

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: P1311851

Luminaire Tested: P3SQAS24R709050D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311851
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: P3SQAS24R709050D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

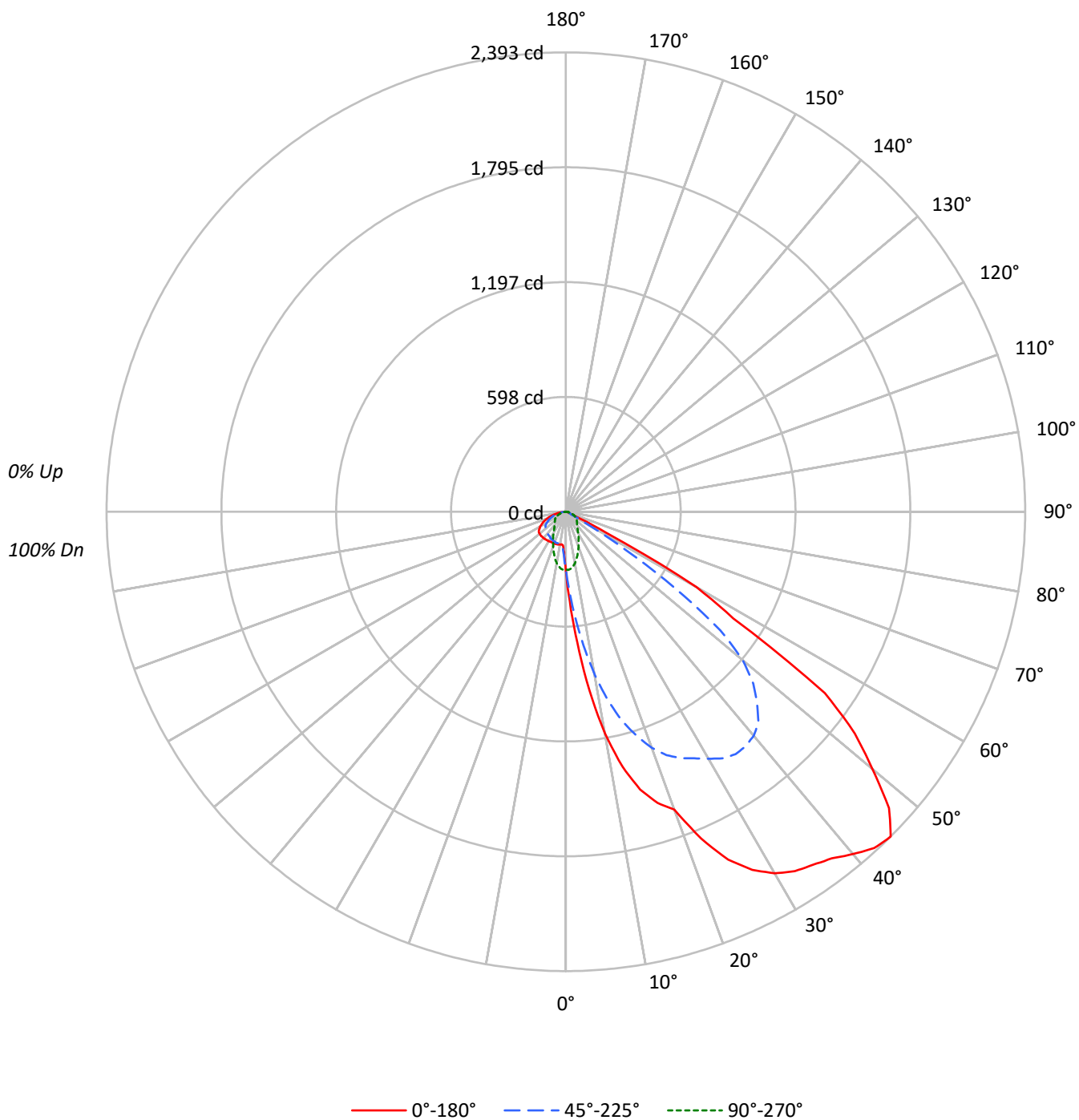
Lumens per Lamp: N/A
Luminaire Lumens: 2068.0 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	51873	51873	51873	51873	51873
5°	118060	94531	51363	32467	30323
10°	204591	150099	47620	29590	30307
15°	267073	200496	41561	30168	31273
20°	302515	239743	35537	30625	32513
25°	379920	268964	29796	30974	33331
30°	432473	295415	25435	31600	35279
35°	471958	324030	22118	32104	37297
40°	523225	342334	20414	33408	40355
45°	582936	342713	20094	35170	43719
50°	558341	322294	19907	37028	47531
55°	494380	208771	20448	39034	51405
60°	270768	44778	20598	39783	53286
65°	19357	10921	20172	39529	53792
70°	9366	10373	18682	37413	51966
75°	8251	10979	17833	35666	48043
80°	8232	10215	16365	32729	45027
85°	8102	12251	16401	28455	40706

