

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: P1315437

Luminaire Tested: P3SQAS13R709740DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315437
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: P3SQAS13R709740DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

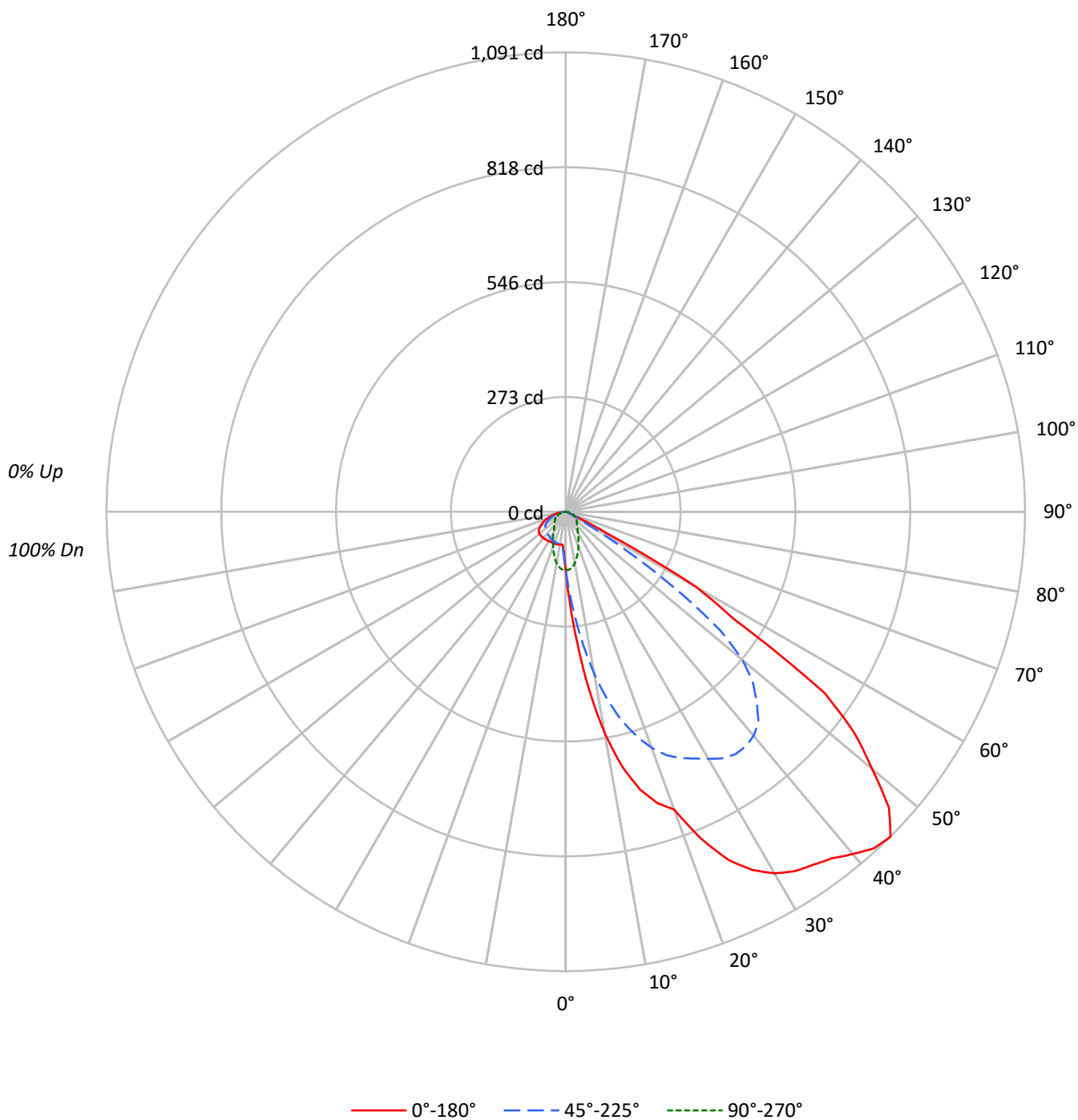
Lumens per Lamp: N/A
Luminaire Lumens: 943.0 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1315437

