

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: P1307261

Luminaire Tested: P3SQAS20R609027D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307261
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: P3SQAS20R609027D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

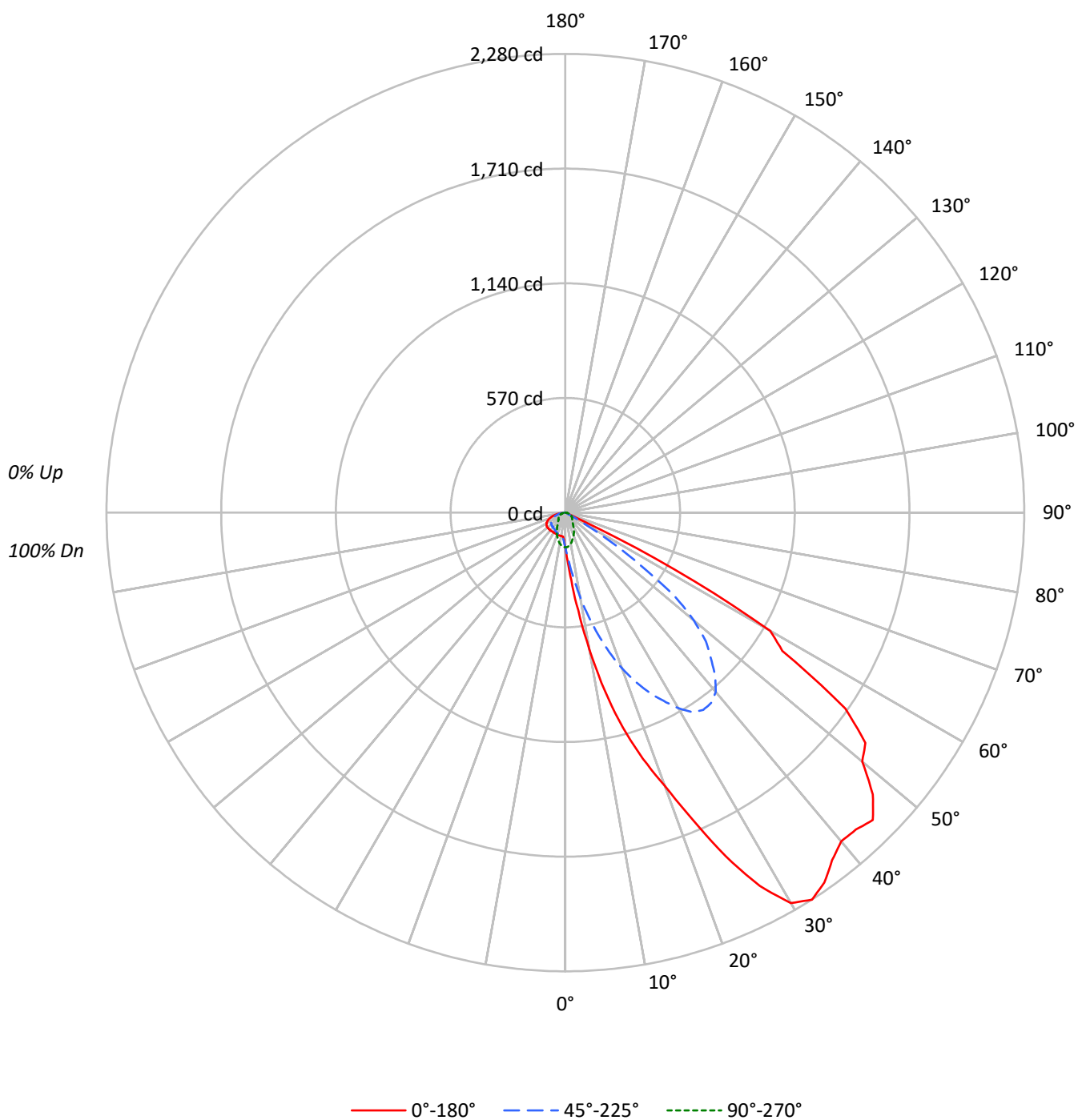
Lumens per Lamp: N/A
Luminaire Lumens: 1736.0 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	29622	29622	29622	29622	29622
5°	58382	45554	29200	22094	21005
10°	120597	74236	27316	20146	20426
15°	197233	111418	24480	20255	20825
20°	264632	150964	21975	20252	21113
25°	358048	187423	19193	20086	21891
30°	445618	223127	16009	20085	22909
35°	471790	251495	13603	20562	23884
40°	479295	261466	12410	21291	25899
45°	526162	249064	11910	22675	28058
50°	515821	223240	11843	24087	30866
55°	509843	136949	11860	26063	34110
60°	404413	32619	12503	27728	36959
65°	25714	5787	12225	28281	39855
70°	5539	6345	11934	29407	42096
75°	5257	6321	10514	28347	43052
80°	4661	6248	10910	28167	40663
85°	3162	6323	12449	24898	40509

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 555374 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.5	1.2
10°-20°	108.2	6.2
20°-30°	251.0	14.5
30°-40°	390.2	22.5
40°-50°	444.6	25.6
50°-60°	374.5	21.6
60°-70°	108.7	6.3
70°-80°	27.8	1.6
80°-90°	9.4	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°	380.7	21.9
0°-40°	770.9	44.4
0°-60°	1590.1	91.6
0°-90°	1736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1736.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	172	172	172	172	172	
5°	338	264	169	128	122	43
15°	1106	625	137	114	117	320
25°	1884	986	101	106	115	875
35°	2244	1196	65	98	114	1394
45°	2160	1023	49	93	115	1624
55°	1698	456	40	87	114	1429
65°	63	14	30	69	98	312
75°	8	10	16	43	65	8
