

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: P1313479

Luminaire Tested: P3SQAS13R609730DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R609730DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

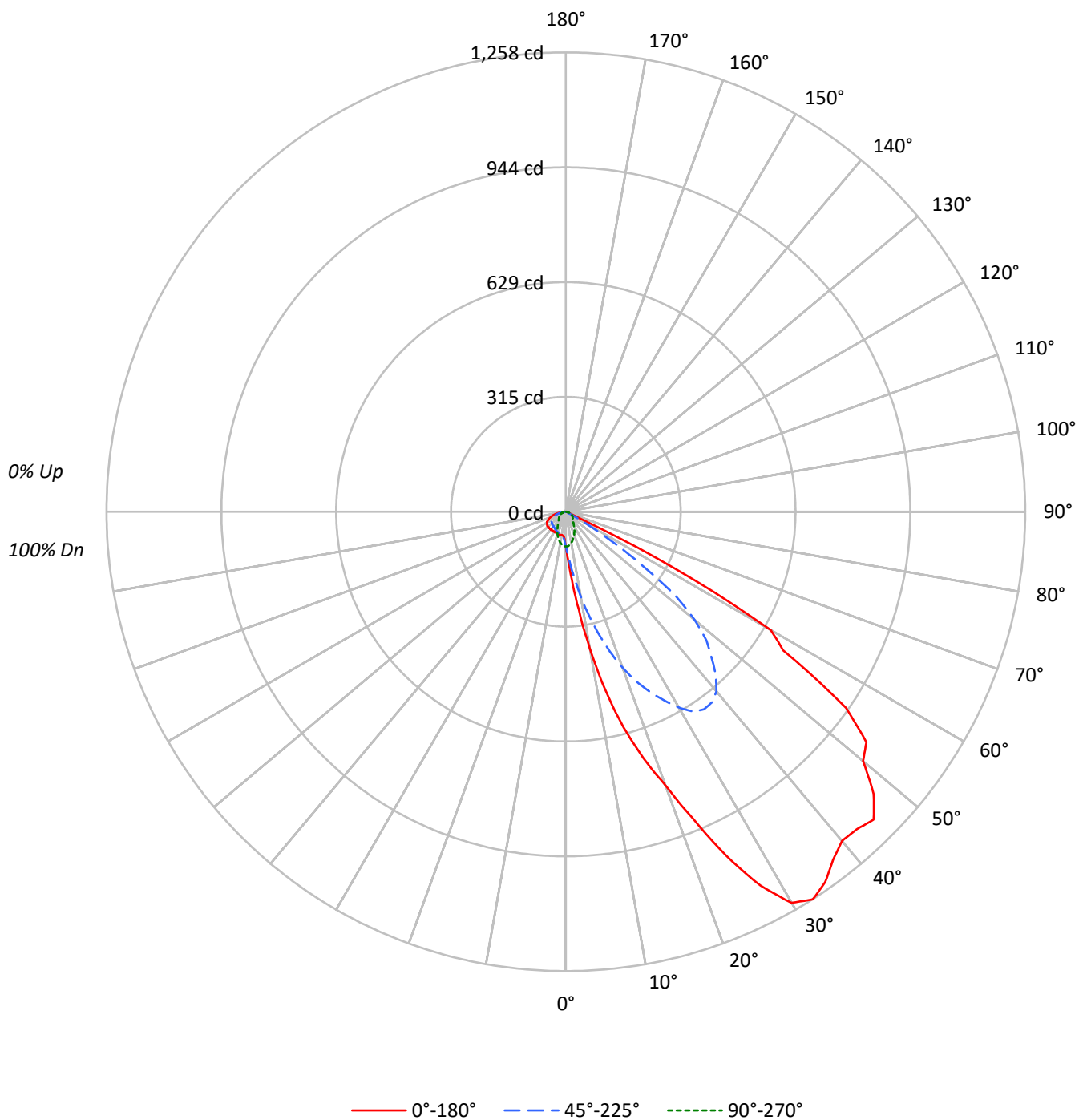
Lumens per Lamp: N/A
Luminaire Lumens: 958.0 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16344	16344	16344	16344	16344
5°	32225	25137	16112	12188	11600
10°	66559	40974	15075	11122	11262
15°	108851	61495	13515	11179	11482
20°	146034	83317	12133	11180	11656
25°	197590	103432	10584	11079	12086
30°	245917	123138	8830	11077	12648
35°	260346	138783	7506	11353	13182
40°	264502	144290	6857	11758	14299
45°	290372	137441	6576	12519	15490
50°	284650	123195	6538	13289	17040
55°	281345	75576	6546	14383	18826
60°	223166	18014	6889	15293	20391
65°	14181	3179	6724	15608	22006
70°	3072	3525	6596	16214	23264
75°	2928	3460	5789	15637	23755
80°	2579	3471	6050	15571	22414
85°	1778	3359	6916	13832	22329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 306473 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.9	1.2
10°-20°	59.7	6.2
20°-30°	138.5	14.5
30°-40°	215.3	22.5
40°-50°	245.4	25.6
50°-60°	206.7	21.6
60°-70°	60.0	6.3
70°-80°	15.4	1.6
80°-90°	5.2	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°	210.1	21.9
0°-40°	425.5	44.4
0°-60°	877.5	91.6
0°-90°	958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	958.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	95	95	95	95	95	
5°	186	145	93	70	67	24
15°	610	345	76	63	64	177
25°	1040	544	56	58	64	483
35°	1238	660	36	54	63	769
45°	1192	564	27	51	64	896
55°	937	252	22	48	63	788
65°	35	8	16	38	54	172
75°	4	5	9	24	36	5
85°	1	2	4	7	11	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