CATALOG NUMBER: P3SQAS13R709740DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1315437

CATALOG NUMBER: P3SQAS13R709740DE010 E3SQCA451MW

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°	23663	23663	23663	23663	23663
5°	53835	43099	23425	14799	13830
10°	93298	68448	21720	13483	13815
15°	121778	91431	18953	13747	14264
20°	137951	109324	16202	13966	14827
25°	173247	122643	13587	14119	15202
30°	197195	134712	11594	14398	16088
35°	215207	147760	10092	14633	17009
40°	238602	156093	9308	15220	18413
45°	265821	156268	9158	16051	19948
50°	254588	146960	9083	16880	21676
55°	225436	95213	9308	17805	23450
60°	123484	20426	9403	18152	24318
65°	8802	4972	9210	18012	24532
70°	4280	4733	8510	17070	23667
75°	3726	4991	8118	16303	21892
80°	3769	4661	7438	14976	20530
85°	3754	5533	7509	13042	18575

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 265821 cd/sqm

TEST NUMBER: P1315437

CATALOG NUMBER: P3SQAS13R709740DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.9	1.9
10°-20°	76.6	8.1
20°-30°	147.0	15.6
30°-40°	207.9	22.0
40°-50°	235.2	24.9
50°-60°	186.3	19.8
60°-70°	50.2	5.3
70°-80°	16.7	1.8
80°-90°	5.1	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°	241.6	25.6
0°-40°	449.5	47.7
0°-60°	871.0	92.4
0°-90°	943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	943.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	137	137	137	137	137	
5°	311	249	136	86	80	37
15°	683	513	106	77	80	192
25°	912	645	72	74	80	418
35°	1024	703	48	70	81	645
45°	1091	642	38	66	82	816
55°	751	317	31	59	78	609
65°	22	12	23	44	60	78
75°	6	8	12	24	33	6
85°	2	3	4	7	9	2
90°	0	0	0	0	0	