85°	2	3	6	13	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°	172.0	172.0	172.0	172.0	172.0	172.0	172.0	172.0	172.0	172.0	172.0
2.5°	232.0	230.4	230.4	228.8	227.2	225.7	220.9	219.3	209.9	190.9	172.0
5°	337.7	336.1	331.4	329.8	321.9	310.9	299.8	288.8	263.5	209.9	168.9
7.5°	489.2	492.4	489.2	471.8	460.8	443.4	410.3	386.6	336.1	228.8	162.5
10°	689.6	689.6	684.9	658.0	634.4	601.2	558.6	517.6	424.5	246.2	156.2
12.5°	907.4	912.1	888.4	866.3	823.7	782.7	724.3	662.8	525.5	260.4	148.3
15°	1106.2	1103.1	1079.4	1051.0	1006.8	950.0	888.4	809.5	624.9	269.8	137.3
17.5°	1283.0	1276.6	1256.1	1224.6	1170.9	1107.8	1028.9	943.7	727.5	277.7	129.4
20°	1443.9	1421.8	1398.1	1365.0	1312.9	1246.7	1164.6	1068.3	823.7	277.7	119.9
22.5°	1647.5	1625.4	1592.2	1541.8	1472.3	1390.3	1294.0	1185.1	909.0	271.4	110.5
25°	1884.2	1866.8	1810.0	1745.3	1655.4	1557.5	1445.5	1298.7	986.3	262.0	101.0
27.5°	2090.9	2072.0	2015.2	1920.5	1811.6	1694.8	1576.5	1426.6	1054.1	244.6	89.9
30°	2240.8	2217.2	2173.0	2083.0	1950.5	1808.4	1668.0	1524.4	1122.0	224.1	80.5
32.5°	2280.3	2277.1	2244.0	2177.7	2059.4	1903.1	1735.9	1579.6	1175.6	197.3	72.6
35°	2244.0	2248.7	2242.4	2209.3	2122.5	1969.4	1780.0	1609.6	1196.2	170.4	64.7
37.5°	2177.7	2184.0	2195.1	2199.8	2144.6	2008.9	1805.3	1622.2	1191.4	143.6	60.0
40°	2131.9	2128.8	2128.8	2160.3	2149.3	2026.2	1808.4	1612.8	1163.0	115.2	55.2
42.5°	2136.7	2102.0	2078.3	2128.8	2144.6	2018.3	1787.9	1587.5	1101.5	88.4	50.5
45°	2160.3	2086.2	2045.1	2109.8	2135.1	1991.5	1750.1	1549.6	1022.6	61.5	48.9
47.5°	2072.0	2023.1	2016.7	2108.3	2117.7	1945.7	1691.7	1489.7	946.8	42.6	45.8
50°	1925.2	1917.3	1950.5	2045.1	2046.7	1870.0	1625.4	1380.8	833.2	30.0	44.2
52.5°	1879.5	1884.2	1914.2	1963.1	1917.3	1742.2	1505.5	1289.3	689.6	23.7	42.6
55°	1698.0	1705.9	1734.3	1764.3	1731.1	1585.9	1360.3	1178.8	456.1	22.1	39.5
57.5°	1278.2	1298.7	1350.8	1377.6	1380.8	1292.4	1232.5	1016.3	257.2	22.1	37.9
