

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: P1308507

Luminaire Tested: P3SQAS24R509030D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308507
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: P3SQAS24R509030D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

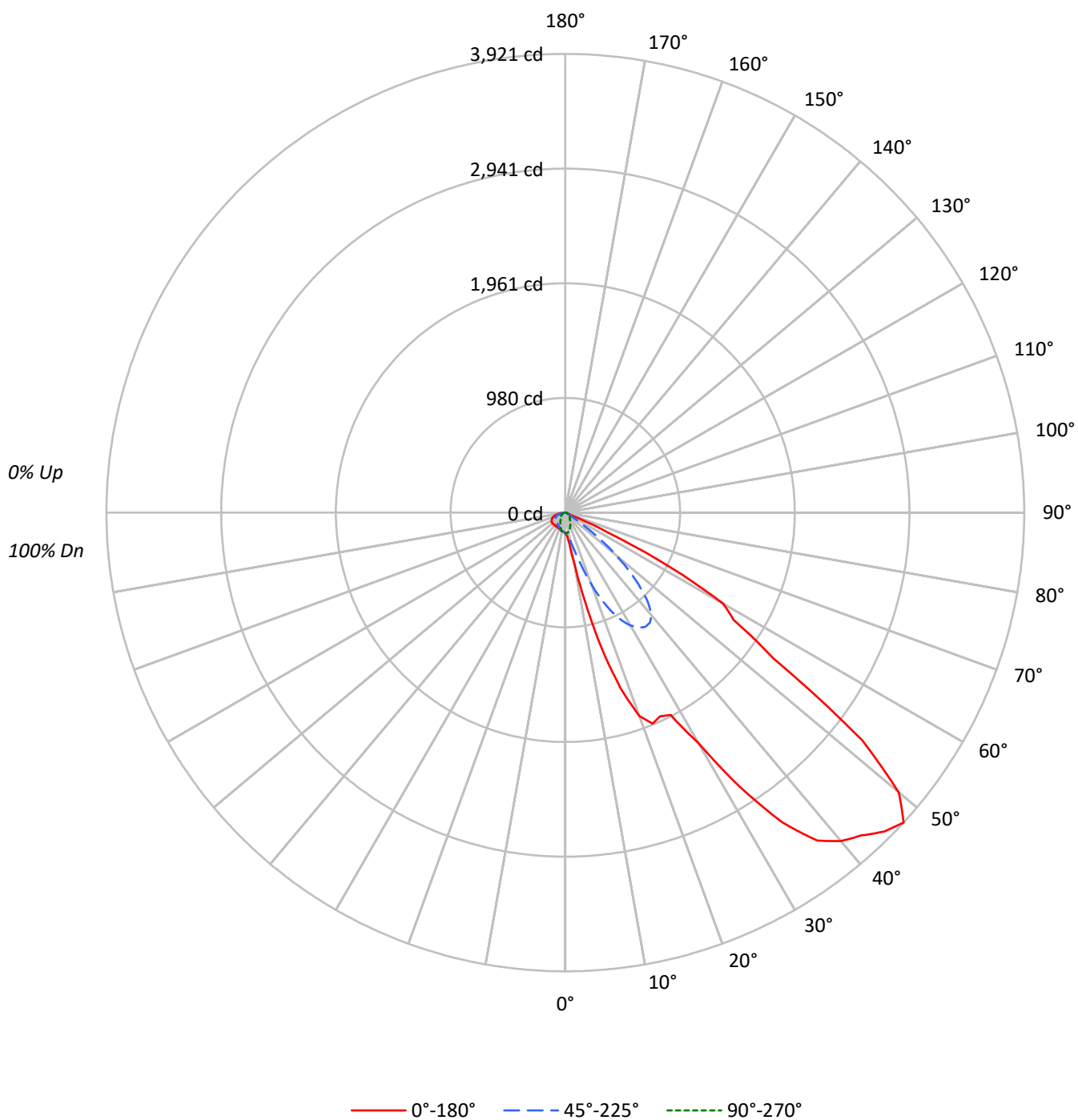
Lumens per Lamp: N/A
Luminaire Lumens: 2211.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	30260	30260	30260	30260	30260
5°	35994	33677	30047	28715	28387
10°	77489	41744	28715	27718	28051
15°	214510	68449	25871	26566	27583
20°	339151	120045	22396	25549	26941
25°	364718	176364	19231	24684	27212
30°	452698	221417	16705	24301	28100
35°	679365	250549	14465	24494	29708
40°	823923	257600	12882	25337	31340
45°	938630	220933	12568	26986	34415
50°	996221	152479	12780	29178	38368
55°	650816	61343	12611	31527	42427
60°	536749	10540	12503	34203	46707
65°	161864	5461	11655	36595	51347
70°	6748	5791	11531	37514	55793
75°	6321	6321	11445	38128	61019
80°	5653	5653	11406	37886	62483
85°	3754	7509	15018	37742	60467

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 999472 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.3	0.8
10°-20°	104.7	4.7
20°-30°	269.1	12.2
30°-40°	483.4	21.9
40°-50°	645.8	29.2
50°-60°	491.8	22.2
60°-70°	149.3	6.8
70°-80°	35.7	1.6
80°-90°	12.9	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°	392.1	17.7
0°-40°	875.6	39.6
0°-60°	2013.2	91.1
0°-90°	2211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2211.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	176	176	176	176	176	
5°	208	195	174	166	164	27
15°	1203	384	145	149	155	354
25°	1919	928	101	130	143	916
35°	3231	1192	69	116	141	1984
45°	3854	907	52	111	141	2947
55°	2168	204	42	105	141	2156
65°	397	13	29	90	126	550
75°	10	10	17	57	92	10
85°	2	4	8	19	31	3
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°	175.7	175.7	175.7	175.7	175.7	175.7	175.7	175.7	175.7	175.7	175.7
