

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: P1310598

Luminaire Tested: P3SQAS20R509040D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310598
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: P3SQAS20R509040D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

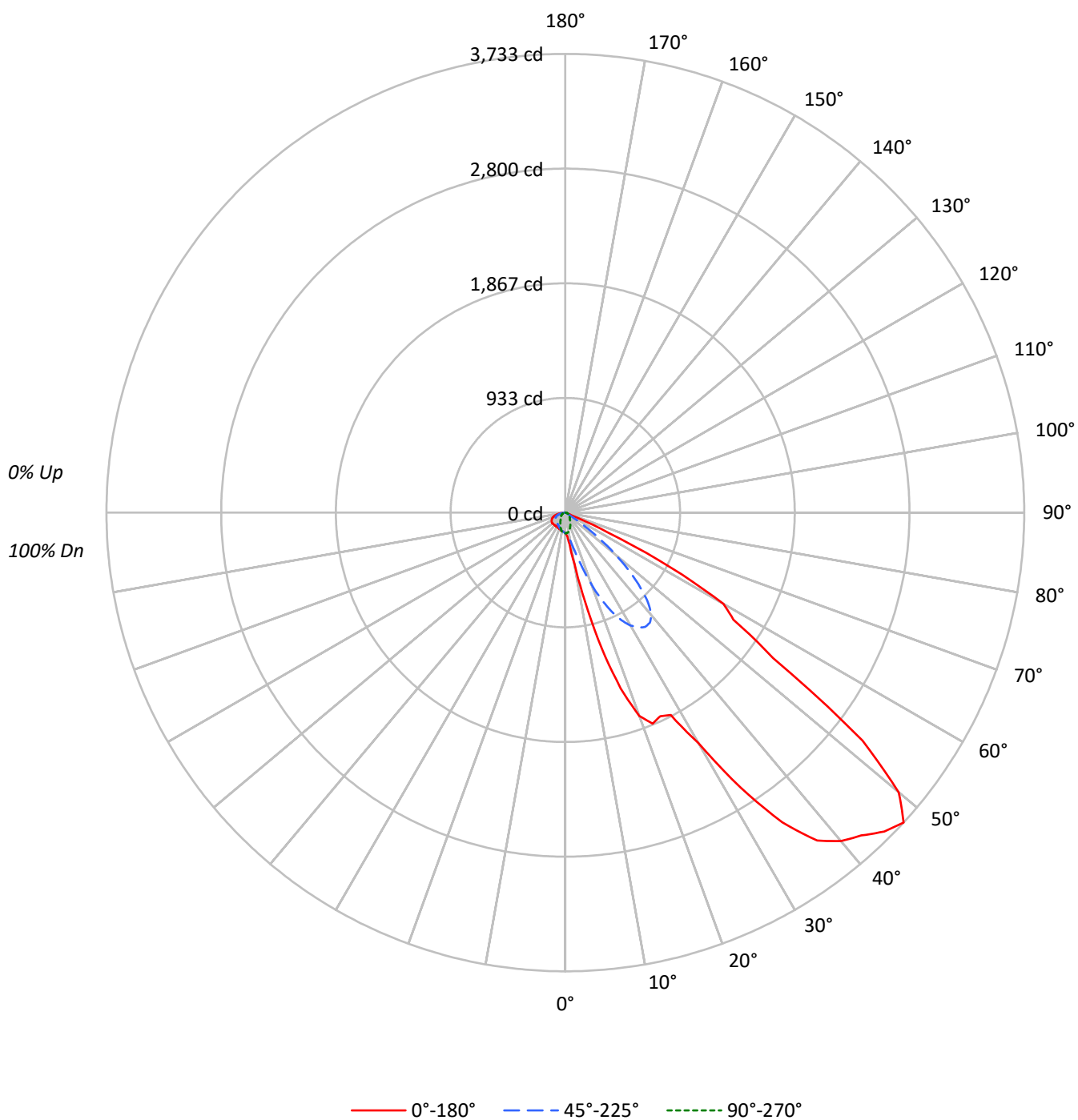
Lumens per Lamp: N/A
Luminaire Lumens: 2105.0 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	28813	28813	28813	28813	28813
5°	34265	32069	28612	27350	27039
10°	73764	39750	27351	26389	26704
15°	204223	65168	24641	25283	26263
20°	322895	114291	21333	24321	25659
25°	347236	167908	18319	23487	25920
30°	431001	210798	15909	23148	26747
35°	646777	238523	13771	23316	28278
40°	784422	245257	12253	24123	29834
45°	893645	210338	11959	25696	32759
50°	948475	145165	12191	27758	36546
55°	619619	58401	12010	30026	40385
60°	511019	10023	11883	32550	44468
65°	154122	5175	11125	34842	48902
70°	6395	5489	10977	35701	53124
75°	6055	6055	10913	36265	58091
80°	5455	5455	10811	36101	59507
85°	3557	7114	14425	35964	57503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 951546 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.4	0.8
10°-20°	99.7	4.7
20°-30°	256.2	12.2
30°-40°	460.3	21.9
40°-50°	614.8	29.2
50°-60°	468.3	22.2
60°-70°	142.1	6.8
70°-80°	34.0	1.6
80°-90°	12.3	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°	373.3	17.7
0°-40°	833.6	39.6
0°-60°	1916.7	91.1
0°-90°	2105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2105.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	167	167	167	167	167	
5°	198	186	166	158	156	25
15°	1145	366	138	142	147	337
25°	1827	884	96	124	136	872
35°	3076	1134	66	111	134	1889
45°	3669	864	49	106	134	2805
55°	2064	194	40	100	134	2053
65°	378	13	27	86	120	523
75°	9	9	16	54	87	10
85°	2	4	7	18	29	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°	167.3	167.3	167.3	167.3	167.3	167.3	167.3	167.3	167.3	167.3	167.3
