
50°	71.3	99.2	121.8	130.5
52.5°	69.6	97.4	121.8	130.5
55°	66.1	95.7	120.0	128.7
57.5°	64.4	93.9	118.3	125.2
60°	60.9	90.5	114.8	123.5
62.5°	57.4	87.0	111.3	118.3
65°	52.2	81.8	106.1	114.8
67.5°	47.0	74.8	100.9	109.6
70°	41.7	67.8	93.9	100.9
72.5°	36.5	60.9	87.0	92.2
75°	31.3	52.2	76.5	83.5
77.5°	26.1	45.2	64.4	69.6
80°	19.1	34.8	52.2	57.4
82.5°	15.7	26.1	38.3	41.7
85°	10.4	17.4	24.4	27.8
87.5°	5.2	8.7	12.2	13.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)