

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: P1309656

Luminaire Tested: P3SQAS24R709035D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309656
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: P3SQAS24R709035D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

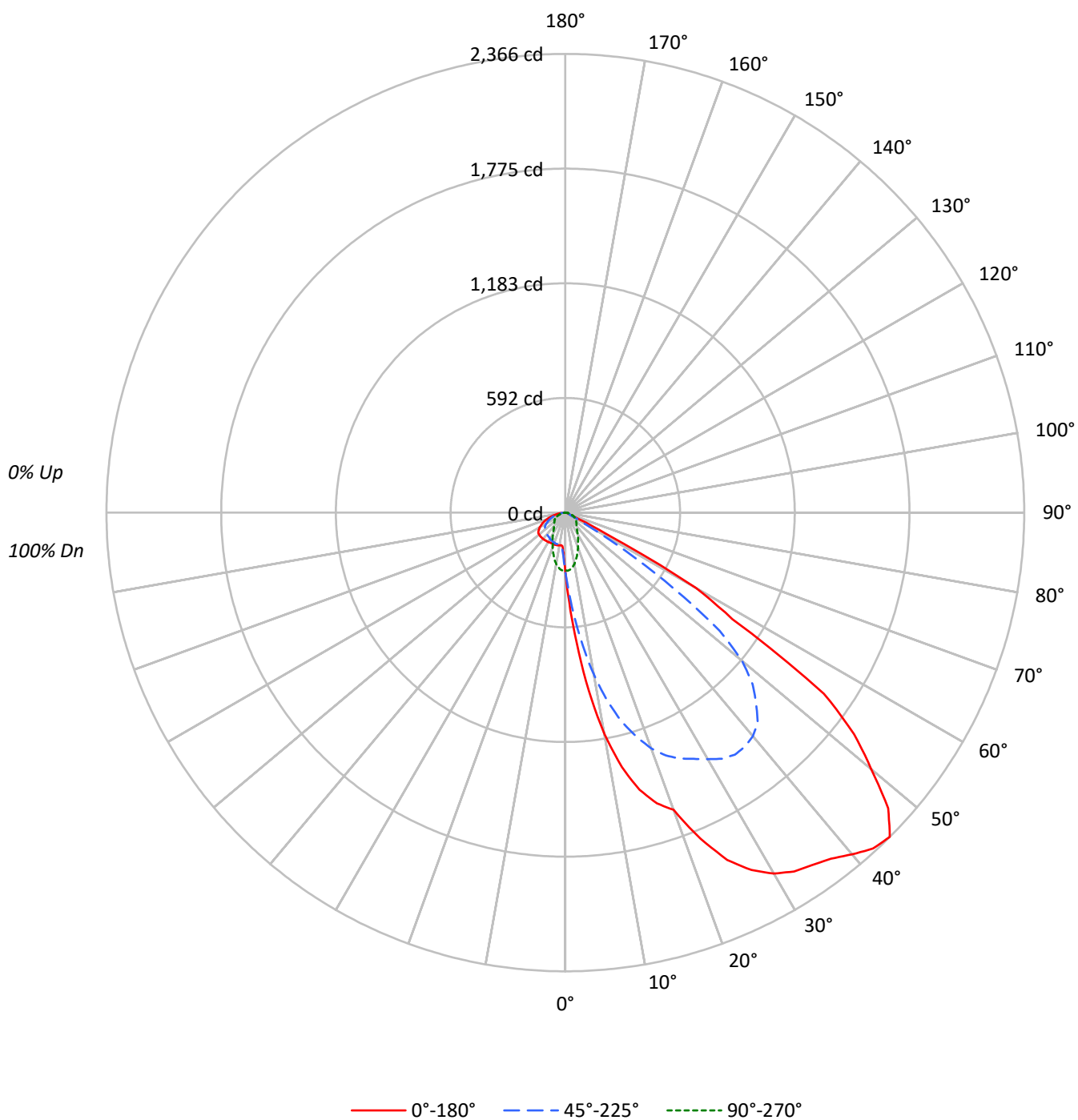
Lumens per Lamp: N/A
Luminaire Lumens: 2044.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	0
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°	51271	51271	51271	51271	51271
5°	116694	93425	50775	32087	29960
10°	202213	148350	47078	29240	29957
15°	263970	198160	41080	29811	30899
20°	298996	236957	35134	30277	32147
25°	375512	265847	29454	30613	32932
30°	427442	291994	25137	31222	34881
35°	466492	320287	21865	31726	36877
40°	517155	338355	20166	33004	39883
45°	576165	338743	19874	34780	43207
50°	551857	318543	19666	36599	46995
55°	488645	206339	20208	38584	50834
60°	267634	44261	20357	39336	52666
65°	19112	10799	19927	39040	53181
70°	9265	10272	18480	36960	51362
75°	8118	10846	17634	35267	47511
80°	8133	10116	16166	32332	44531
85°	8102	12054	16203	28257	40311