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 582936 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	1.9
10°-20°	168.1	8.1
20°-30°	322.4	15.6
30°-40°	456.0	22.0
40°-50°	515.8	24.9
50°-60°	408.5	19.8
60°-70°	110.1	5.3
70°-80°	36.6	1.8
80°-90°	11.2	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°	529.8	25.6
0°-40°	985.8	47.7
0°-60°	1910.1	92.4
0°-90°	2068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2068.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	301	301	301	301	301	
5°	683	547	297	188	175	81
15°	1498	1124	233	169	175	422
25°	1999	1415	157	163	175	916
35°	2245	1541	105	153	177	1414
45°	2393	1407	82	144	180	1791
55°	1646	695	68	130	171	1336
65°	48	27	50	97	132	171
75°	12	16	27	54	72	13
85°	4	6	8	14	21	5
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°	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2	301.2
2.5°	468.4	468.4	466.3	458.0	453.9	443.6	435.3	412.6	356.9	303.3	260.0
5°	682.9	693.3	678.8	676.7	664.4	645.8	633.4	546.8	412.6	297.1	222.8
7.5°	936.7	940.8	936.7	916.1	897.5	866.6	837.7	701.5	468.4	286.8	196.0
10°	1169.9	1163.7	1151.3	1136.8	1110.0	1077.0	1027.5	858.3	522.0	272.3	179.5
12.5°	1359.7	1357.6	1343.2	1328.7	1295.7	1252.4	1202.9	1000.7	567.4	253.8	171.2
15°	1497.9	1497.9	1483.5	1467.0	1436.0	1400.9	1345.2	1124.5	604.5	233.1	163.0
17.5°	1590.8	1586.6	1576.3	1563.9	1539.2	1504.1	1460.8	1223.5	629.3	212.5	160.9
20°	1650.6	1648.5	1640.3	1621.7	1601.1	1574.3	1535.1	1308.1	639.6	193.9	158.9
22.5°	1842.5	1826.0	1795.0	1755.8	1706.3	1642.3	1588.7	1372.1	635.5	173.3	154.7
25°	1999.3	1993.1	1960.1	1912.6	1846.6	1764.1	1675.4	1415.4	614.8	156.8	150.6
27.5°	2102.4	2092.1	2061.2	2009.6	1939.5	1859.0	1776.5	1448.4	586.0	142.4	144.4
30°	2174.7	2168.5	2137.5	2079.8	2007.5	1918.8	1834.2	1485.5	546.8	127.9	138.2
32.5°	2220.1	2213.9	2182.9	2131.3	2061.2	1968.3	1871.4	1522.7	499.3	115.5	132.0
35°	2244.8	2238.6	2203.5	2158.2	2092.1	2001.3	1898.2	1541.2	441.5	105.2	125.9
37.5°	2275.8	2263.4	2215.9	2160.2	2094.2	2009.6	1906.4	1539.2	383.8	97.0	121.7
40°	2327.3	2294.3	2226.2	2152.0	2083.9	1999.3	1900.3	1522.7	319.8	90.8	117.6
42.5°	2376.9	2329.4	2228.3	2139.6	2063.2	1980.7	1877.6	1485.5	249.7	86.7	115.5
45°	2393.4	2323.2	2199.4	2110.7	2038.5	1953.9	1846.6	1407.1	169.2	82.5	111.4
47.5°	2284.0	2232.4	2129.3	2063.2	1995.2	1912.6	1801.2	1324.6	97.0	78.4	107.3
50°	2083.9	2050.9	1993.1	1951.8	1914.7	1856.9	1747.6	1202.9	57.8	74.3	103.2
52.5°	1898.2	1887.9	1846.6	1813.6	1793.0	1766.1	1667.1	1015.1	47.5	72.2	99.0
55°	1646.5	1613.5	1603.1	1590.8	1634.1	1632.0	1497.9	695.3	45.4	68.1	94.9
57.5°	1033.7	1048.1	1101.8	1200.8	1318.4	1386.5	1382.4	371.4	43.3	64.0	88.7
60°	786.1	784.0	800.5	841.8	928.5	1025.4	1116.2	130.0	41.3	59.8	84.6
62.5°	235.2	241.4	290.9	427.1	511.7	631.4	575.6	30.9	39.2	53.6	76.3
65°	47.5	49.5	49.5	55.7	68.1	103.2	125.9	26.8	37.1	49.5	70.2
67.5°	20.6	20.6	20.6	22.7	22.7	26.8	22.7	24.8	33.0	43.3	61.9
70°	18.6	18.6	18.6	18.6	18.6	18.6	20.6	20.6	28.9	37.1	53.6
72.5°	14.4	14.4	14.4	16.5	16.5	16.5	16.5	18.6	24.8	30.9	45.4
75°	12.4	12.4	12.4	12.4	14.4	14.4	14.4	16.5	20.6	26.8	37.1
77.5°	10.3	10.3	10.3	10.3	10.3	12.4	12.4	12.4	16.5	20.6	30.9
80°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	10.3	12.4	16.5	22.7
82.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	8.3	10.3	12.4	16.5
85°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	6.2	6.2	8.3	10.3
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.1	4.1	4.1	6.2
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):

