

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: P1317478

Luminaire Tested: P3SQAS20R609830D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R609830D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

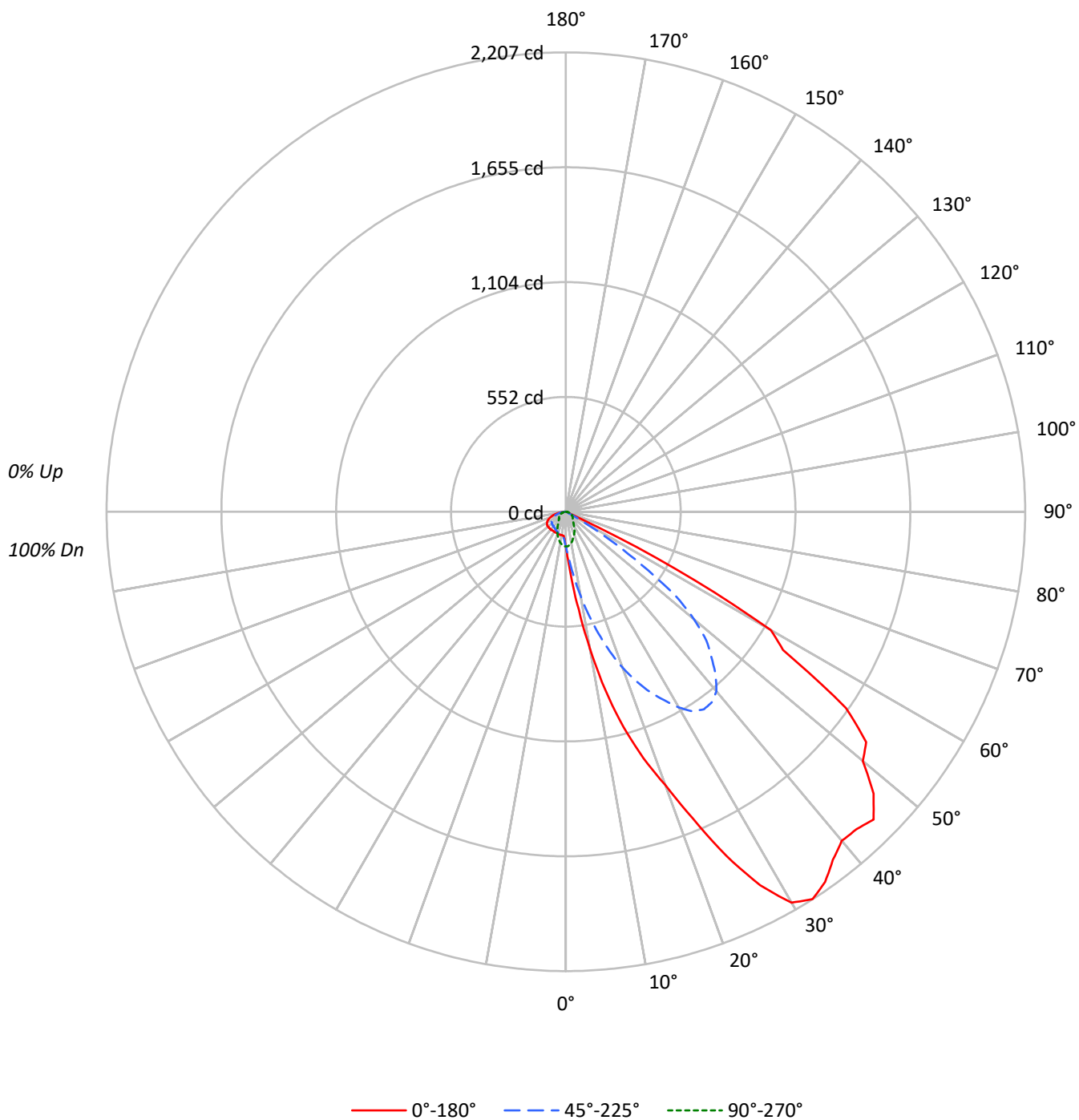
Lumens per Lamp: N/A
Luminaire Lumens: 1680.0 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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
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	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	28675	28675	28675	28675	28675
5°	56497	44085	28249	21385	20331
10°	116715	71840	26442	19499	19761
15°	190868	107817	23696	19613	20148
20°	256091	146107	21278	19592	20435
25°	346495	181380	18566	19440	21188
30°	431240	215928	15492	19429	22174
35°	456568	243380	13161	19910	23127
40°	463850	253036	12005	20594	25068
45°	509210	241027	11520	21945	27157
50°	499182	216033	11467	23310	29874
55°	493389	132505	11470	25222	33029
60°	391359	31551	12090	26832	35753
65°	24899	5583	11818	27385	38592
70°	5388	6143	11531	28450	40737
75°	5057	6122	10181	27415	41655
80°	4562	6050	10612	27274	39374
85°	2964	6126	12054	24108	39323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 537466 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.8	1.2
10°-20°	104.7	6.2
20°-30°	242.9	14.5
30°-40°	377.6	22.5
40°-50°	430.3	25.6
50°-60°	362.4	21.6
60°-70°	105.2	6.3
70°-80°	26.9	1.6
80°-90°	9.1	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°	368.4	21.9
0°-40°	746.1	44.4
0°-60°	1538.8	91.6
0°-90°	1680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1680.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	166	166	166	166	166	
5°	327	255	163	124	118	42
15°	1070	605	133	110	113	310
25°	1823	954	98	102	112	847
35°	2172	1158	63	95	110	1349
45°	2091	990	47	90	112	1572
55°	1643	441	38	84	110	1383
65°	61	14	29	67	95	302
75°	8	9	15	41	63	8
