

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: P1306605

Luminaire Tested: P3SQAS05R459027DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R459027DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

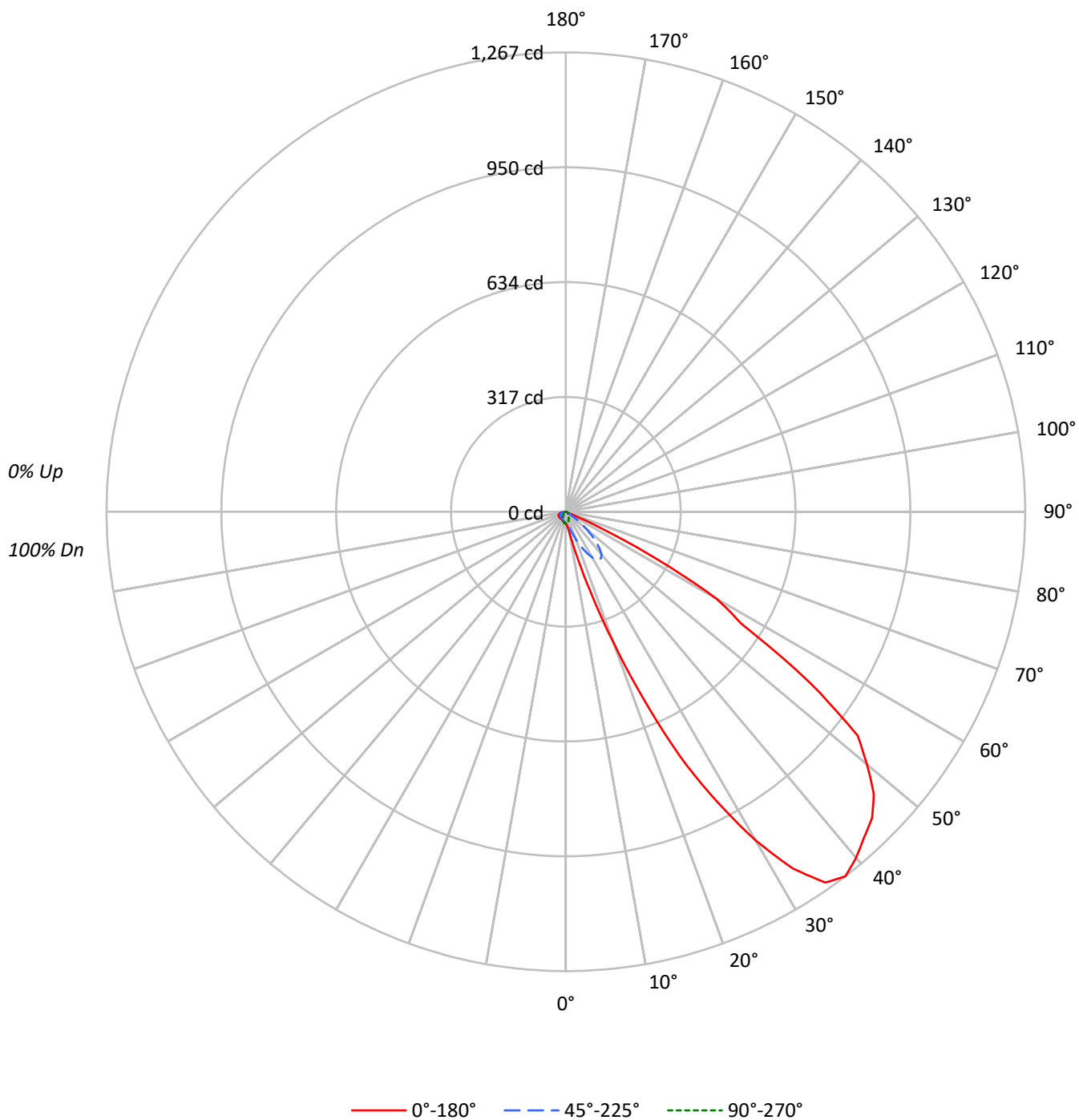
Lumens per Lamp: N/A
Luminaire Lumens: 566.0 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	107	104	100	97	99	97	94		96	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44
8	58	44	35	29	56	43	35	29	42	34	29		40	33	28		39
9	53	39	31	25	52	39	30	25	38	30	25		36	29	25		35
10	49	36	27	22	48	35	27	22	34	27	21		33	26	21		32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5632	5632	5632	5632	5632
5°	6708	6224	5584	5169	5169
10°	10720	7275	5229	4914	4914
15°	26691	9753	4761	4582	4761
20°	70286	14570	4105	4380	4637
25°	141133	21587	3553	4086	4542
30°	208053	28915	2884	3997	4653
35°	262428	33913	2460	3932	4815
40°	279992	34285	2203	4092	5148
45°	290908	28594	2046	4433	5578
50°	290464	19934	2009	4769	6270
55°	246875	8858	2102	5345	6876
60°	165919	1757	2101	5959	7888
65°	44011	774	2078	6479	8965
70°	1158	957	2115	7050	10121
75°	932	932	2196	7453	11512
80°	893	1389	2281	7934	12992
85°	988	1778	3754	8299	12844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 298411 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.6
10°-20°	16.0	2.8
20°-30°	65.8	11.6
30°-40°	138.8	24.5
40°-50°	171.2	30.2
50°-60°	128.3	22.7
60°-70°	33.0	5.8
70°-80°	6.8	1.2
80°-90°	2.8	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°	85.1	15.0
0°-40°	223.8	39.5
0°-60°	523.4	92.5
0°-90°	566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	566.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33	33	33	33	33	
5°	39	36	32	30	30	4
15°	150	55	27	26	27	55
25°	743	114	19	22	24	346
35°	1248	161	12	19	23	761
45°	1194	117	8	18	23	914
55°	822	30	7	18	23	710
65°	108	2	5	16	22	156
75°	1	1	3	11	17	2
85°	0	1	2	4	6	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
2.5°	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.1	33.7	32.7	31.8
5°	38.8	38.3	38.3	38.3	37.9	37.4	37.4	36.0	34.1	32.3	30.9
7.5°	45.8	45.8	45.4	44.4	44.0	43.0	42.1	38.3	34.1	31.3	29.5
10°	61.3	60.3	58.9	58.0	55.7	52.4	50.0	41.6	33.7	29.9	28.5
12.5°	91.7	93.5	88.9	84.2	77.6	71.6	64.1	47.2	33.7	28.5	27.1
15°	149.7	152.9	144.0	134.7	118.8	103.8	89.8	54.7	32.7	26.7	25.3
17.5°	244.6	248.8	233.8	211.9	187.1	157.1	131.4	65.0	31.8	24.8	23.9
20°	383.5	383.0	354.0	326.4	278.7	234.8	186.6	79.5	30.4	22.4	22.4
22.5°	554.2	556.1	520.5	470.9	403.1	332.5	255.8	96.3	28.5	20.6	21.0
25°	742.7	726.8	684.7	624.3	537.8	440.1	339.1	113.6	26.7	18.7	19.6
27.5°	899.8	884.4	836.2	764.6	671.6	555.6	423.7	130.9	24.3	16.8	18.2
30°	1046.2	1026.5	968.5	887.6	776.8	651.5	503.2	145.4	21.5	14.5	16.8
32.5°	1166.8	1149.1	1083.1	989.1	868.5	733.8	570.6	156.7	18.7	13.1	15.9
35°	1248.2	1230.0	1169.2	1065.8	934.4	793.6	625.3	161.3	16.4	11.7	15.4
37.5°	1266.9	1257.1	1213.6	1116.8	979.8	832.0	660.4	159.9	13.6	10.8	14.5
40°	1245.4	1247.7	1227.2	1146.7	1004.1	848.4	674.9	152.5	11.2	9.8	14.0
42.5°	1217.8	1223.9	1222.5	1158.9	1014.4	849.3	668.8	137.5	8.9	8.9	13.6
45°	1194.4	1200.5	1208.9	1153.7	1007.4	837.1	649.6	117.4	6.5	8.4	13.6
47.5°	1151.9	1158.4	1170.6	1112.6	971.8	805.8	615.0	95.4	4.7	8.0	13.1
50°	1084.1	1087.3	1084.1	1019.1	903.5	755.3	558.9	74.4	3.3	7.5	13.1
52.5°	1014.4	1007.8	980.7	898.4	795.0	675.3	488.2	52.8	2.3	7.0	12.6
55°	822.2	811.9	791.8	741.3	682.3	577.1	394.7	29.5	2.3	7.0	12.2
57.5°	572.9	578.5	585.5	575.2	548.1	454.6	299.8	13.1	2.3	6.5	12.2
60°	481.7	477.0	477.5	470.9	426.0	331.6	206.2	5.1	2.3	6.1	11.7
62.5°	287.6	290.9	297.0	298.4	253.9	185.2	108.0	2.3	2.3	5.6	11.2
65°	108.0	113.2	99.1	86.1	68.3	50.0	25.3	1.9	2.8	5.1	10.3
67.5°	3.3	3.7	4.7	4.2	4.2	3.7	2.8	1.9	2.8	4.7	9.8
70°	2.3	2.3	2.3	2.3	2.3	1.9	1.9	1.9	2.3	4.2	8.9
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.3	3.7	8.0
75°	1.4	1.9	1.4	1.4	1.4	1.4	1.4	1.4	2.3	3.3	6.5
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	2.8	5.6
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.9	2.3	4.7
82.5°	0.9	0.9	0.9	0.5	0.9	0.9	0.9	0.9	1.9	1.9	3.7
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.4	1.9	2.3
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.9	1.4	1.4	1.4
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):

