

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: P1307421

Luminaire Tested: P3SQAS24R709027D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307421
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: P3SQAS24R709027D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

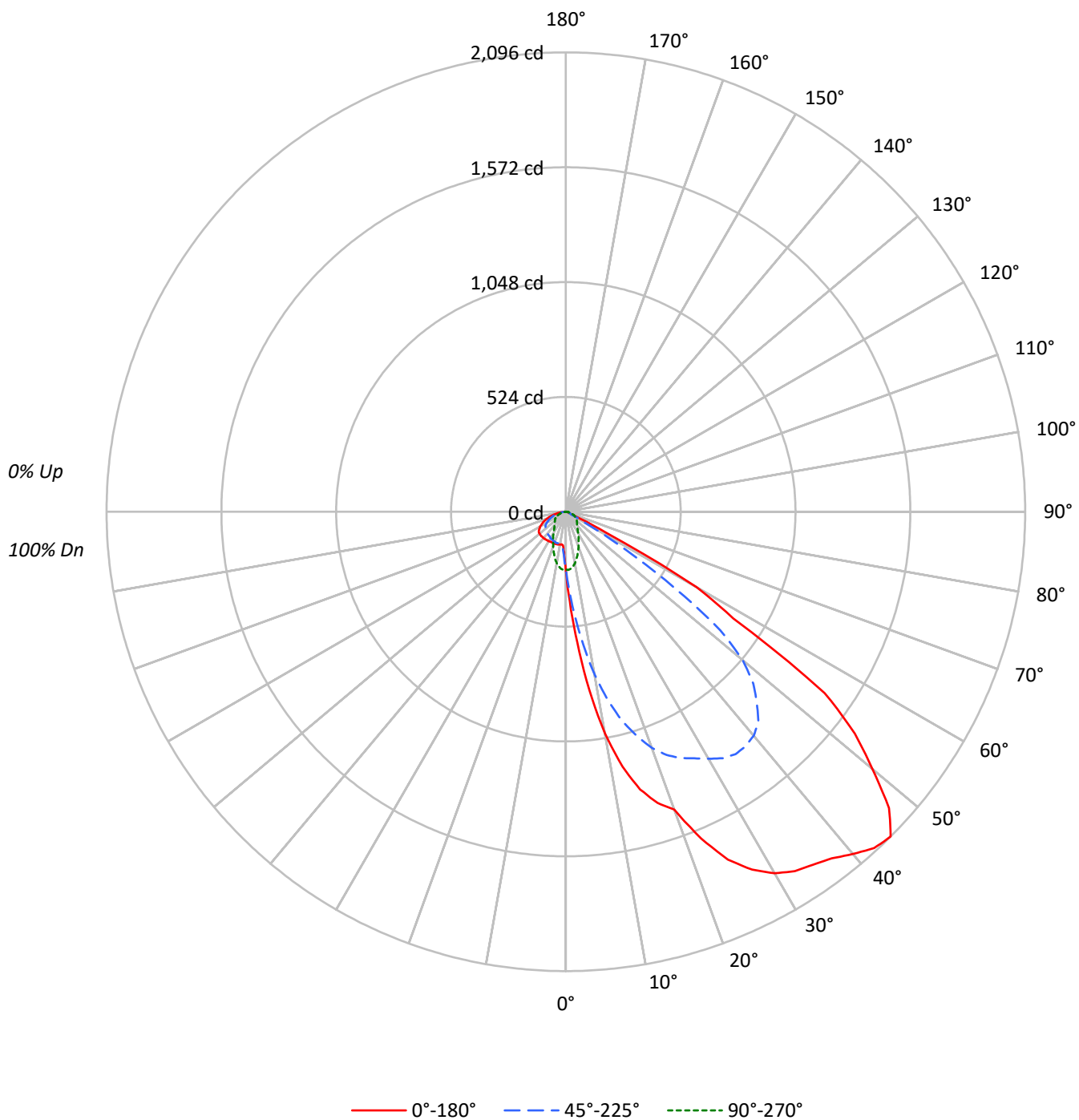
Lumens per Lamp: N/A
Luminaire Lumens: 1811.0 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	45432	45432	45432	45432	45432
5°	103400	82775	44984	28422	26554
10°	179164	131439	41709	25917	26547
15°	233891	175570	36408	26424	27387
20°	264925	209942	31120	26832	28481
25°	332699	235538	26091	27117	29188
30°	378720	258704	22273	27662	30904
35°	413300	283768	19364	28110	32672
40°	458207	299776	17873	29249	35342
45°	510477	300138	17609	30810	38288
50°	488947	282238	17416	32446	41636
55°	432946	182829	17896	34170	45039
60°	237116	39198	18049	34858	46672
65°	16953	9577	17686	34598	47109
70°	8208	9114	16365	32730	45470
75°	7187	9649	15637	31275	42054
80°	7141	8926	14381	28663	39473
85°	7114	10671	14227	24898	35766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 510477 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.4	1.9
10°-20°	147.2	8.1
20°-30°	282.4	15.6
30°-40°	399.3	22.0
40°-50°	451.7	24.9
50°-60°	357.7	19.8
60°-70°	96.5	5.3
70°-80°	32.0	1.8
80°-90°	9.8	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°	464.0	25.6
0°-40°	863.3	47.7
0°-60°	1672.7	92.4
0°-90°	1811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1811.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	264	264	264	264	264	
5°	598	479	260	164	154	71
15°	1312	985	204	148	154	370
25°	1751	1240	137	143	154	802
35°	1966	1350	92	134	155	1238
45°	2096	1232	72	126	157	1568
55°	1442	609	60	114	150	1170
65°	42	24	43	85	116	150
75°	11	14	24	47	63	12