2.5°	178.2	178.2	178.2	178.2	178.2	178.2	176.4	176.4	176.4	172.7	169.1
5°	198.2	200.0	198.2	198.2	194.5	194.5	190.9	190.9	185.5	174.5	165.5
7.5°	260.0	258.2	256.4	249.1	243.6	230.9	225.5	216.4	200.0	174.5	161.8
10°	421.8	410.9	403.6	387.3	352.7	330.9	301.8	272.7	227.3	174.5	156.4
12.5°	732.7	730.9	709.1	654.5	605.5	538.2	467.3	396.4	280.0	170.9	149.1
15°	1145.4	1129.1	1098.2	1034.5	947.3	841.8	714.5	589.1	365.5	165.5	138.2
17.5°	1498.2	1478.2	1454.5	1390.9	1290.9	1158.2	1005.4	832.7	481.8	158.2	127.3
20°	1761.8	1749.1	1729.1	1678.2	1583.6	1463.6	1292.7	1083.6	623.6	149.1	116.4
22.5°	1858.2	1856.4	1860.0	1841.8	1794.5	1700.0	1536.4	1318.2	763.6	138.2	105.5
25°	1827.3	1825.4	1849.1	1872.7	1883.6	1845.4	1720.0	1507.3	883.6	129.1	96.4
27.5°	1856.4	1850.9	1840.0	1843.6	1874.5	1896.4	1838.2	1652.7	987.3	116.4	87.3
30°	2167.3	2136.4	2087.3	2003.6	1941.8	1936.4	1910.9	1767.3	1060.0	103.6	80.0
32.5°	2652.7	2614.5	2525.4	2370.9	2223.6	2110.9	2030.9	1863.6	1110.9	90.9	70.9
35°	3076.3	3049.1	2945.4	2792.7	2581.8	2370.9	2225.4	2005.4	1134.5	80.0	65.5
37.5°	3363.6	3352.7	3250.9	3087.3	2872.7	2623.6	2430.9	2150.9	1129.1	67.3	60.0
40°	3489.1	3456.3	3370.9	3232.7	3016.3	2792.7	2589.1	2243.6	1090.9	54.5	54.5
42.5°	3563.6	3527.3	3434.5	3303.6	3090.9	2852.7	2607.3	2203.6	1000.0	43.6	52.7
45°	3669.1	3630.9	3509.1	3369.1	3154.5	2878.2	2536.3	2061.8	863.6	32.7	49.1
47.5°	3732.7	3707.3	3616.3	3476.3	3216.3	2841.8	2372.7	1929.1	712.7	25.5	47.3
50°	3540.0	3514.5	3447.3	3350.9	3176.3	2720.0	2229.1	1714.5	541.8	20.0	45.5
52.5°	3047.3	3069.1	3081.8	3109.1	2981.8	2447.3	2014.5	1543.6	365.5	16.4	41.8
55°	2063.6	2096.4	2132.7	2241.8	2390.9	2178.2	1789.1	1334.5	194.5	16.4	40.0
57.5°	1621.8	1610.9	1600.0	1592.7	1709.1	1796.4	1572.7	1067.3	83.6	16.4	36.4
60°	1483.6	1450.9	1429.1	1434.5	1492.7	1458.2	1245.4	696.4	29.1	16.4	34.5
