

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: P1308362

Luminaire Tested: P3SQAS20R509030D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308362
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: P3SQAS20R509030D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

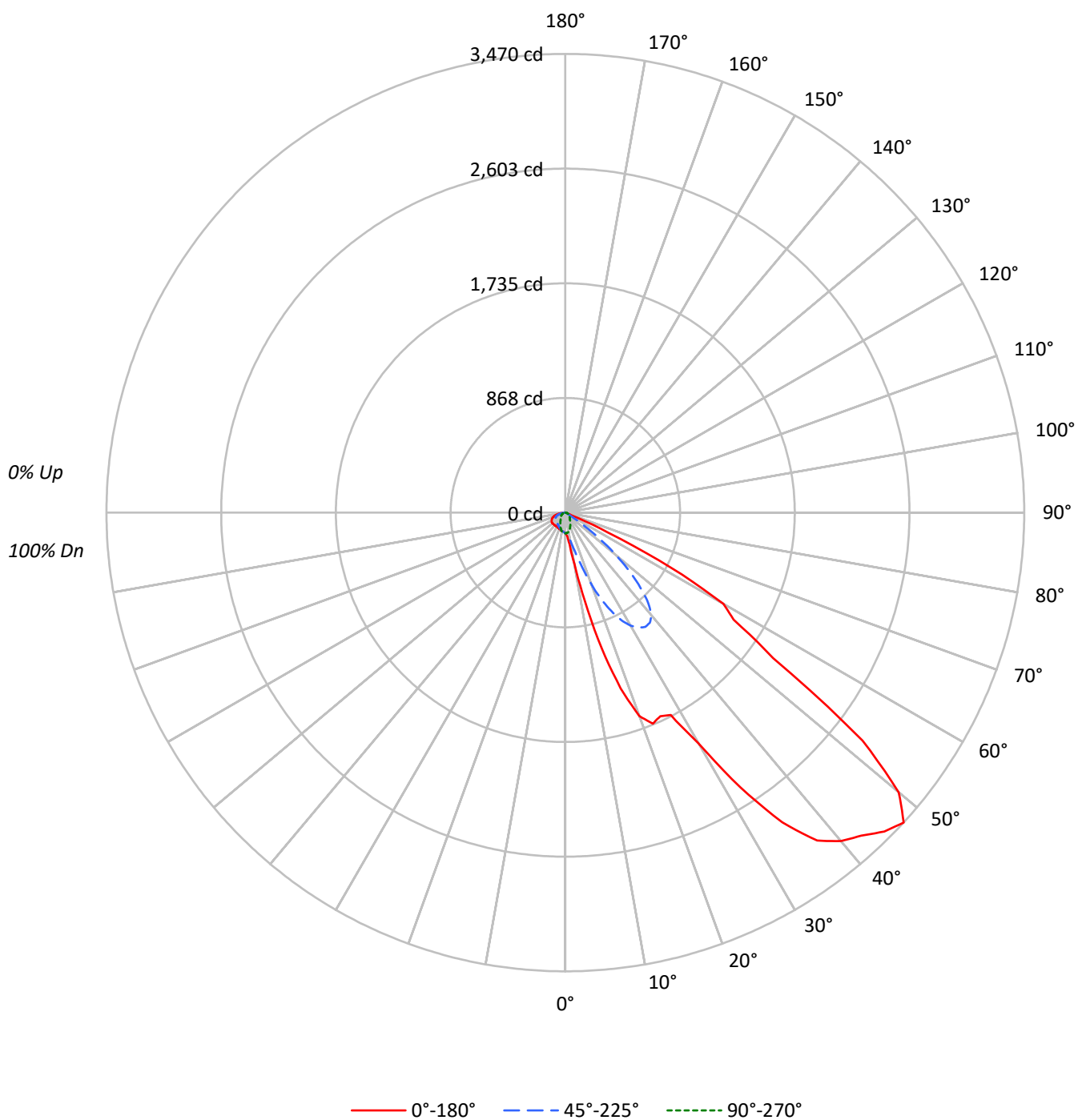
Lumens per Lamp: N/A
Luminaire Lumens: 1957.0 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	26781	26781	26781	26781	26781
5°	31845	29805	26589	25431	25137
10°	68588	36952	25427	24536	24833
15°	189870	60586	22911	23500	24409
20°	300187	106263	19830	22616	23862
25°	322817	156107	17026	21834	24095
30°	400694	195982	14796	21517	24878
35°	601322	221766	12804	21676	26302
40°	729273	228013	11398	22415	27743
45°	830806	195554	11106	23869	30469
50°	881787	134957	11333	25802	33974
55°	576051	54317	11170	27924	37563
60°	475093	9300	11057	30277	41333
65°	143282	4809	10351	32357	45479
70°	5942	5086	10222	33184	49347
75°	5656	5656	10114	33737	53965
80°	5058	5058	10017	33523	55342
85°	3359	6719	13437	33395	53353

