

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: P1312666

Luminaire Tested: P3SQAS17R709727DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312666
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: P3SQAS17R709727DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

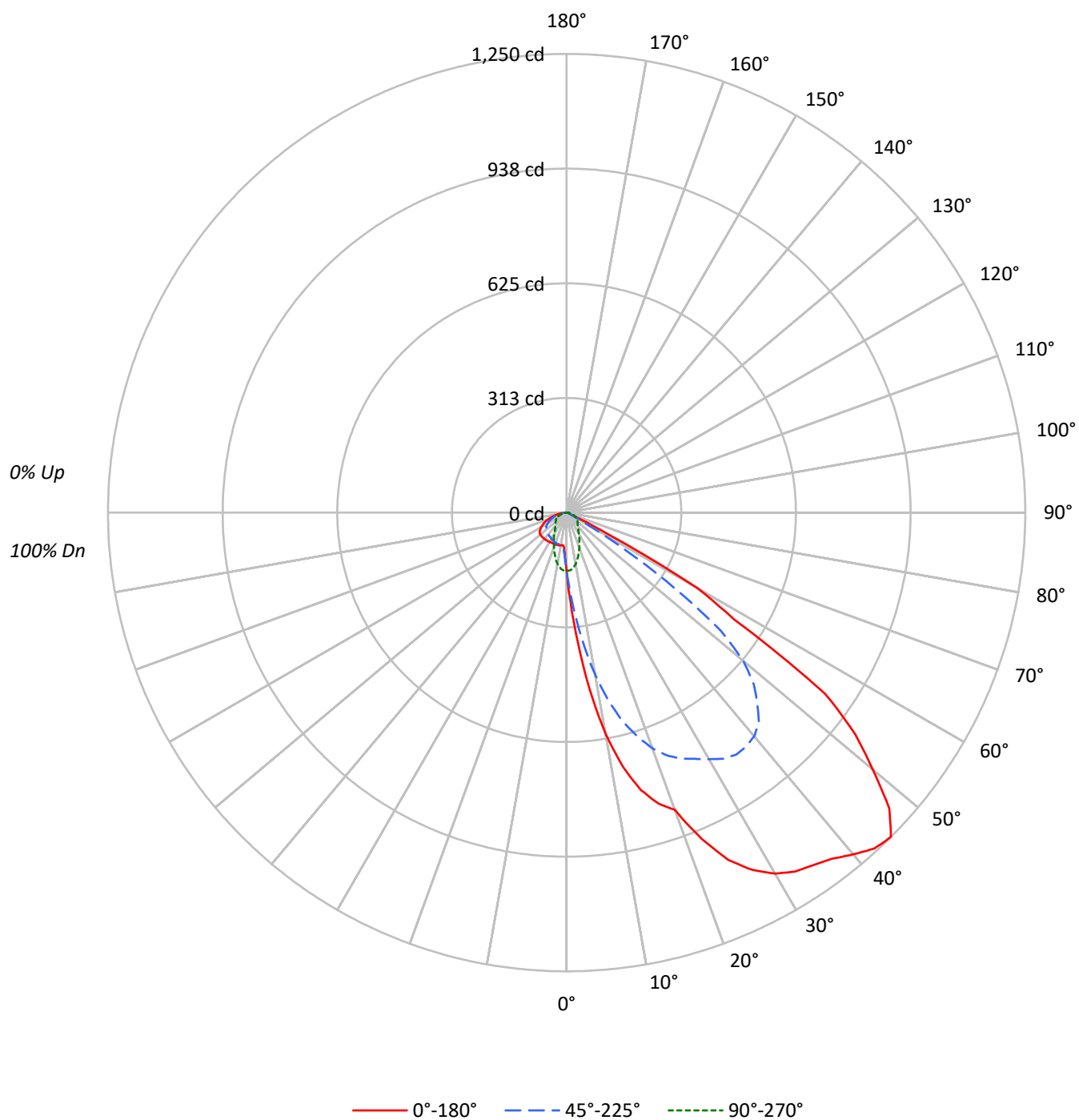
Lumens per Lamp: N/A
Luminaire Lumens: 1080.0 lumens
Efficiency: N/A
Efficacy: 50.9 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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	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°	27091	27091	27091	27091	27091
5°	61666	49357	26831	16960	15836
10°	106851	78381	24868	15459	15827
15°	139483	104697	21717	15762	16332
20°	157983	125195	18566	16000	16990
25°	198407	140468	15563	16171	17406
30°	225852	154280	13284	16506	18435
35°	246470	169226	11563	16757	19490
40°	273247	178777	10657	17446	21066
45°	304425	178992	10497	18364	22822
50°	291589	168314	10396	19345	24837
55°	258194	109025	10689	20388	26843
60°	141395	23388	10747	20770	27831
65°	10106	5705	10555	20620	28118
70°	4884	5438	9769	19538	27141
75°	4325	5723	9316	18632	25086
80°	4265	5356	8529	17059	23505
85°	4347	6323	8497	14820	21341