85°	2	3	6	12	20	2
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°	166.5	166.5	166.5	166.5	166.5	166.5	166.5	166.5	166.5	166.5	166.5
2.5°	224.5	223.0	223.0	221.4	219.9	218.4	213.8	212.3	203.1	184.8	166.5
5°	326.8	325.3	320.7	319.2	311.5	300.8	290.2	279.5	255.0	203.1	163.4
7.5°	473.4	476.5	473.4	456.6	445.9	429.1	397.1	374.1	325.3	221.4	157.3
10°	667.4	667.4	662.8	636.8	613.9	581.8	540.6	500.9	410.8	238.2	151.2
12.5°	878.1	882.7	859.8	838.4	797.2	757.5	701.0	641.4	508.5	252.0	143.6
15°	1070.5	1067.5	1044.6	1017.1	974.3	919.3	859.8	783.4	604.7	261.1	132.9
17.5°	1241.6	1235.5	1215.6	1185.1	1133.1	1072.1	995.7	913.2	704.0	268.8	125.2
20°	1397.3	1376.0	1353.0	1321.0	1270.6	1206.4	1127.0	1033.9	797.2	268.8	116.1
22.5°	1594.3	1573.0	1540.9	1492.0	1424.8	1345.4	1252.3	1146.9	879.6	262.7	106.9
25°	1823.4	1806.6	1751.6	1689.0	1602.0	1507.3	1398.9	1256.8	954.5	253.5	97.7
27.5°	2023.5	2005.1	1950.2	1858.5	1753.2	1640.2	1525.6	1380.5	1020.1	236.7	87.0
30°	2168.5	2145.6	2102.9	2015.8	1887.5	1750.1	1614.2	1475.2	1085.8	216.9	77.9
32.5°	2206.7	2203.7	2171.6	2107.5	1992.9	1841.7	1679.9	1528.7	1137.7	190.9	70.2
35°	2171.6	2176.2	2170.1	2138.0	2054.0	1905.9	1722.6	1557.7	1157.6	164.9	62.6
37.5°	2107.5	2113.6	2124.3	2128.8	2075.4	1944.1	1747.1	1569.9	1153.0	139.0	58.0
40°	2063.2	2060.1	2060.1	2090.7	2080.0	1960.9	1750.1	1560.7	1125.5	111.5	53.4
42.5°	2067.8	2034.2	2011.2	2060.1	2075.4	1953.2	1730.3	1536.3	1065.9	85.5	48.9
45°	2090.7	2018.9	1979.2	2041.8	2066.2	1927.3	1693.6	1499.7	989.6	59.6	47.3
47.5°	2005.1	1957.8	1951.7	2040.3	2049.4	1883.0	1637.1	1441.6	916.3	41.2	44.3
50°	1863.1	1855.5	1887.5	1979.2	1980.7	1809.7	1573.0	1336.2	806.3	29.0	42.8
52.5°	1818.8	1823.4	1852.4	1899.8	1855.5	1686.0	1456.9	1247.7	667.4	22.9	41.2
55°	1643.2	1650.8	1678.3	1707.3	1675.3	1534.8	1316.4	1140.8	441.3	21.4	38.2
57.5°	1237.0	1256.8	1307.2	1333.2	1336.2	1250.7	1192.7	983.5	248.9	21.4	36.7