62.5°	972.7	998.2	1047.3	1130.9	1090.9	936.4	723.6	276.4	14.5	16.4	30.9
65°	378.2	365.5	378.2	401.8	347.3	258.2	161.8	49.1	12.7	14.5	27.3
67.5°	50.9	45.5	34.5	21.8	20.0	18.2	14.5	12.7	12.7	14.5	25.5
70°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	10.9	10.9	12.7	21.8
72.5°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	12.7	18.2
75°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	10.9	16.4
77.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.1	12.7
80°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.3	10.9
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	5.5	5.5	7.3	9.1
85°	1.8	3.6	1.8	3.6	3.6	3.6	3.6	3.6	3.6	5.5	7.3
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	5.5	5.5
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°	167.3	167.3	167.3	167.3
2.5°	165.5	161.8	161.8	161.8
5°	161.8	158.2	158.2	156.4
7.5°	156.4	154.5	154.5	154.5
10°	152.7	150.9	152.7	152.7
12.5°	145.5	147.3	149.1	149.1
15°	138.2	141.8	145.5	147.3
17.5°	130.9	138.2	141.8	143.6
20°	123.6	132.7	138.2	140.0
22.5°	118.2	127.3	134.5	138.2
25°	110.9	123.6	132.7	136.4
27.5°	103.6	118.2	129.1	134.5
30°	98.2	116.4	129.1	134.5
32.5°	92.7	112.7	127.3	132.7
35°	89.1	110.9	127.3	134.5
37.5°	85.5	109.1	127.3	132.7
40°	83.6	107.3	127.3	132.7
42.5°	81.8	107.3	127.3	134.5
45°	78.2	105.5	127.3	134.5
47.5°	76.4	105.5	127.3	134.5
50°	74.5	103.6	127.3	136.4
52.5°	72.7	101.8	127.3	136.4
55°	69.1	100.0	125.5	134.5
57.5°	67.3	98.2	123.6	130.9
60°	63.6	94.5	120.0	129.1
62.5°	60.0	90.9	116.4	123.6
65°	54.5	85.5	110.9	120.0
67.5°	49.1	78.2	105.5	114.5
70°	43.6	70.9	98.2	105.5
72.5°	38.2	63.6	90.9	96.4
75°	32.7	54.5	80.0	87.3
77.5°	27.3	47.3	67.3	72.7
80°	20.0	36.4	54.5	60.0
82.5°	16.4	27.3	40.0	43.6
85°	10.9	18.2	25.5	29.1
87.5°	5.5	9.1	12.7	14.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)