

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: P1308516

Luminaire Tested: P3SQAS24R559030D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R559030D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

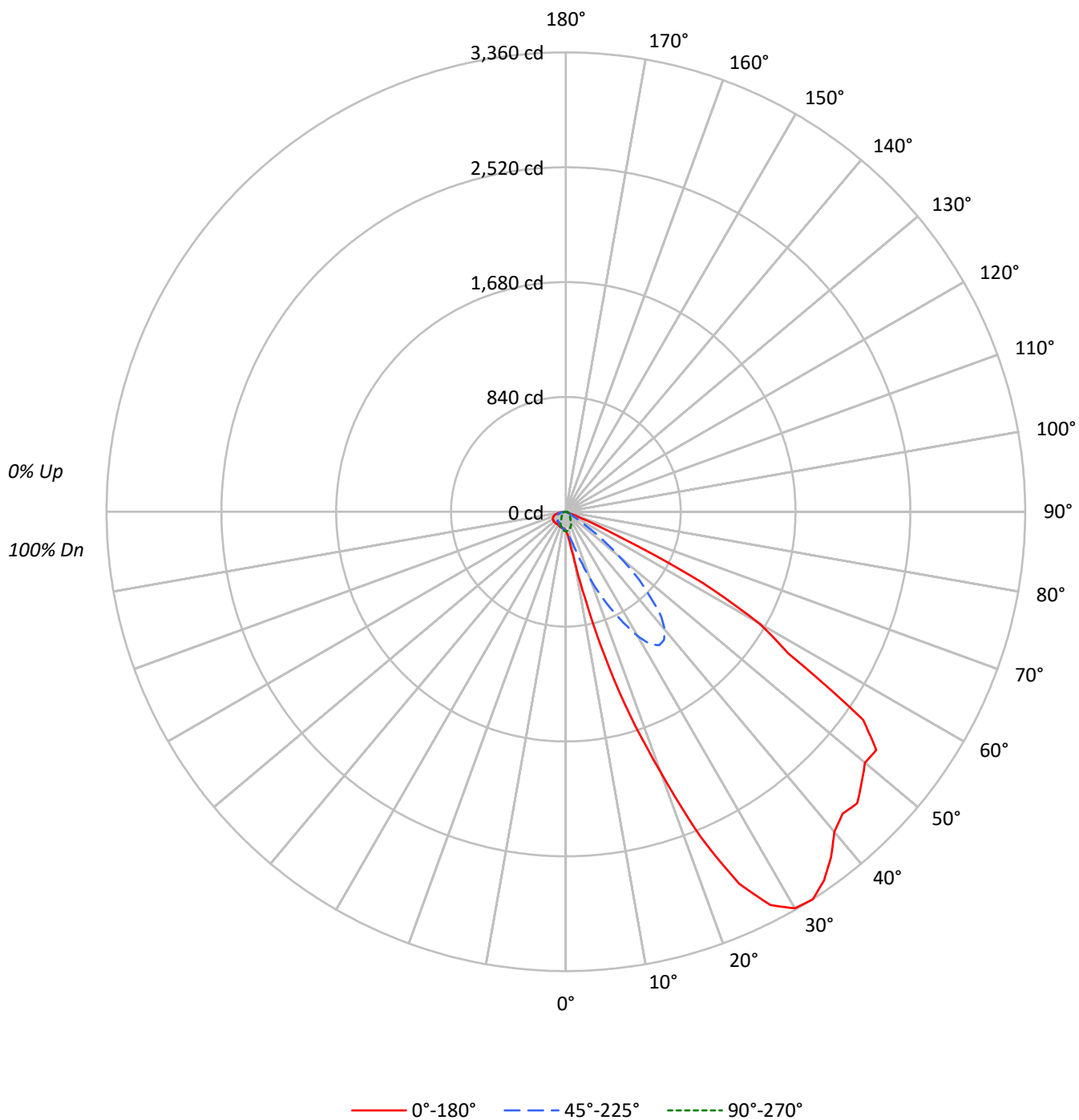
Lumens per Lamp: N/A
Luminaire Lumens: 2161.0 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	24008	24008	24008	24008	24008
5°	30704	28059	24100	22440	21783
10°	62449	35728	23381	21370	21370
15°	191670	54809	21788	20772	21449
20°	370583	95890	19592	20289	21352
25°	570365	149133	17045	19592	21416
30°	666001	208451	14040	19370	22014
35°	692085	250486	11648	19258	22875
40°	686827	252833	10724	20166	24888
45°	734308	209266	10230	21847	26962
50°	765318	138118	10235	23524	30196
55°	796893	60202	10329	25792	33239
60°	562961	13812	10506	28279	37476
65°	183626	4686	10106	30360	42015
70°	5791	4784	10574	32680	48089
75°	5057	5057	8917	34336	53366
80°	3769	5653	9422	34118	56830
85°	3754	7509	11263	33988	56515