2.5°	128.0	127.1	127.1	126.3	125.4	124.5	121.9	121.0	115.8	105.4	94.9
5°	186.4	185.5	182.9	182.0	177.7	171.6	165.5	159.4	145.4	115.8	93.2
7.5°	270.0	271.7	270.0	260.4	254.3	244.7	226.4	213.4	185.5	126.3	89.7
10°	380.6	380.6	377.9	363.1	350.1	331.8	308.3	285.6	234.3	135.9	86.2
12.5°	500.7	503.3	490.3	478.1	454.6	431.9	399.7	365.8	290.0	143.7	81.9
15°	610.5	608.7	595.7	580.0	555.6	524.2	490.3	446.7	344.9	148.9	75.8
17.5°	708.0	704.5	693.2	675.8	646.2	611.3	567.8	520.8	401.5	153.3	71.4
20°	796.8	784.6	771.6	753.3	724.5	688.0	642.7	589.6	454.6	153.3	66.2
22.5°	909.2	897.0	878.7	850.8	812.5	767.2	714.1	654.0	501.6	149.8	61.0
25°	1039.8	1030.2	998.8	963.1	913.5	859.5	797.7	716.7	544.3	144.6	55.7
27.5°	1153.9	1143.4	1112.1	1059.8	999.7	935.3	870.0	787.2	581.7	135.0	49.6
30°	1236.6	1223.5	1199.1	1149.5	1076.4	998.0	920.5	841.2	619.2	123.7	44.4
32.5°	1258.4	1256.6	1238.3	1201.8	1136.4	1050.2	957.9	871.7	648.8	108.9	40.1
35°	1238.3	1240.9	1237.5	1219.2	1171.3	1086.8	982.3	888.3	660.1	94.1	35.7
37.5°	1201.8	1205.2	1211.3	1213.9	1183.5	1108.6	996.2	895.2	657.5	79.2	33.1
40°	1176.5	1174.8	1174.8	1192.2	1186.1	1118.2	998.0	890.0	641.8	63.6	30.5
42.5°	1179.1	1160.0	1146.9	1174.8	1183.5	1113.8	986.7	876.1	607.8	48.8	27.9
45°	1192.2	1151.2	1128.6	1164.3	1178.2	1099.0	965.8	855.2	564.3	34.0	27.0
47.5°	1143.4	1116.4	1112.9	1163.4	1168.7	1073.7	933.5	822.1	522.5	23.5	25.3
50°	1062.4	1058.1	1076.4	1128.6	1129.5	1031.9	897.0	762.0	459.8	16.5	24.4
52.5°	1037.2	1039.8	1056.3	1083.3	1058.1	961.4	830.8	711.5	380.6	13.1	23.5
55°	937.0	941.4	957.0	973.6	955.3	875.2	750.7	650.5	251.7	12.2	21.8
57.5°	705.4	716.7	745.4	760.2	762.0	713.2	680.1	560.8	141.9	12.2	20.9
60°	647.9	633.1	620.0	589.6	561.7	555.6	559.1	420.6	52.3	11.3	20.0