2.5°	187.2	187.2	187.2	187.2	187.2	187.2	185.2	185.2	185.2	181.4	177.6
5°	208.2	210.1	208.2	208.2	204.3	204.3	200.5	200.5	194.8	183.3	173.8
7.5°	273.1	271.2	269.3	261.6	255.9	242.5	236.8	227.3	210.1	183.3	170.0
10°	443.1	431.6	424.0	406.8	370.5	347.6	317.0	286.5	238.7	183.3	164.2
12.5°	769.6	767.7	744.8	687.5	635.9	565.3	490.8	416.3	294.1	179.5	156.6
15°	1203.1	1185.9	1153.5	1086.6	995.0	884.2	750.5	618.8	383.9	173.8	145.1
17.5°	1573.6	1552.6	1527.8	1460.9	1355.9	1216.5	1056.1	874.7	506.1	166.1	133.7
20°	1850.5	1837.2	1816.2	1762.7	1663.4	1537.3	1357.8	1138.2	655.0	156.6	122.2
22.5°	1951.7	1949.8	1953.7	1934.6	1884.9	1785.6	1613.7	1384.6	802.1	145.1	110.8
25°	1919.3	1917.4	1942.2	1967.0	1978.5	1938.4	1806.6	1583.2	928.1	135.6	101.2
27.5°	1949.8	1944.1	1932.6	1936.5	1968.9	1991.8	1930.7	1735.9	1037.0	122.2	91.7
30°	2276.4	2243.9	2192.4	2104.5	2039.6	2033.9	2007.1	1856.3	1113.4	108.9	84.0
32.5°	2786.3	2746.2	2652.6	2490.3	2335.6	2217.2	2133.2	1957.5	1166.8	95.5	74.5
35°	3231.3	3202.6	3093.8	2933.3	2711.8	2490.3	2337.5	2106.4	1191.7	84.0	68.8
37.5°	3533.0	3521.5	3414.6	3242.7	3017.4	2755.7	2553.3	2259.2	1185.9	70.7	63.0
40°	3664.8	3630.4	3540.6	3395.5	3168.2	2933.3	2719.5	2356.6	1145.8	57.3	57.3
42.5°	3743.1	3704.9	3607.5	3470.0	3246.5	2996.4	2738.5	2314.6	1050.4	45.8	55.4
45°	3853.8	3813.7	3685.8	3538.7	3313.4	3023.1	2664.1	2165.6	907.1	34.4	51.6
47.5°	3920.7	3893.9	3798.4	3651.4	3378.3	2984.9	2492.2	2026.2	748.6	26.7	49.7
50°	3718.2	3691.5	3620.8	3519.6	3336.3	2857.0	2341.3	1800.9	569.1	21.0	47.7
52.5°	3200.7	3223.6	3237.0	3265.6	3132.0	2570.5	2116.0	1621.4	383.9	17.2	43.9
55°	2167.5	2201.9	2240.1	2354.7	2511.3	2287.9	1879.2	1401.7	204.3	17.2	42.0
57.5°	1703.5	1692.0	1680.6	1672.9	1795.1	1886.8	1651.9	1121.0	87.8	17.2	38.2
60°	1558.3	1524.0	1501.0	1506.8	1567.9	1531.6	1308.2	731.4	30.6	17.2	36.3