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 576165 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	1.9
10°-20°	166.1	8.1
20°-30°	318.7	15.6
30°-40°	450.7	22.0
40°-50°	509.8	24.9
50°-60°	403.8	19.8
60°-70°	108.9	5.3
70°-80°	36.1	1.8
80°-90°	11.1	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°	523.7	25.6
0°-40°	974.3	47.7
0°-60°	1887.9	92.4
0°-90°	2044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2044.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	298	298	298	298	298	
5°	675	540	294	186	173	80
15°	1480	1111	230	167	173	417
25°	1976	1399	155	161	173	906
35°	2219	1523	104	151	175	1397
45°	2366	1391	82	143	177	1770
55°	1627	687	67	128	169	1321
65°	47	26	49	96	130	169
75°	12	16	26	53	71	13
85°	4	6	8	14	20	4
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°	297.7	297.7	297.7	297.7	297.7	297.7	297.7	297.7	297.7	297.7	297.7
2.5°	462.9	462.9	460.9	452.7	448.6	438.4	430.3	407.9	352.8	299.8	257.0
5°	675.0	685.2	670.9	668.9	656.7	638.3	626.1	540.4	407.9	293.7	220.2
7.5°	925.8	929.9	925.8	905.4	887.1	856.5	828.0	693.4	462.9	283.5	193.7
10°	1156.3	1150.2	1137.9	1123.7	1097.1	1064.5	1015.6	848.3	515.9	269.2	177.4
12.5°	1343.9	1341.9	1327.6	1313.3	1280.7	1237.9	1188.9	989.1	560.8	250.8	169.3
15°	1480.5	1480.5	1466.3	1449.9	1419.4	1384.7	1329.6	1111.4	597.5	230.4	161.1
17.5°	1572.3	1568.2	1558.0	1545.8	1521.3	1486.7	1443.8	1209.3	622.0	210.0	159.1
20°	1631.4	1629.4	1621.2	1602.9	1582.5	1556.0	1517.2	1292.9	632.2	191.7	157.0
22.5°	1821.1	1804.8	1774.2	1735.4	1686.5	1623.3	1570.3	1356.1	628.1	171.3	152.9
25°	1976.1	1970.0	1937.3	1890.4	1825.2	1743.6	1655.9	1399.0	607.7	155.0	148.9
27.5°	2078.0	2067.9	2037.3	1986.3	1916.9	1837.4	1755.8	1431.6	579.2	140.7	142.8
30°	2149.4	2143.3	2112.7	2055.6	1984.2	1896.6	1812.9	1468.3	540.4	126.4	136.6
32.5°	2194.3	2188.2	2157.6	2106.6	2037.3	1945.5	1849.6	1505.0	493.5	114.2	130.5
35°	2218.8	2212.6	2178.0	2133.1	2067.9	1978.1	1876.2	1523.4	436.4	104.0	124.4
37.5°	2249.3	2237.1	2190.2	2135.1	2069.9	1986.3	1884.3	1521.3	379.3	95.8	120.3
40°	2300.3	2267.7	2200.4	2127.0	2059.7	1976.1	1878.2	1505.0	316.1	89.7	116.2
42.5°	2349.3	2302.4	2202.4	2114.8	2039.3	1957.7	1855.8	1468.3	246.8	85.7	114.2
45°	2365.6	2296.3	2173.9	2086.2	2014.8	1931.2	1825.2	1390.8	167.2	81.6	110.1
47.5°	2257.5	2206.5	2104.6	2039.3	1972.0	1890.4	1780.3	1309.2	95.8	77.5	106.0
50°	2059.7	2027.1	1970.0	1929.2	1892.5	1835.4	1727.3	1188.9	57.1	73.4	102.0
52.5°	1876.2	1866.0	1825.2	1792.5	1772.2	1745.6	1647.8	1003.3	46.9	71.4	97.9
55°	1627.4	1594.7	1584.5	1572.3	1615.1	1613.1	1480.5	687.2	44.9	67.3	93.8
57.5°	1021.7	1036.0	1089.0	1186.9	1303.1	1370.4	1366.3	367.1	42.8	63.2	87.7
60°	777.0	774.9	791.2	832.0	917.7	1013.5	1103.3	128.5	40.8	59.1	83.6
62.5°	232.5	238.6	287.5	422.1	505.7	624.0	569.0	30.6	38.7	53.0	75.5
65°	46.9	48.9	48.9	55.1	67.3	102.0	124.4	26.5	36.7	48.9	69.3
67.5°	20.4	20.4	20.4	22.4	22.4	26.5	22.4	24.5	32.6	42.8	61.2
70°	18.4	18.4	18.4	18.4	18.4	18.4	20.4	20.4	28.6	36.7	53.0
72.5°	14.3	14.3	14.3	16.3	16.3	16.3	16.3	18.4	24.5	30.6	44.9
75°	12.2	12.2	12.2	12.2	14.3	14.3	14.3	16.3	20.4	26.5	36.7
77.5°	10.2	10.2	10.2	10.2	10.2	12.2	12.2	12.2	16.3	20.4	30.6
80°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	10.2	12.2	16.3	22.4
82.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	8.2	10.2	12.2	16.3
85°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	6.1	6.1	8.2	10.2
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1	4.1	6.1
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):