62.5°	338.8	331.8	351.8	364.9	368.4	387.5	362.3	222.1	11.3	11.3	18.3
65°	34.8	34.8	42.7	56.6	94.1	125.4	119.3	64.4	7.8	10.5	16.5
67.5°	10.5	10.5	10.5	12.2	15.7	15.7	13.1	9.6	7.8	9.6	14.8
70°	6.1	6.1	6.1	6.1	6.1	6.1	7.0	6.1	7.0	8.7	13.1
72.5°	5.2	5.2	5.2	5.2	6.1	6.1	6.1	6.1	6.1	7.8	11.3
75°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	5.2	5.2	6.1	8.7
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	4.4	4.4	4.4	5.2	7.0
80°	2.6	2.6	2.6	2.6	2.6	3.5	3.5	3.5	3.5	4.4	6.1
82.5°	1.7	1.7	1.7	1.7	2.6	2.6	2.6	2.6	2.6	3.5	4.4
85°	0.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.6	3.5
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	2.6
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):

	112.5°	135°	157.5°	180°
0°	94.9	94.9	94.9	94.9
2.5°	86.2	80.1	76.6	74.9
5°	78.4	70.5	67.9	67.1
7.5°	71.4	66.2	65.3	65.3
10°	67.1	63.6	64.4	64.4
12.5°	64.4	63.6	64.4	65.3
15°	61.8	62.7	64.4	64.4
17.5°	60.1	61.8	63.6	64.4
20°	57.5	61.0	63.6	63.6
22.5°	55.7	60.1	62.7	63.6
25°	54.0	58.3	61.8	63.6
27.5°	51.4	57.5	61.8	62.7
30°	48.8	55.7	61.0	63.6
32.5°	46.2	54.9	61.0	62.7
35°	44.4	54.0	61.0	62.7
37.5°	42.7	53.1	61.0	63.6
40°	41.8	52.3	60.1	63.6
42.5°	40.1	52.3	60.1	63.6
45°	39.2	51.4	60.1	63.6
47.5°	38.3	50.5	60.1	63.6
50°	36.6	49.6	59.2	63.6
52.5°	35.7	48.8	59.2	63.6
55°	34.0	47.9	58.3	62.7
57.5°	33.1	46.2	57.5	61.0
60°	31.4	44.4	55.7	59.2
62.5°	28.7	41.8	53.1	57.5
65°	26.1	38.3	50.5	54.0
67.5°	23.5	35.7	47.0	50.5
70°	20.9	32.2	42.7	46.2
72.5°	18.3	27.9	38.3	40.9
75°	15.7	23.5	32.2	35.7
77.5°	12.2	19.2	27.0	29.6
80°	9.6	15.7	20.9	22.6
82.5°	7.8	11.3	15.7	16.5
85°	5.2	7.0	9.6	11.3
87.5°	2.6	3.5	4.4	5.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)