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 809707 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.8	0.7
10°-20°	91.7	4.2
20°-30°	307.6	14.2
30°-40°	505.1	23.4
40°-50°	563.4	26.1
50°-60°	474.2	21.9
60°-70°	160.9	7.4
70°-80°	31.5	1.5
80°-90°	11.8	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°	414.1	19.2
0°-40°	919.2	42.5
0°-60°	1956.8	90.6
0°-90°	2161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2161.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	139	139	139	139	139	
5°	178	162	139	130	126	22
15°	1075	307	122	116	120	341
25°	3002	785	90	103	113	1349
35°	3292	1191	55	92	109	2044
45°	3015	859	42	90	111	2302
55°	2654	200	34	86	111	2161
65°	451	12	25	74	103	610
75°	8	8	13	52	80	8
85°	2	4	6	17	29	3
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4
2.5°	152.7	152.7	152.7	152.7	152.7	152.7	150.8	145.1	141.3	135.6	133.7
5°	177.6	177.6	177.6	175.7	175.7	171.8	162.3	148.9	139.4	131.7	129.8
7.5°	229.1	227.2	223.4	221.5	215.8	213.8	179.5	152.7	137.5	127.9	126.0
10°	357.1	353.2	347.5	326.5	307.4	294.0	204.3	154.7	133.7	124.1	122.2
12.5°	643.5	635.8	607.2	563.3	509.8	483.1	244.4	156.6	127.9	120.3	120.3
15°	1075.0	1065.4	1012.0	950.9	853.5	800.0	307.4	154.7	122.2	114.6	116.5
17.5°	1552.3	1525.6	1470.2	1390.0	1258.3	1195.3	401.0	150.8	114.6	110.7	114.6
20°	2022.0	2014.4	1922.7	1813.9	1651.6	1567.6	523.2	145.1	106.9	105.0	110.7
22.5°	2571.9	2539.5	2442.1	2325.6	2102.2	1991.5	654.9	137.5	99.3	99.3	106.9
25°	3001.5	2963.3	2887.0	2751.4	2539.5	2421.1	784.8	127.9	89.7	93.6	103.1
27.5°	3242.1	3198.2	3140.9	3024.4	2860.2	2755.2	914.6	116.5	80.2	87.8	99.3
30°	3349.0	3337.6	3295.6	3209.7	3058.8	2965.3	1048.2	103.1	70.6	82.1	97.4
32.5°	3360.5	3366.2	3349.0	3293.7	3179.1	3098.9	1147.5	91.6	63.0	78.3	93.6
35°	3291.8	3312.8	3324.2	3301.3	3226.8	3161.9	1191.4	78.3	55.4	74.5	91.6
37.5°	3184.8	3223.0	3261.2	3266.9	3221.1	3179.1	1180.0	66.8	51.6	72.6	91.6
40°	3055.0	3089.4	3167.6	3217.3	3202.0	3171.5	1124.6	55.4	47.7	68.7	89.7
42.5°	2995.8	3003.4	3087.5	3171.5	3167.6	3142.8	1027.2	43.9	43.9	68.7	89.7
45°	3014.9	2980.5	3035.9	3133.3	3127.6	3095.1	859.2	34.4	42.0	66.8	89.7
47.5°	2934.7	2887.0	2980.5	3095.1	3074.1	3026.4	710.3	24.8	40.1	64.9	87.8
50°	2856.4	2848.8	2921.3	2978.6	2950.0	2923.2	515.5	19.1	38.2	63.0	87.8
52.5°	2862.1	2848.8	2856.4	2854.5	2797.2	2768.6	353.2	15.3	36.3	61.1	87.8
55°	2654.0	2612.0	2571.9	2583.4	2587.2	2568.1	200.5	13.4	34.4	61.1	85.9
57.5°	1928.5	1917.0	1960.9	2085.0	2182.4	2193.9	97.4	13.4	32.5	59.2	84.0
60°	1634.4	1626.8	1628.7	1665.0	1716.5	1684.1	40.1	13.4	30.5	57.3	82.1
62.5°	1126.5	1201.0	1231.5	1315.6	1281.2	1235.4	15.3	15.3	28.6	53.5	80.2
65°	450.6	448.7	490.7	530.8	519.3	485.0	11.5	13.4	24.8	49.6	74.5
67.5°	105.0	95.5	82.1	70.6	59.2	47.7	11.5	13.4	22.9	45.8	70.6
70°	11.5	11.5	11.5	11.5	11.5	9.5	9.5	13.4	21.0	42.0	64.9
72.5°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	11.5	17.2	36.3	59.2
75°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	9.5	13.4	30.5	51.6
77.5°	5.7	5.7	5.7	7.6	5.7	7.6	7.6	9.5	11.5	24.8	43.9
80°	3.8	3.8	5.7	5.7	5.7	5.7	5.7	7.6	9.5	21.0	34.4
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	5.7	5.7	7.6	15.3	24.8
85°	1.9	1.9	1.9	1.9	1.9	3.8	3.8	5.7	5.7	11.5	17.2
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	5.7	5.7	7.6
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):

	157.5°	180°
0°	139.4	139.4
2.5°	131.7	131.7
5°	127.9	126.0
7.5°	124.1	124.1
10°	122.2	122.2
12.5°	120.3	122.2
15°	120.3	120.3
17.5°	116.5	118.4
20°	114.6	116.5
22.5°	112.7	114.6
25°	110.7	112.7
27.5°	108.8	110.7
30°	106.9	110.7
32.5°	105.0	108.8
35°	105.0	108.8
37.5°	105.0	110.7
40°	105.0	110.7
42.5°	105.0	110.7
45°	105.0	110.7
47.5°	105.0	110.7
50°	105.0	112.7
52.5°	105.0	112.7
55°	105.0	110.7
57.5°	103.1	110.7
60°	103.1	108.8
62.5°	101.2	106.9
65°	97.4	103.1
67.5°	93.6	101.2
70°	87.8	95.5
72.5°	82.1	87.8
75°	74.5	80.2
77.5°	64.9	68.7
80°	51.6	57.3
82.5°	40.1	43.9
85°	26.7	28.6
87.5°	11.5	13.4
90°	0.0	0.0

(END OF REPORT)