60°	1174.1	1147.2	1123.6	1068.3	1017.8	1006.8	1013.1	762.2	94.7	20.5	36.3
62.5°	613.9	601.2	637.5	661.2	667.5	702.2	656.5	402.4	20.5	20.5	33.1
65°	63.1	63.1	77.3	102.6	170.4	227.2	216.2	116.8	14.2	18.9	30.0
67.5°	18.9	18.9	18.9	22.1	28.4	28.4	23.7	17.4	14.2	17.4	26.8
70°	11.0	11.0	11.0	11.0	11.0	11.0	12.6	11.0	12.6	15.8	23.7
72.5°	9.5	9.5	9.5	9.5	11.0	11.0	11.0	11.0	11.0	14.2	20.5
75°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	9.5	9.5	11.0	15.8
77.5°	6.3	6.3	6.3	6.3	6.3	6.3	7.9	7.9	7.9	9.5	12.6
80°	4.7	4.7	4.7	4.7	4.7	6.3	6.3	6.3	6.3	7.9	11.0
82.5°	3.2	3.2	3.2	3.2	4.7	4.7	4.7	4.7	4.7	6.3	7.9
85°	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.7	6.3
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	4.7
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°	172.0	172.0	172.0	172.0
2.5°	156.2	145.2	138.9	135.7
5°	142.0	127.8	123.1	121.5
7.5°	129.4	119.9	118.4	118.4
10°	121.5	115.2	116.8	116.8
12.5°	116.8	115.2	116.8	118.4
15°	112.0	113.6	116.8	116.8
17.5°	108.9	112.0	115.2	116.8
20°	104.2	110.5	115.2	115.2
22.5°	101.0	108.9	113.6	115.2
25°	97.8	105.7	112.0	115.2
27.5°	93.1	104.2	112.0	113.6
30°	88.4	101.0	110.5	115.2
32.5°	83.6	99.4	110.5	113.6
35°	80.5	97.8	110.5	113.6
37.5°	77.3	96.3	110.5	115.2
40°	75.7	94.7	108.9	115.2
42.5°	72.6	94.7	108.9	115.2
45°	71.0	93.1	108.9	115.2
47.5°	69.4	91.5	108.9	115.2
50°	66.3	89.9	107.3	115.2
52.5°	64.7	88.4	107.3	115.2
55°	61.5	86.8	105.7	113.6
57.5°	60.0	83.6	104.2	110.5
60°	56.8	80.5	101.0	107.3
62.5°	52.1	75.7	96.3	104.2
65°	47.3	69.4	91.5	97.8
67.5°	42.6	64.7	85.2	91.5
70°	37.9	58.4	77.3	83.6
72.5°	33.1	50.5	69.4	74.2
75°	28.4	42.6	58.4	64.7
77.5°	22.1	34.7	48.9	53.7
80°	17.4	28.4	37.9	41.0
82.5°	14.2	20.5	28.4	30.0
85°	9.5	12.6	17.4	20.5
87.5°	4.7	6.3	7.9	9.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)