62.5°	1021.7	1048.4	1100.0	1187.9	1145.8	983.5	760.1	290.3	15.3	17.2	32.5
65°	397.2	383.9	397.2	422.0	364.8	271.2	170.0	51.6	13.4	15.3	28.6
67.5°	53.5	47.7	36.3	22.9	21.0	19.1	15.3	13.4	13.4	15.3	26.7
70°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	11.5	11.5	13.4	22.9
72.5°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	13.4	19.1
75°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	11.5	17.2
77.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	9.5	13.4
80°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	7.6	11.5
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.7	5.7	7.6	9.5
85°	1.9	3.8	1.9	3.8	3.8	3.8	3.8	3.8	3.8	5.7	7.6
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	5.7	5.7
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°	175.7	175.7	175.7	175.7
2.5°	173.8	170.0	170.0	170.0
5°	170.0	166.1	166.1	164.2
7.5°	164.2	162.3	162.3	162.3
10°	160.4	158.5	160.4	160.4
12.5°	152.8	154.7	156.6	156.6
15°	145.1	149.0	152.8	154.7
17.5°	137.5	145.1	149.0	150.9
20°	129.9	139.4	145.1	147.0
22.5°	124.1	133.7	141.3	145.1
25°	116.5	129.9	139.4	143.2
27.5°	108.9	124.1	135.6	141.3
30°	103.1	122.2	135.6	141.3
32.5°	97.4	118.4	133.7	139.4
35°	93.6	116.5	133.7	141.3
37.5°	89.8	114.6	133.7	139.4
40°	87.8	112.7	133.7	139.4
42.5°	85.9	112.7	133.7	141.3
45°	82.1	110.8	133.7	141.3
47.5°	80.2	110.8	133.7	141.3
50°	78.3	108.9	133.7	143.2
52.5°	76.4	106.9	133.7	143.2
55°	72.6	105.0	131.8	141.3
57.5°	70.7	103.1	129.9	137.5
60°	66.8	99.3	126.0	135.6
62.5°	63.0	95.5	122.2	129.9
65°	57.3	89.8	116.5	126.0
67.5°	51.6	82.1	110.8	120.3
70°	45.8	74.5	103.1	110.8
72.5°	40.1	66.8	95.5	101.2
75°	34.4	57.3	84.0	91.7
77.5°	28.6	49.7	70.7	76.4
80°	21.0	38.2	57.3	63.0
82.5°	17.2	28.6	42.0	45.8
85°	11.5	19.1	26.7	30.6
87.5°	5.7	9.5	13.4	15.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)