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 884655 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.2	0.8
10°-20°	92.7	4.7
20°-30°	238.2	12.2
30°-40°	427.9	21.9
40°-50°	571.6	29.2
50°-60°	435.3	22.2
60°-70°	132.1	6.8
70°-80°	31.6	1.6
80°-90°	11.4	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°	347.1	17.7
0°-40°	775.0	39.6
0°-60°	1781.9	91.1
0°-90°	1957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1957.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	156	156	156	156	156	
5°	184	172	154	147	145	24
15°	1065	340	128	132	137	313
25°	1699	822	90	115	127	811
35°	2860	1055	61	103	125	1756
45°	3411	803	46	98	125	2608
55°	1918	181	37	93	125	1909
65°	352	12	25	79	112	486
75°	8	8	15	51	81	9
85°	2	3	7	17	27	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°	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5
2.5°	165.7	165.7	165.7	165.7	165.7	165.7	164.0	164.0	164.0	160.6	157.2
5°	184.2	185.9	184.2	184.2	180.9	180.9	177.5	177.5	172.4	162.3	153.8
7.5°	241.7	240.0	238.3	231.6	226.5	214.7	209.6	201.2	185.9	162.3	150.4
10°	392.2	382.0	375.3	360.0	327.9	307.6	280.6	253.6	211.3	162.3	145.4
12.5°	681.2	679.5	659.2	608.5	562.9	500.3	434.4	368.5	260.3	158.9	138.6
15°	1064.9	1049.7	1021.0	961.8	880.7	782.6	664.3	547.7	339.8	153.8	128.5
17.5°	1392.8	1374.2	1352.3	1293.1	1200.1	1076.7	934.8	774.2	447.9	147.1	118.3
20°	1637.9	1626.1	1607.5	1560.2	1472.3	1360.7	1201.8	1007.4	579.8	138.6	108.2
22.5°	1727.5	1725.8	1729.2	1712.3	1668.4	1580.5	1428.3	1225.5	709.9	128.5	98.0
25°	1698.8	1697.1	1719.1	1741.0	1751.2	1715.7	1599.1	1401.3	821.5	120.0	89.6
27.5°	1725.8	1720.8	1710.6	1714.0	1742.7	1763.0	1708.9	1536.5	917.9	108.2	81.1
30°	2014.9	1986.1	1940.5	1862.8	1805.3	1800.2	1776.5	1643.0	985.5	96.3	74.4
32.5°	2466.2	2430.7	2347.9	2204.2	2067.3	1962.5	1888.1	1732.6	1032.8	84.5	65.9
35°	2860.1	2834.7	2738.3	2596.4	2400.3	2204.2	2069.0	1864.4	1054.8	74.4	60.9
37.5°	3127.1	3117.0	3022.3	2870.2	2670.7	2439.2	2260.0	1999.7	1049.7	62.5	55.8
40°	3243.8	3213.3	3133.9	3005.4	2804.3	2596.4	2407.0	2085.9	1014.2	50.7	50.7
42.5°	3313.1	3279.3	3193.0	3071.3	2873.6	2652.1	2423.9	2048.7	929.7	40.6	49.0
45°	3411.1	3375.6	3262.4	3132.2	2932.7	2675.8	2358.0	1916.8	802.9	30.4	45.6
47.5°	3470.3	3446.6	3362.1	3231.9	2990.2	2642.0	2205.9	1793.4	662.6	23.7	43.9
50°	3291.1	3267.4	3204.9	3115.3	2953.0	2528.7	2072.4	1594.0	503.7	18.6	42.3
52.5°	2833.0	2853.3	2865.1	2890.5	2772.2	2275.2	1872.9	1435.1	339.8	15.2	38.9
55°	1918.5	1949.0	1982.8	2084.2	2222.8	2025.0	1663.3	1240.7	180.9	15.2	37.2
57.5°	1507.8	1497.6	1487.5	1480.7	1588.9	1670.1	1462.1	992.2	77.8	15.2	33.8
60°	1379.3	1348.9	1328.6	1333.7	1387.8	1355.7	1157.9	647.4	27.0	15.2	32.1
62.5°	904.3	928.0	973.6	1051.4	1014.2	870.5	672.8	256.9	13.5	15.2	28.7
65°	351.6	339.8	351.6	373.6	322.9	240.0	150.4	45.6	11.8	13.5	25.4
67.5°	47.3	42.3	32.1	20.3	18.6	16.9	13.5	11.8	11.8	13.5	23.7
70°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	10.1	10.1	11.8	20.3
72.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	11.8	16.9
75°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	10.1	15.2
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	8.5	11.8
80°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.8	10.1
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.1	5.1	6.8	8.5
85°	1.7	3.4	1.7	3.4	3.4	3.4	3.4	3.4	3.4	5.1	6.8
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	5.1	5.1
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):