	135°	157.5°	180°
0°	32.7	32.7	32.7
2.5°	30.9	30.9	30.9
5°	29.9	29.9	29.9
7.5°	29.0	29.0	29.0
10°	28.1	28.1	28.1
12.5°	27.1	27.1	27.6
15°	25.7	26.7	26.7
17.5°	24.8	25.7	26.2
20°	23.9	24.8	25.3
22.5°	22.4	23.9	24.8
25°	21.5	23.4	23.9
27.5°	20.6	22.9	23.9
30°	20.1	22.4	23.4
32.5°	19.2	22.0	22.9
35°	18.7	22.0	22.9
37.5°	18.7	21.5	22.9
40°	18.2	21.5	22.9
42.5°	18.2	21.5	22.9
45°	18.2	21.5	22.9
47.5°	17.8	21.5	23.4
50°	17.8	22.0	23.4
52.5°	17.8	22.0	23.4
55°	17.8	22.0	22.9
57.5°	17.3	21.5	22.9
60°	17.3	21.5	22.9
62.5°	16.4	21.0	22.4
65°	15.9	20.6	22.0
67.5°	15.0	20.1	21.0
70°	14.0	18.7	20.1
72.5°	12.6	17.8	19.2
75°	11.2	16.4	17.3
77.5°	9.8	14.5	15.4
80°	8.0	12.2	13.1
82.5°	6.1	9.4	9.8
85°	4.2	6.1	6.5
87.5°	1.9	2.8	3.3
90°	0.0	0.0	0.0

(END OF REPORT)