	135°	157.5°	180°
0°	297.7	297.7	297.7
2.5°	226.4	214.1	208.0
5°	185.6	175.4	173.3
7.5°	171.3	169.3	169.3
10°	167.2	169.3	171.3
12.5°	167.2	171.3	173.3
15°	167.2	171.3	173.3
17.5°	167.2	171.3	173.3
20°	165.2	171.3	175.4
22.5°	163.1	171.3	173.3
25°	161.1	171.3	173.3
27.5°	159.1	169.3	173.3
30°	157.0	169.3	175.4
32.5°	152.9	169.3	175.4
35°	150.9	169.3	175.4
37.5°	148.9	169.3	177.4
40°	146.8	169.3	177.4
42.5°	144.8	169.3	177.4
45°	142.8	167.2	177.4
47.5°	138.7	167.2	177.4
50°	136.6	165.2	175.4
52.5°	132.6	163.1	175.4
55°	128.5	159.1	169.3
57.5°	122.4	152.9	161.1
60°	114.2	144.8	152.9
62.5°	104.0	134.6	140.7
65°	95.8	122.4	130.5
67.5°	83.6	108.1	116.2
70°	73.4	93.8	102.0
72.5°	63.2	79.5	87.7
75°	53.0	65.3	71.4
77.5°	40.8	53.0	57.1
80°	32.6	40.8	44.9
82.5°	22.4	28.6	30.6
85°	14.3	18.4	20.4
87.5°	6.1	8.2	8.2
90°	0.0	0.0	0.0

(END OF REPORT)