85°	4	5	7	13	18	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°	263.8	263.8	263.8	263.8	263.8	263.8	263.8	263.8	263.8	263.8	263.8
2.5°	410.2	410.2	408.3	401.1	397.5	388.5	381.2	361.4	312.6	265.6	227.7
5°	598.1	607.1	594.4	592.6	581.8	565.5	554.7	478.8	361.4	260.2	195.1
7.5°	820.3	823.9	820.3	802.2	786.0	758.9	733.6	614.3	410.2	251.2	171.6
10°	1024.5	1019.1	1008.2	995.6	972.1	943.2	899.8	751.6	457.1	238.5	157.2
12.5°	1190.7	1188.9	1176.3	1163.6	1134.7	1096.8	1053.4	876.3	496.9	222.2	150.0
15°	1311.8	1311.8	1299.1	1284.7	1257.6	1226.8	1178.1	984.7	529.4	204.2	142.7
17.5°	1393.1	1389.5	1380.4	1369.6	1347.9	1317.2	1279.2	1071.5	551.1	186.1	140.9
20°	1445.5	1443.7	1436.4	1420.2	1402.1	1378.6	1344.3	1145.5	560.1	169.8	139.1
22.5°	1613.5	1599.1	1571.9	1537.6	1494.3	1438.2	1391.3	1201.5	556.5	151.8	135.5
25°	1750.8	1745.4	1716.5	1674.9	1617.1	1544.8	1467.2	1239.5	538.4	137.3	131.9
27.5°	1841.2	1832.1	1805.0	1759.9	1698.4	1628.0	1555.7	1268.4	513.1	124.7	126.5
30°	1904.4	1899.0	1871.9	1821.3	1758.1	1680.4	1606.3	1300.9	478.8	112.0	121.1
32.5°	1944.2	1938.7	1911.6	1866.5	1805.0	1723.7	1638.8	1333.4	437.3	101.2	115.6
35°	1965.8	1960.4	1929.7	1890.0	1832.1	1752.6	1662.3	1349.7	386.7	92.1	110.2
37.5°	1992.9	1982.1	1940.5	1891.8	1833.9	1759.9	1669.5	1347.9	336.1	84.9	106.6
40°	2038.1	2009.2	1949.6	1884.5	1824.9	1750.8	1664.1	1333.4	280.1	79.5	103.0
42.5°	2081.5	2039.9	1951.4	1873.7	1806.8	1734.6	1644.2	1300.9	218.6	75.9	101.2
45°	2095.9	2034.5	1926.1	1848.4	1785.2	1711.1	1617.1	1232.3	148.2	72.3	97.6
47.5°	2000.2	1955.0	1864.7	1806.8	1747.2	1674.9	1577.4	1160.0	84.9	68.7	94.0
50°	1824.9	1796.0	1745.4	1709.3	1676.7	1626.2	1530.4	1053.4	50.6	65.0	90.3
52.5°	1662.3	1653.3	1617.1	1588.2	1570.1	1546.7	1459.9	889.0	41.6	63.2	86.7
