

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: P1310325

Luminaire Tested: P3SQAS13R709040DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R709040DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

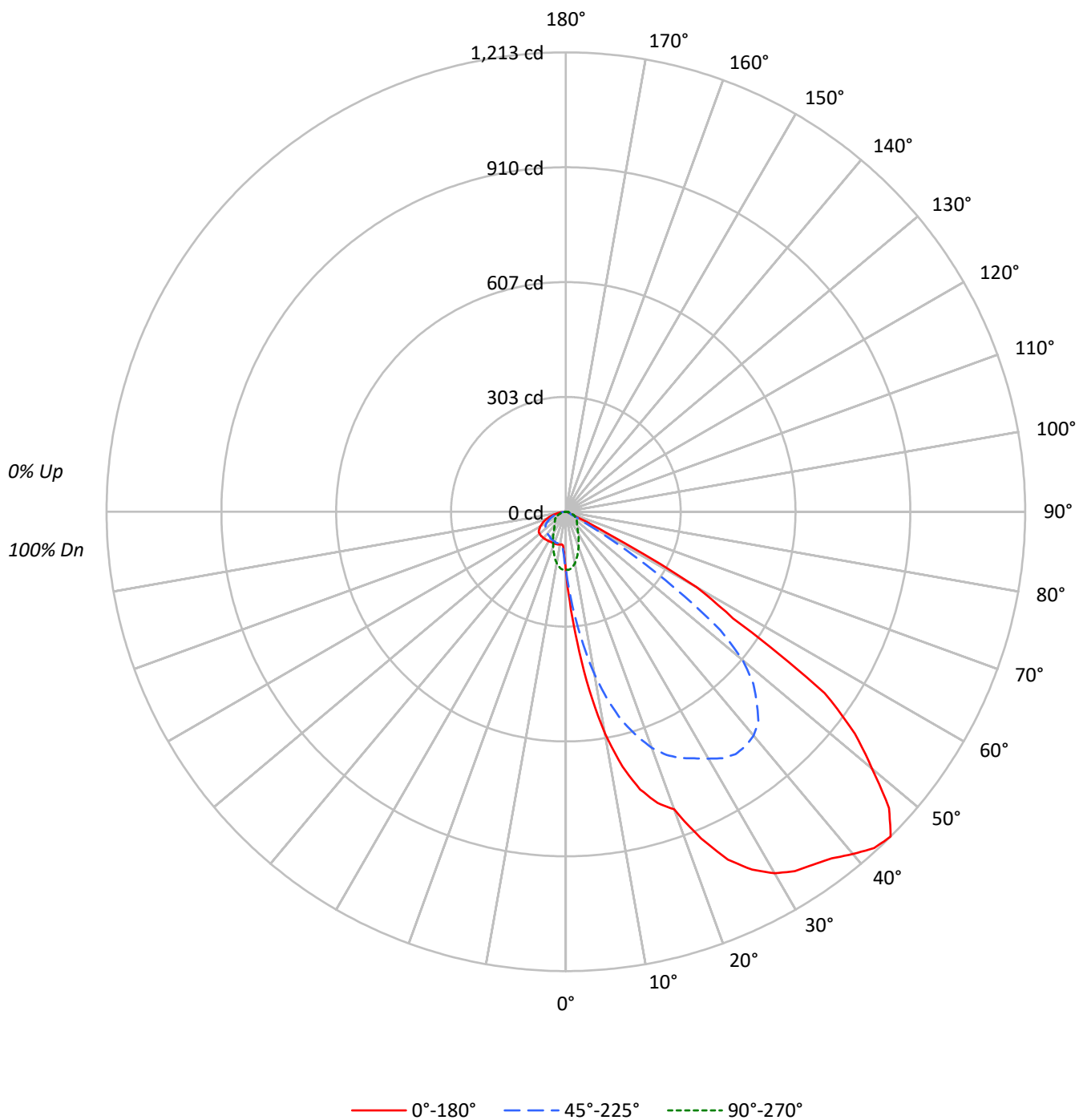
Lumens per Lamp: N/A
Luminaire Lumens: 1048.0 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75		
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54		
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31		
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28		
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	26298	26298	26298	26298	26298
5°	59834	47905	26036	16441	15369
10°	103686	76073	24133	14987	15354
15°	135346	101594	21075	15280	15851
20°	153310	121493	18016	15523	16476
25°	192535	136306	15107	15696	16893
30°	219170	149706	12886	16009	17878
35°	239175	164222	11206	16273	18901
40°	265154	173472	10342	16929	20459
45°	295413	173682	10181	17829	22164
50°	282935	163331	10074	18782	24087
55°	250538	105812	10359	19787	26063
60°	137227	22699	10437	20184	27005
65°	9780	5542	10229	20009	27263
70°	4733	5287	9467	18933	26335
75°	4192	5590	9050	18099	24354
80°	4166	5157	8331	16563	22811
85°	4150	6126	8299	14425	20748