	112.5°	135°	157.5°	180°
0°	155.5	155.5	155.5	155.5
2.5°	153.8	150.4	150.4	150.4
5°	150.4	147.1	147.1	145.4
7.5°	145.4	143.7	143.7	143.7
10°	142.0	140.3	142.0	142.0
12.5°	135.2	136.9	138.6	138.6
15°	128.5	131.8	135.2	136.9
17.5°	121.7	128.5	131.8	133.5
20°	114.9	123.4	128.5	130.2
22.5°	109.9	118.3	125.1	128.5
25°	103.1	114.9	123.4	126.8
27.5°	96.3	109.9	120.0	125.1
30°	91.3	108.2	120.0	125.1
32.5°	86.2	104.8	118.3	123.4
35°	82.8	103.1	118.3	125.1
37.5°	79.4	101.4	118.3	123.4
40°	77.8	99.7	118.3	123.4
42.5°	76.1	99.7	118.3	125.1
45°	72.7	98.0	118.3	125.1
47.5°	71.0	98.0	118.3	125.1
50°	69.3	96.3	118.3	126.8
52.5°	67.6	94.7	118.3	126.8
55°	64.2	93.0	116.6	125.1
57.5°	62.5	91.3	114.9	121.7
60°	59.2	87.9	111.6	120.0
62.5°	55.8	84.5	108.2	114.9
65°	50.7	79.4	103.1	111.6
67.5°	45.6	72.7	98.0	106.5
70°	40.6	65.9	91.3	98.0
72.5°	35.5	59.2	84.5	89.6
75°	30.4	50.7	74.4	81.1
77.5°	25.4	43.9	62.5	67.6
80°	18.6	33.8	50.7	55.8
82.5°	15.2	25.4	37.2	40.6
85°	10.1	16.9	23.7	27.0
87.5°	5.1	8.5	11.8	13.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)