55°	1441.9	1412.9	1403.9	1393.1	1431.0	1429.2	1311.8	608.9	39.8	59.6	83.1
57.5°	905.2	917.9	964.9	1051.6	1154.6	1214.2	1210.6	325.2	37.9	56.0	77.7
60°	688.4	686.6	701.1	737.2	813.1	898.0	977.5	113.8	36.1	52.4	74.1
62.5°	206.0	211.4	254.8	374.0	448.1	552.9	504.1	27.1	34.3	47.0	66.9
65°	41.6	43.4	43.4	48.8	59.6	90.3	110.2	23.5	32.5	43.4	61.4
67.5°	18.1	18.1	18.1	19.9	19.9	23.5	19.9	21.7	28.9	37.9	54.2
70°	16.3	16.3	16.3	16.3	16.3	16.3	18.1	18.1	25.3	32.5	47.0
72.5°	12.6	12.6	12.6	14.5	14.5	14.5	14.5	16.3	21.7	27.1	39.8
75°	10.8	10.8	10.8	10.8	12.6	12.6	12.6	14.5	18.1	23.5	32.5
77.5°	9.0	9.0	9.0	9.0	9.0	10.8	10.8	10.8	14.5	18.1	27.1
80°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	9.0	10.8	14.5	19.9
82.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	7.2	9.0	10.8	14.5
85°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	5.4	5.4	7.2	9.0
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6	5.4
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°	263.8	263.8	263.8
2.5°	200.6	189.7	184.3
5°	164.4	155.4	153.6
7.5°	151.8	150.0	150.0
10°	148.2	150.0	151.8
12.5°	148.2	151.8	153.6
15°	148.2	151.8	153.6
17.5°	148.2	151.8	153.6
20°	146.4	151.8	155.4
22.5°	144.5	151.8	153.6
25°	142.7	151.8	153.6
27.5°	140.9	150.0	153.6
30°	139.1	150.0	155.4
32.5°	135.5	150.0	155.4
35°	133.7	150.0	155.4
37.5°	131.9	150.0	157.2
40°	130.1	150.0	157.2
42.5°	128.3	150.0	157.2
45°	126.5	148.2	157.2
47.5°	122.9	148.2	157.2
50°	121.1	146.4	155.4
52.5°	117.4	144.5	155.4
55°	113.8	140.9	150.0
57.5°	108.4	135.5	142.7
60°	101.2	128.3	135.5
62.5°	92.1	119.3	124.7
65°	84.9	108.4	115.6
67.5°	74.1	95.8	103.0
70°	65.0	83.1	90.3
72.5°	56.0	70.5	77.7
75°	47.0	57.8	63.2
77.5°	36.1	47.0	50.6
80°	28.9	36.1	39.8
82.5°	19.9	25.3	27.1
85°	12.6	16.3	18.1
87.5°	5.4	7.2	7.2
90°	0.0	0.0	0.0

(END OF REPORT)