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 304425 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.5	1.9
10°-20°	87.8	8.1
20°-30°	168.4	15.6
30°-40°	238.1	22.0
40°-50°	269.4	24.9
50°-60°	213.3	19.8
60°-70°	57.5	5.3
70°-80°	19.1	1.8
80°-90°	5.8	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°	276.7	25.6
0°-40°	514.8	47.7
0°-60°	997.5	92.4
0°-90°	1080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1080.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	157	157	157	157	157	
5°	357	286	155	98	92	42
15°	782	587	122	88	92	220
25°	1044	739	82	85	92	479
35°	1172	805	55	80	93	738
45°	1250	735	43	75	94	935
55°	860	363	36	68	89	698
65°	25	14	26	51	69	89
75°	6	9	14	28	38	7
85°	2	3	4	8	11	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°	157.3	157.3	157.3	157.3	157.3	157.3	157.3	157.3	157.3	157.3	157.3
2.5°	244.6	244.6	243.5	239.2	237.1	231.7	227.4	215.5	186.4	158.4	135.8
5°	356.7	362.0	354.5	353.4	347.0	337.3	330.8	285.5	215.5	155.2	116.4
7.5°	489.2	491.3	489.2	478.4	468.7	452.6	437.5	366.4	244.6	149.8	102.4
10°	611.0	607.7	601.3	593.7	579.7	562.5	536.6	448.2	272.6	142.2	93.7
12.5°	710.1	709.0	701.5	693.9	676.7	654.1	628.2	522.6	296.3	132.5	89.4
15°	782.3	782.3	774.7	766.1	750.0	731.6	702.5	587.2	315.7	121.8	85.1
17.5°	830.8	828.6	823.2	816.8	803.8	785.5	762.9	639.0	328.6	111.0	84.0
20°	862.0	860.9	856.6	846.9	836.2	822.1	801.7	683.1	334.0	101.3	83.0
22.5°	962.2	953.6	937.4	917.0	891.1	857.7	829.7	716.5	331.9	90.5	80.8
25°	1044.1	1040.9	1023.6	998.9	964.4	921.3	874.9	739.2	321.1	81.9	78.7
27.5°	1098.0	1092.6	1076.4	1049.5	1012.9	970.8	927.7	756.4	306.0	74.3	75.4
30°	1135.7	1132.5	1116.3	1086.1	1048.4	1002.1	957.9	775.8	285.5	66.8	72.2
32.5°	1159.4	1156.2	1140.0	1113.1	1076.4	1028.0	977.3	795.2	260.8	60.3	69.0
35°	1172.3	1169.1	1150.8	1127.1	1092.6	1045.2	991.3	804.9	230.6	55.0	65.7
37.5°	1188.5	1182.0	1157.3	1128.2	1093.7	1049.5	995.6	803.8	200.4	50.6	63.6
40°	1215.4	1198.2	1162.6	1123.9	1088.3	1044.1	992.4	795.2	167.0	47.4	61.4
42.5°	1241.3	1216.5	1163.7	1117.4	1077.5	1034.4	980.5	775.8	130.4	45.3	60.3
45°	1249.9	1213.3	1148.6	1102.3	1064.6	1020.4	964.4	734.9	88.4	43.1	58.2
47.5°	1192.8	1165.9	1112.0	1077.5	1042.0	998.9	940.7	691.8	50.6	40.9	56.0
50°	1088.3	1071.1	1040.9	1019.3	999.9	969.8	912.7	628.2	30.2	38.8	53.9
52.5°	991.3	985.9	964.4	947.1	936.4	922.4	870.6	530.1	24.8	37.7	51.7
55°	859.9	842.6	837.2	830.8	853.4	852.3	782.3	363.1	23.7	35.6	49.6
57.5°	539.8	547.4	575.4	627.1	688.5	724.1	721.9	194.0	22.6	33.4	46.3
60°	410.5	409.5	418.1	439.6	484.9	535.5	582.9	67.9	21.6	31.2	44.2
62.5°	122.8	126.1	151.9	223.0	267.2	329.7	300.6	16.2	20.5	28.0	39.9
65°	24.8	25.9	25.9	29.1	35.6	53.9	65.7	14.0	19.4	25.9	36.6
67.5°	10.8	10.8	10.8	11.9	11.9	14.0	11.9	12.9	17.2	22.6	32.3
70°	9.7	9.7	9.7	9.7	9.7	9.7	10.8	10.8	15.1	19.4	28.0
72.5°	7.5	7.5	7.5	8.6	8.6	8.6	8.6	9.7	12.9	16.2	23.7
75°	6.5	6.5	6.5	6.5	7.5	7.5	7.5	8.6	10.8	14.0	19.4
77.5°	5.4	5.4	5.4	5.4	5.4	6.5	6.5	6.5	8.6	10.8	16.2
80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.4	6.5	8.6	11.9
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3	5.4	6.5	8.6
85°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.2	3.2	4.3	5.4
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2	3.2
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°	157.3	157.3	157.3
2.5°	119.6	113.1	109.9
5°	98.1	92.7	91.6
7.5°	90.5	89.4	89.4
10°	88.4	89.4	90.5
12.5°	88.4	90.5	91.6
15°	88.4	90.5	91.6
17.5°	88.4	90.5	91.6
20°	87.3	90.5	92.7
22.5°	86.2	90.5	91.6
25°	85.1	90.5	91.6
27.5°	84.0	89.4	91.6
30°	83.0	89.4	92.7
32.5°	80.8	89.4	92.7
35°	79.7	89.4	92.7
37.5°	78.7	89.4	93.7
40°	77.6	89.4	93.7
42.5°	76.5	89.4	93.7
45°	75.4	88.4	93.7
47.5°	73.3	88.4	93.7
50°	72.2	87.3	92.7
52.5°	70.0	86.2	92.7
55°	67.9	84.0	89.4
57.5°	64.7	80.8	85.1
60°	60.3	76.5	80.8
62.5°	55.0	71.1	74.3
65°	50.6	64.7	69.0
67.5°	44.2	57.1	61.4
70°	38.8	49.6	53.9
72.5°	33.4	42.0	46.3
75°	28.0	34.5	37.7
77.5°	21.6	28.0	30.2
80°	17.2	21.6	23.7
82.5°	11.9	15.1	16.2
85°	7.5	9.7	10.8
87.5°	3.2	4.3	4.3
90°	0.0	0.0	0.0

(END OF REPORT)