60°	1136.2	1110.2	1087.3	1033.9	985.0	974.3	980.4	737.6	91.6	19.9	35.1
62.5°	594.1	581.8	617.0	639.9	646.0	679.6	635.3	389.4	19.9	19.9	32.1
65°	61.1	61.1	74.8	99.3	164.9	219.9	209.2	113.0	13.7	18.3	29.0
67.5°	18.3	18.3	18.3	21.4	27.5	27.5	22.9	16.8	13.7	16.8	26.0
70°	10.7	10.7	10.7	10.7	10.7	10.7	12.2	10.7	12.2	15.3	22.9
72.5°	9.2	9.2	9.2	9.2	10.7	10.7	10.7	10.7	10.7	13.7	19.9
75°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	9.2	9.2	10.7	15.3
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	7.6	7.6	7.6	9.2	12.2
80°	4.6	4.6	4.6	4.6	4.6	6.1	6.1	6.1	6.1	7.6	10.7
82.5°	3.1	3.1	3.1	3.1	4.6	4.6	4.6	4.6	4.6	6.1	7.6
85°	1.5	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.6	6.1
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1	3.1	4.6
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°	166.5	166.5	166.5	166.5
2.5°	151.2	140.5	134.4	131.3
5°	137.4	123.7	119.1	117.6
7.5°	125.2	116.1	114.5	114.5
10°	117.6	111.5	113.0	113.0
12.5°	113.0	111.5	113.0	114.5
15°	108.4	110.0	113.0	113.0
17.5°	105.4	108.4	111.5	113.0
20°	100.8	106.9	111.5	111.5
22.5°	97.7	105.4	110.0	111.5
25°	94.7	102.3	108.4	111.5
27.5°	90.1	100.8	108.4	110.0
30°	85.5	97.7	106.9	111.5
32.5°	80.9	96.2	106.9	110.0
35°	77.9	94.7	106.9	110.0
37.5°	74.8	93.2	106.9	111.5
40°	73.3	91.6	105.4	111.5
42.5°	70.2	91.6	105.4	111.5
45°	68.7	90.1	105.4	111.5
47.5°	67.2	88.6	105.4	111.5
50°	64.1	87.0	103.8	111.5
52.5°	62.6	85.5	103.8	111.5
55°	59.6	84.0	102.3	110.0
57.5°	58.0	80.9	100.8	106.9
60°	55.0	77.9	97.7	103.8
62.5°	50.4	73.3	93.2	100.8
65°	45.8	67.2	88.6	94.7
67.5°	41.2	62.6	82.5	88.6
70°	36.7	56.5	74.8	80.9
72.5°	32.1	48.9	67.2	71.8
75°	27.5	41.2	56.5	62.6
77.5°	21.4	33.6	47.3	51.9
80°	16.8	27.5	36.7	39.7
82.5°	13.7	19.9	27.5	29.0
85°	9.2	12.2	16.8	19.9
87.5°	4.6	6.1	7.6	9.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)