	135°	157.5°	180°
0°	301.2	301.2	301.2
2.5°	229.0	216.6	210.5
5°	187.8	177.4	175.4
7.5°	173.3	171.2	171.2
10°	169.2	171.2	173.3
12.5°	169.2	173.3	175.4
15°	169.2	173.3	175.4
17.5°	169.2	173.3	175.4
20°	167.1	173.3	177.4
22.5°	165.1	173.3	175.4
25°	163.0	173.3	175.4
27.5°	160.9	171.2	175.4
30°	158.9	171.2	177.4
32.5°	154.7	171.2	177.4
35°	152.7	171.2	177.4
37.5°	150.6	171.2	179.5
40°	148.6	171.2	179.5
42.5°	146.5	171.2	179.5
45°	144.4	169.2	179.5
47.5°	140.3	169.2	179.5
50°	138.2	167.1	177.4
52.5°	134.1	165.1	177.4
55°	130.0	160.9	171.2
57.5°	123.8	154.7	163.0
60°	115.5	146.5	154.7
62.5°	105.2	136.2	142.4
65°	97.0	123.8	132.0
67.5°	84.6	109.4	117.6
70°	74.3	94.9	103.2
72.5°	64.0	80.5	88.7
75°	53.6	66.0	72.2
77.5°	41.3	53.6	57.8
80°	33.0	41.3	45.4
82.5°	22.7	28.9	30.9
85°	14.4	18.6	20.6
87.5°	6.2	8.3	8.3
90°	0.0	0.0	0.0

(END OF REPORT)