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 295413 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	1.9
10°-20°	85.2	8.1
20°-30°	163.4	15.6
30°-40°	231.1	22.0
40°-50°	261.4	24.9
50°-60°	207.0	19.8
60°-70°	55.8	5.3
70°-80°	18.5	1.8
80°-90°	5.7	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°	268.5	25.6
0°-40°	499.6	47.7
0°-60°	968.0	92.4
0°-90°	1048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1048.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	153	153	153	153	153	
5°	346	277	151	95	89	41
15°	759	570	118	86	89	214
25°	1013	717	80	83	89	464
35°	1138	781	53	77	90	716
45°	1213	713	42	73	91	907
55°	834	352	34	66	87	677
65°	24	14	25	49	67	87
75°	6	8	14	27	37	7
85°	2	3	4	7	10	2
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°	152.7	152.7	152.7	152.7	152.7	152.7	152.7	152.7	152.7	152.7	152.7
2.5°	237.3	237.3	236.3	232.1	230.0	224.8	220.6	209.1	180.9	153.7	131.7
5°	346.1	351.3	344.0	343.0	336.7	327.3	321.0	277.1	209.1	150.6	112.9
7.5°	474.7	476.8	474.7	464.2	454.8	439.1	424.5	355.5	237.3	145.3	99.3
10°	592.9	589.7	583.4	576.1	562.5	545.8	520.7	435.0	264.5	138.0	91.0
12.5°	689.0	688.0	680.7	673.4	656.6	634.7	609.6	507.1	287.5	128.6	86.8
15°	759.1	759.1	751.8	743.4	727.7	710.0	681.7	569.8	306.4	118.2	82.6
17.5°	806.2	804.1	798.8	792.6	780.0	762.2	740.3	620.0	318.9	107.7	81.6
20°	836.5	835.4	831.2	821.8	811.4	797.8	777.9	662.9	324.1	98.3	80.5
22.5°	933.7	925.3	909.7	889.8	864.7	832.3	805.1	695.3	322.0	87.8	78.4
25°	1013.2	1010.0	993.3	969.3	935.8	894.0	849.0	717.3	311.6	79.5	76.3
27.5°	1065.5	1060.2	1044.5	1018.4	982.9	942.1	900.3	734.0	296.9	72.1	73.2
30°	1102.1	1098.9	1083.2	1054.0	1017.4	972.4	929.5	752.8	277.1	64.8	70.1
32.5°	1125.1	1121.9	1106.2	1080.1	1044.5	997.5	948.4	771.6	253.0	58.6	66.9
35°	1137.6	1134.5	1116.7	1093.7	1060.2	1014.2	961.9	781.1	223.8	53.3	63.8
37.5°	1153.3	1147.0	1123.0	1094.7	1061.3	1018.4	966.1	780.0	194.5	49.1	61.7
40°	1179.4	1162.7	1128.2	1090.6	1056.0	1013.2	963.0	771.6	162.1	46.0	59.6
42.5°	1204.5	1180.5	1129.2	1084.3	1045.6	1003.8	951.5	752.8	126.5	43.9	58.6
45°	1212.9	1177.3	1114.6	1069.6	1033.0	990.2	935.8	713.1	85.7	41.8	56.5
47.5°	1157.5	1131.3	1079.1	1045.6	1011.1	969.3	912.8	671.3	49.1	39.7	54.4
50°	1056.0	1039.3	1010.0	989.1	970.3	941.0	885.6	609.6	29.3	37.6	52.3
52.5°	961.9	956.7	935.8	919.1	908.6	895.0	844.8	514.4	24.0	36.6	50.2
55°	834.4	817.7	812.4	806.2	828.1	827.1	759.1	352.4	23.0	34.5	48.1
57.5°	523.8	531.2	558.3	608.5	668.1	702.6	700.5	188.2	22.0	32.4	45.0
60°	398.4	397.3	405.7	426.6	470.5	519.7	565.7	65.9	20.9	30.3	42.9
62.5°	119.2	122.3	147.4	216.4	259.3	320.0	291.7	15.7	19.9	27.2	38.7
65°	24.0	25.1	25.1	28.2	34.5	52.3	63.8	13.6	18.8	25.1	35.6
67.5°	10.5	10.5	10.5	11.5	11.5	13.6	11.5	12.5	16.7	22.0	31.4
70°	9.4	9.4	9.4	9.4	9.4	9.4	10.5	10.5	14.6	18.8	27.2
72.5°	7.3	7.3	7.3	8.4	8.4	8.4	8.4	9.4	12.5	15.7	23.0
75°	6.3	6.3	6.3	6.3	7.3	7.3	7.3	8.4	10.5	13.6	18.8
77.5°	5.2	5.2	5.2	5.2	5.2	6.3	6.3	6.3	8.4	10.5	15.7
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.2	6.3	8.4	11.5
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2	5.2	6.3	8.4
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1	4.2	5.2
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1	3.1
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°	152.7	152.7	152.7
2.5°	116.1	109.8	106.7
5°	95.1	89.9	88.9
7.5°	87.8	86.8	86.8
10°	85.7	86.8	87.8
12.5°	85.7	87.8	88.9
15°	85.7	87.8	88.9
17.5°	85.7	87.8	88.9
20°	84.7	87.8	89.9
22.5°	83.6	87.8	88.9
25°	82.6	87.8	88.9
27.5°	81.6	86.8	88.9
30°	80.5	86.8	89.9
32.5°	78.4	86.8	89.9
35°	77.4	86.8	89.9
37.5°	76.3	86.8	91.0
40°	75.3	86.8	91.0
42.5°	74.2	86.8	91.0
45°	73.2	85.7	91.0
47.5°	71.1	85.7	91.0
50°	70.1	84.7	89.9
52.5°	68.0	83.6	89.9
55°	65.9	81.6	86.8
57.5°	62.7	78.4	82.6
60°	58.6	74.2	78.4
62.5°	53.3	69.0	72.1
65°	49.1	62.7	66.9
67.5°	42.9	55.4	59.6
70°	37.6	48.1	52.3
72.5°	32.4	40.8	45.0
75°	27.2	33.5	36.6
77.5°	20.9	27.2	29.3
80°	16.7	20.9	23.0
82.5°	11.5	14.6	15.7
85°	7.3	9.4	10.5
87.5°	3.1	4.2	4.2
90°	0.0	0.0	0.0

(END OF REPORT)