

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: P1313638

Luminaire Tested: P3SQAS17R709730DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313638
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: P3SQAS17R709730DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

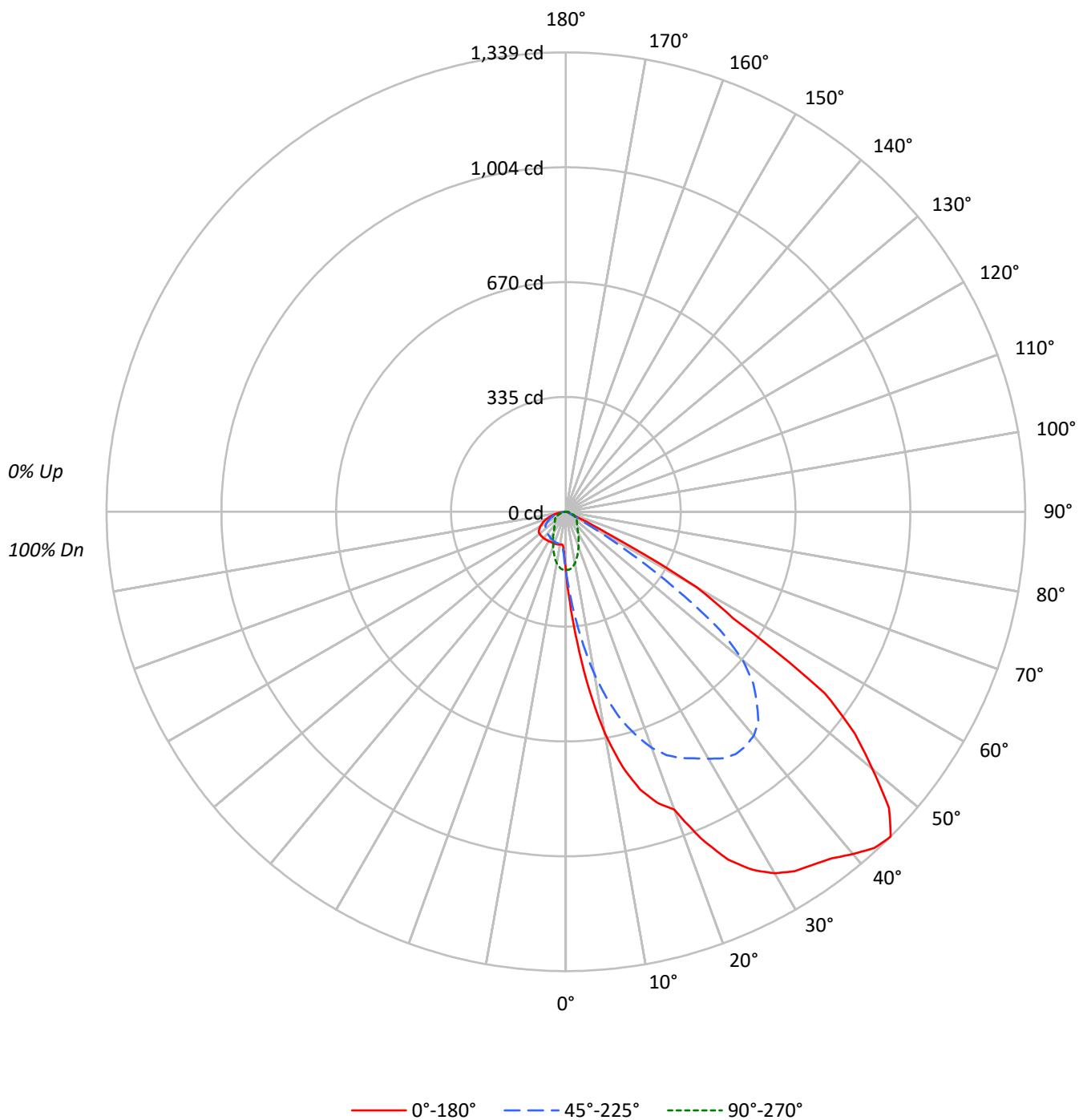
Lumens per Lamp: N/A
Luminaire Lumens: 1157.0 lumens
Efficiency: N/A
Efficacy: 54.6 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	29020	29020	29020	29020	29020
5°	66058	52884	28733	18152	16960
10°	114459	83977	26652	16561	16963
15°	149432	112167	23250	16885	17491
20°	169255	134139	19885	17136	18199
25°	212564	150482	16665	17330	18642
30°	241960	165277	14239	17679	19747
35°	264047	181294	12383	17955	20877
40°	292739	191525	11421	18683	22572
45°	326126	191754	11252	19680	24453
50°	312381	180317	11146	20711	26606
55°	276600	116802	11440	21829	28765
60°	151487	25041	11539	22251	29829
65°	10799	6113	11288	22128	30115
70°	5237	5791	10474	20947	29055
75°	4591	6122	9981	19963	26883
80°	4562	5752	9124	18348	25191
85°	4545	6916	9090	16006	22724

