

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: P1313764

Luminaire Tested: P3SQAS20R509730D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R509730D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

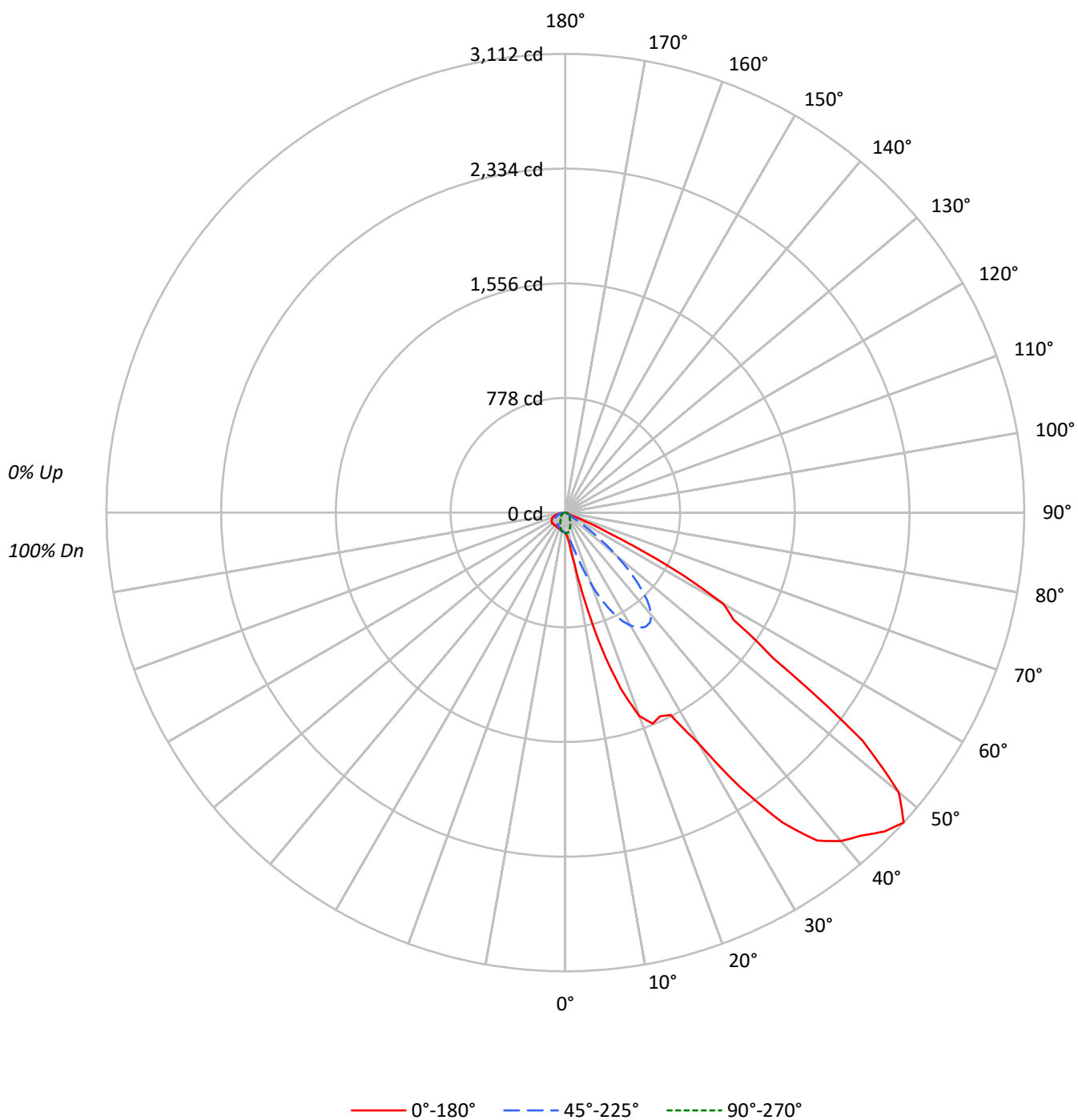
Lumens per Lamp: N/A
Luminaire Lumens: 1755.0 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	24025	24025	24025	24025	24025
5°	28560	26727	23840	22803	22544
10°	61505	33140	22804	22000	22262
15°	170275	54327	20540	21075	21895
20°	269213	95285	17778	20289	21388
25°	289487	139993	15259	19592	21606
30°	359330	175738	13264	19290	22313
35°	539236	198871	11479	19448	23589
40°	653981	204474	10229	20099	24888
45°	745049	175363	9962	21409	27327
50°	790771	121024	10155	23149	30464
55°	516599	48702	9999	25042	33689
60°	426044	8370	9920	27142	37062
65°	128489	4320	9251	29015	40751
70°	5338	4582	9165	29760	44262
75°	5057	5057	9050	30276	48442
80°	4463	4463	9025	30051	49590
85°	2964	5928	12054	30036	48018