TEST NUMBER: P1315437

CATALOG NUMBER: P3SQAS13R709740DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4
2.5°	213.6	213.6	212.6	208.9	207.0	202.3	198.5	188.2	162.8	138.3	118.5
5°	311.4	316.1	309.5	308.6	302.9	294.5	288.8	249.3	188.2	135.5	101.6
7.5°	427.1	429.0	427.1	417.7	409.3	395.1	382.0	319.9	213.6	130.8	89.4
10°	533.5	530.6	525.0	518.4	506.2	491.1	468.5	391.4	238.0	124.2	81.9
12.5°	620.0	619.1	612.5	605.9	590.8	571.1	548.5	456.3	258.7	115.7	78.1
15°	683.0	683.0	676.5	668.9	654.8	638.8	613.4	512.8	275.7	106.3	74.3
17.5°	725.4	723.5	718.8	713.2	701.9	685.9	666.1	557.9	287.0	96.9	73.4
20°	752.7	751.7	748.0	739.5	730.1	717.9	700.0	596.5	291.7	88.4	72.4
22.5°	840.2	832.6	818.5	800.6	778.1	748.9	724.4	625.7	289.8	79.0	70.6
25°	911.7	908.8	893.8	872.2	842.0	804.4	764.0	645.4	280.4	71.5	68.7
27.5°	958.7	954.0	939.9	916.4	884.4	847.7	810.1	660.5	267.2	64.9	65.9
30°	991.6	988.8	974.7	948.4	915.4	875.0	836.4	677.4	249.3	58.3	63.0
32.5°	1012.3	1009.5	995.4	971.9	939.9	897.6	853.3	694.3	227.7	52.7	60.2
35°	1023.6	1020.8	1004.8	984.1	954.0	912.6	865.6	702.8	201.3	48.0	57.4
37.5°	1037.7	1032.1	1010.5	985.1	954.9	916.4	869.3	701.9	175.0	44.2	55.5
40°	1061.3	1046.2	1015.2	981.3	950.2	911.7	866.5	694.3	145.8	41.4	53.6
42.5°	1083.8	1062.2	1016.1	975.6	940.8	903.2	856.2	677.4	113.8	39.5	52.7
45°	1091.4	1059.4	1002.9	962.5	929.5	891.0	842.0	641.6	77.1	37.6	50.8
47.5°	1041.5	1018.0	970.9	940.8	909.8	872.2	821.3	604.0	44.2	35.8	48.9
50°	950.2	935.2	908.8	890.0	873.1	846.7	796.9	548.5	26.3	33.9	47.0
52.5°	865.6	860.9	842.0	827.0	817.6	805.4	760.2	462.9	21.6	32.9	45.2
55°	750.8	735.7	731.0	725.4	745.1	744.2	683.0	317.1	20.7	31.0	43.3
57.5°	471.4	477.9	502.4	547.6	601.2	632.2	630.4	169.3	19.8	29.2	40.5
60°	358.5	357.5	365.0	383.9	423.4	467.6	509.0	59.3	18.8	27.3	38.6
62.5°	107.3	110.1	132.7	194.8	233.3	287.9	262.5	14.1	17.9	24.5	34.8
65°	21.6	22.6	22.6	25.4	31.0	47.0	57.4	12.2	16.9	22.6	32.0
67.5°	9.4	9.4	9.4	10.3	10.3	12.2	10.3	11.3	15.1	19.8	28.2
70°	8.5	8.5	8.5	8.5	8.5	8.5	9.4	9.4	13.2	16.9	24.5
72.5°	6.6	6.6	6.6	7.5	7.5	7.5	7.5	8.5	11.3	14.1	20.7
75°	5.6	5.6	5.6	5.6	6.6	6.6	6.6	7.5	9.4	12.2	16.9
77.5°	4.7	4.7	4.7	4.7	4.7	5.6	5.6	5.6	7.5	9.4	14.1
80°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.7	5.6	7.5	10.3
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.8	4.7	5.6	7.5
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8	3.8	4.7
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1315437

CATALOG NUMBER: P3SQAS13R709740DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	137.4	137.4	137.4
2.5°	104.4	98.8	96.0
5°	85.6	80.9	80.0
7.5°	79.0	78.1	78.1
10°	77.1	78.1	79.0
12.5°	77.1	79.0	80.0
15°	77.1	79.0	80.0
17.5°	77.1	79.0	80.0
20°	76.2	79.0	80.9
22.5°	75.3	79.0	80.0
25°	74.3	79.0	80.0
27.5°	73.4	78.1	80.0
30°	72.4	78.1	80.9
32.5°	70.6	78.1	80.9
35°	69.6	78.1	80.9
37.5°	68.7	78.1	81.9
40°	67.7	78.1	81.9
42.5°	66.8	78.1	81.9
45°	65.9	77.1	81.9
47.5°	64.0	77.1	81.9
50°	63.0	76.2	80.9
52.5°	61.2	75.3	80.9
55°	59.3	73.4	78.1
57.5°	56.4	70.6	74.3
60°	52.7	66.8	70.6
62.5°	48.0	62.1	64.9
65°	44.2	56.4	60.2
67.5°	38.6	49.9	53.6
70°	33.9	43.3	47.0
72.5°	29.2	36.7	40.5
75°	24.5	30.1	32.9
77.5°	18.8	24.5	26.3
80°	15.1	18.8	20.7
82.5°	10.3	13.2	14.1
85°	6.6	8.5	9.4
87.5°	2.8	3.8	3.8
90°	0.0	0.0	0.0

(END OF REPORT)