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 326126 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.0	1.9
10°-20°	94.0	8.1
20°-30°	180.4	15.6
30°-40°	255.1	22.0
40°-50°	288.6	24.9
50°-60°	228.5	19.8
60°-70°	61.6	5.3
70°-80°	20.5	1.8
80°-90°	6.3	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°	296.4	25.6
0°-40°	551.5	47.7
0°-60°	1068.7	92.4
0°-90°	1157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1157.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	168	168	168	168	168	
5°	382	306	166	105	98	45
15°	838	629	130	95	98	236
25°	1119	792	88	91	98	513
35°	1256	862	59	85	99	791
45°	1339	787	46	81	100	1002
55°	921	389	38	73	96	748
65°	26	15	28	54	74	96
75°	7	9	15	30	40	7
85°	2	4	5	8	12	3
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°	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5
2.5°	262.0	262.0	260.9	256.3	254.0	248.2	243.6	230.9	199.7	169.7	145.4
5°	382.1	387.9	379.8	378.6	371.7	361.3	354.4	305.9	230.9	166.2	124.7
7.5°	524.1	526.4	524.1	512.5	502.1	484.8	468.7	392.5	262.0	160.5	109.7
10°	654.5	651.0	644.1	636.0	621.0	602.6	574.9	480.2	292.0	152.4	100.4
12.5°	760.7	759.6	751.5	743.4	724.9	700.7	673.0	559.9	317.4	142.0	95.8
15°	838.1	838.1	830.0	820.7	803.4	783.8	752.6	629.1	338.2	130.4	91.2
17.5°	890.0	887.7	881.9	875.0	861.1	841.5	817.3	684.5	352.1	118.9	90.0
20°	923.5	922.3	917.7	907.3	895.8	880.8	858.8	731.9	357.8	108.5	88.9
22.5°	1030.8	1021.6	1004.3	982.3	954.6	918.9	888.8	767.6	355.5	97.0	86.6
25°	1118.6	1115.1	1096.6	1070.1	1033.1	987.0	937.3	791.9	344.0	87.7	84.3
27.5°	1176.3	1170.5	1153.2	1124.3	1085.1	1040.1	993.9	810.3	327.8	79.6	80.8
30°	1216.7	1213.2	1195.9	1163.6	1123.2	1073.5	1026.2	831.1	305.9	71.6	77.3
32.5°	1242.1	1238.6	1221.3	1192.4	1153.2	1101.2	1047.0	851.9	279.4	64.6	73.9
35°	1255.9	1252.5	1232.8	1207.4	1170.5	1119.7	1062.0	862.3	247.0	58.9	70.4
37.5°	1273.2	1266.3	1239.8	1208.6	1171.7	1124.3	1066.6	861.1	214.7	54.3	68.1
40°	1302.1	1283.6	1245.5	1204.0	1165.9	1118.6	1063.1	851.9	178.9	50.8	65.8
42.5°	1329.8	1303.3	1246.7	1197.1	1154.3	1108.2	1050.4	831.1	139.7	48.5	64.6
45°	1339.0	1299.8	1230.5	1180.9	1140.5	1093.2	1033.1	787.3	94.7	46.2	62.3
47.5°	1277.9	1249.0	1191.3	1154.3	1116.2	1070.1	1007.7	741.1	54.3	43.9	60.0
50°	1165.9	1147.4	1115.1	1092.0	1071.2	1038.9	977.7	673.0	32.3	41.6	57.7
52.5°	1062.0	1056.2	1033.1	1014.7	1003.1	988.1	932.7	567.9	26.5	40.4	55.4
55°	921.2	902.7	896.9	890.0	914.2	913.1	838.1	389.0	25.4	38.1	53.1
57.5°	578.3	586.4	616.4	671.8	737.6	775.7	773.4	207.8	24.2	35.8	49.6
60°	439.8	438.6	447.9	471.0	519.5	573.7	624.5	72.7	23.1	33.5	47.3
62.5°	131.6	135.1	162.8	238.9	286.3	353.2	322.1	17.3	21.9	30.0	42.7
65°	26.5	27.7	27.7	31.2	38.1	57.7	70.4	15.0	20.8	27.7	39.2
67.5°	11.5	11.5	11.5	12.7	12.7	15.0	12.7	13.9	18.5	24.2	34.6
70°	10.4	10.4	10.4	10.4	10.4	10.4	11.5	11.5	16.2	20.8	30.0
72.5°	8.1	8.1	8.1	9.2	9.2	9.2	9.2	10.4	13.9	17.3	25.4
75°	6.9	6.9	6.9	6.9	8.1	8.1	8.1	9.2	11.5	15.0	20.8
77.5°	5.8	5.8	5.8	5.8	5.8	6.9	6.9	6.9	9.2	11.5	17.3
80°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	5.8	6.9	9.2	12.7
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.6	5.8	6.9	9.2
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.5	3.5	4.6	5.8
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	2.3	2.3	3.5
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°	168.5	168.5	168.5
2.5°	128.1	121.2	117.7
5°	105.0	99.3	98.1
7.5°	97.0	95.8	95.8
10°	94.7	95.8	97.0
12.5°	94.7	97.0	98.1
15°	94.7	97.0	98.1
17.5°	94.7	97.0	98.1
20°	93.5	97.0	99.3
22.5°	92.3	97.0	98.1
25°	91.2	97.0	98.1
27.5°	90.0	95.8	98.1
30°	88.9	95.8	99.3
32.5°	86.6	95.8	99.3
35°	85.4	95.8	99.3
37.5°	84.3	95.8	100.4
40°	83.1	95.8	100.4
42.5°	82.0	95.8	100.4
45°	80.8	94.7	100.4
47.5°	78.5	94.7	100.4
50°	77.3	93.5	99.3
52.5°	75.0	92.3	99.3
55°	72.7	90.0	95.8
57.5°	69.3	86.6	91.2
60°	64.6	82.0	86.6
62.5°	58.9	76.2	79.6
65°	54.3	69.3	73.9
67.5°	47.3	61.2	65.8
70°	41.6	53.1	57.7
72.5°	35.8	45.0	49.6
75°	30.0	36.9	40.4
77.5°	23.1	30.0	32.3
80°	18.5	23.1	25.4
82.5°	12.7	16.2	17.3
85°	8.1	10.4	11.5
87.5°	3.5	4.6	4.6
90°	0.0	0.0	0.0

(END OF REPORT)