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 793342 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.5	0.8
10°-20°	83.1	4.7
20°-30°	213.6	12.2
30°-40°	383.7	21.9
40°-50°	512.6	29.2
50°-60°	390.4	22.2
60°-70°	118.5	6.8
70°-80°	28.3	1.6
80°-90°	10.2	0.6
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°	311.3	17.7
0°-40°	695.0	39.6
0°-60°	1598.0	91.1
0°-90°	1755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1755.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	140	140	140	140	140	
5°	165	155	138	132	130	21
15°	955	305	115	118	123	281
25°	1523	737	80	103	114	727
35°	2565	946	55	92	112	1575
45°	3059	720	41	88	112	2339
55°	1720	162	33	83	112	1712
65°	315	11	23	71	100	436
75°	8	8	14	46	73	8
85°	2	3	6	15	24	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°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5
2.5°	148.6	148.6	148.6	148.6	148.6	148.6	147.0	147.0	147.0	144.0	141.0
5°	165.2	166.7	165.2	165.2	162.2	162.2	159.2	159.2	154.6	145.5	137.9
7.5°	216.8	215.3	213.7	207.7	203.1	192.5	188.0	180.4	166.7	145.5	134.9
10°	351.7	342.6	336.5	322.9	294.1	275.9	251.6	227.4	189.5	145.5	130.4
12.5°	610.9	609.4	591.2	545.7	504.8	448.7	389.6	330.5	233.4	142.5	124.3
15°	955.0	941.4	915.6	862.5	789.8	701.8	595.7	491.1	304.7	137.9	115.2
17.5°	1249.1	1232.4	1212.7	1159.6	1076.3	965.6	838.3	694.3	401.7	131.9	106.1
20°	1468.9	1458.3	1441.6	1399.1	1320.3	1220.3	1077.8	903.5	519.9	124.3	97.0
22.5°	1549.2	1547.7	1550.7	1535.6	1496.2	1417.3	1280.9	1099.0	636.7	115.2	87.9
25°	1523.4	1521.9	1541.6	1561.3	1570.4	1538.6	1434.0	1256.6	736.7	107.6	80.3
27.5°	1547.7	1543.1	1534.1	1537.1	1562.9	1581.0	1532.5	1377.9	823.1	97.0	72.8
30°	1806.9	1781.1	1740.2	1670.5	1618.9	1614.4	1593.2	1473.4	883.7	86.4	66.7
32.5°	2211.6	2179.8	2105.5	1976.7	1853.9	1759.9	1693.2	1553.8	926.2	75.8	59.1
35°	2564.8	2542.1	2455.7	2328.4	2152.5	1976.7	1855.4	1672.0	945.9	66.7	54.6
37.5°	2804.3	2795.3	2710.4	2573.9	2395.1	2187.4	2026.7	1793.3	941.4	56.1	50.0
40°	2908.9	2881.7	2810.4	2695.2	2514.8	2328.4	2158.6	1870.6	909.5	45.5	45.5
42.5°	2971.1	2940.8	2863.5	2754.3	2577.0	2378.4	2173.7	1837.2	833.7	36.4	44.0
45°	3059.0	3027.2	2925.6	2808.9	2630.0	2399.6	2114.6	1719.0	720.0	27.3	40.9
47.5°	3112.1	3090.8	3015.1	2898.3	2681.6	2369.3	1978.2	1608.3	594.2	21.2	39.4
50°	2951.4	2930.2	2874.1	2793.7	2648.2	2267.7	1858.4	1429.5	451.7	16.7	37.9
52.5°	2540.6	2558.8	2569.4	2592.1	2486.0	2040.4	1679.6	1287.0	304.7	13.6	34.9
55°	1720.5	1747.8	1778.1	1869.1	1993.4	1816.0	1491.6	1112.6	162.2	13.6	33.3
57.5°	1352.1	1343.1	1334.0	1327.9	1424.9	1497.7	1311.2	889.8	69.7	13.6	30.3
60°	1236.9	1209.7	1191.5	1196.0	1244.5	1215.7	1038.4	580.6	24.3	13.6	28.8
62.5°	811.0	832.2	873.1	942.9	909.5	780.7	603.3	230.4	12.1	13.6	25.8
65°	315.3	304.7	315.3	335.0	289.5	215.3	134.9	40.9	10.6	12.1	22.7
67.5°	42.4	37.9	28.8	18.2	16.7	15.2	12.1	10.6	10.6	12.1	21.2
70°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	9.1	9.1	10.6	18.2
72.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	10.6	15.2
75°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	9.1	13.6
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.6	10.6
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.1	9.1
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5	6.1	7.6
85°	1.5	3.0	1.5	3.0	3.0	3.0	3.0	3.0	3.0	4.5	6.1
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	4.5	4.5
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°	139.5	139.5	139.5	139.5
2.5°	137.9	134.9	134.9	134.9
5°	134.9	131.9	131.9	130.4
7.5°	130.4	128.8	128.8	128.8
10°	127.3	125.8	127.3	127.3
12.5°	121.3	122.8	124.3	124.3
15°	115.2	118.2	121.3	122.8
17.5°	109.1	115.2	118.2	119.8
20°	103.1	110.7	115.2	116.7
22.5°	98.5	106.1	112.2	115.2
25°	92.5	103.1	110.7	113.7
27.5°	86.4	98.5	107.6	112.2
30°	81.9	97.0	107.6	112.2
32.5°	77.3	94.0	106.1	110.7
35°	74.3	92.5	106.1	112.2
37.5°	71.2	91.0	106.1	110.7
40°	69.7	89.4	106.1	110.7
42.5°	68.2	89.4	106.1	112.2
45°	65.2	87.9	106.1	112.2
47.5°	63.7	87.9	106.1	112.2
50°	62.2	86.4	106.1	113.7
52.5°	60.6	84.9	106.1	113.7
55°	57.6	83.4	104.6	112.2
57.5°	56.1	81.9	103.1	109.1
60°	53.1	78.8	100.0	107.6
62.5°	50.0	75.8	97.0	103.1
65°	45.5	71.2	92.5	100.0
67.5°	40.9	65.2	87.9	95.5
70°	36.4	59.1	81.9	87.9
72.5°	31.8	53.1	75.8	80.3
75°	27.3	45.5	66.7	72.8
77.5°	22.7	39.4	56.1	60.6
80°	16.7	30.3	45.5	50.0
82.5°	13.6	22.7	33.3	36.4
85°	9.1	15.2	21.2	24.3
87.5°	4.5	7.6	10.6	12.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)