

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: P1318221

Luminaire Tested: P3SQAS17R709835DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318221
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: P3SQAS17R709835DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

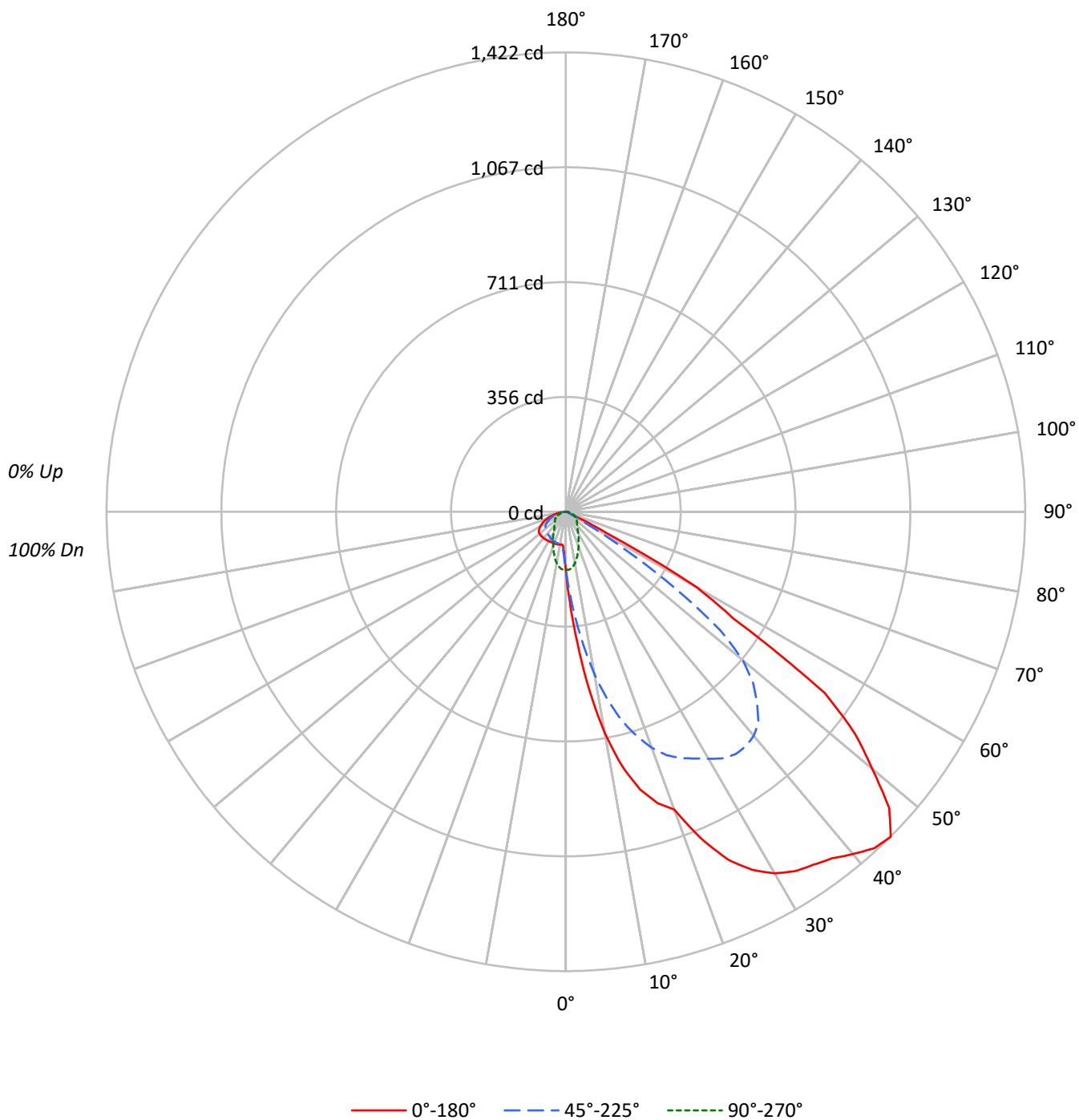
Lumens per Lamp: N/A
Luminaire Lumens: 1229.0 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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°	30828	30828	30828	30828	30828
5°	70172	56169	30531	19293	18014
10°	121576	89206	28313	17575	18013
15°	158721	119157	24712	17919	18579
20°	179775	142478	21132	18199	19336
25°	225790	159850	17710	18414	19801
30°	257014	175559	15114	18773	20980
35°	280488	192584	13140	19069	22181
40°	310949	203440	12140	19852	23988
45°	346439	203689	11934	20897	25988
50°	331806	191544	11816	22024	28267
55°	293805	124068	12161	23180	30567
60°	160925	26591	12262	23663	31689
65°	11492	6479	11981	23473	31990
70°	5539	6194	11128	22206	30867
75°	4924	6521	10580	21227	28546
80°	4860	6050	9720	19439	26778
85°	4940	7311	9683	16994	24305

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 346439 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.4	1.9
10°-20°	99.9	8.1
20°-30°	191.6	15.6
30°-40°	271.0	22.0
40°-50°	306.5	24.9
50°-60°	242.8	19.8
60°-70°	65.5	5.3
70°-80°	21.7	1.8
80°-90°	6.7	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°	314.9	25.6
0°-40°	585.9	47.7
0°-60°	1135.2	92.4
0°-90°	1229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1229.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	179	179	179	179	179	
5°	406	325	177	112	104	48
15°	890	668	139	100	104	251
25°	1188	841	93	97	104	545
35°	1334	916	62	91	106	840
45°	1422	836	49	86	107	1064
55°	978	413	40	77	102	794
65°	28	16	29	58	78	102
75°	7	10	16	32	43	8
85°	2	4	5	9	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°	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0
2.5°	278.3	278.3	277.1	272.2	269.8	263.6	258.7	245.2	212.1	180.2	154.5
5°	405.9	412.0	403.4	402.2	394.8	383.8	376.4	324.9	245.2	176.6	132.4
7.5°	556.7	559.1	556.7	544.4	533.4	515.0	497.8	416.9	278.3	170.4	116.5
10°	695.2	691.6	684.2	675.6	659.7	640.1	610.6	510.1	310.2	161.9	106.7
12.5°	808.0	806.8	798.2	789.7	770.0	744.3	714.9	594.7	337.2	150.8	101.8
15°	890.2	890.2	881.6	871.8	853.4	832.6	799.5	668.3	359.3	138.6	96.9
17.5°	945.4	942.9	936.8	929.4	914.7	893.9	868.1	727.1	374.0	126.3	95.6
20°	980.9	979.7	974.8	963.8	951.5	935.6	912.3	777.4	380.1	115.3	94.4
22.5°	1095.0	1085.2	1066.8	1043.5	1014.0	976.0	944.2	815.4	377.7	103.0	92.0
25°	1188.2	1184.5	1164.9	1136.7	1097.4	1048.4	995.7	841.2	365.4	93.2	89.5
27.5°	1249.5	1243.3	1224.9	1194.3	1152.6	1104.8	1055.7	860.8	348.2	84.6	85.8
30°	1292.4	1288.7	1270.3	1236.0	1193.1	1140.3	1090.1	882.8	324.9	76.0	82.2
32.5°	1319.4	1315.7	1297.3	1266.6	1224.9	1169.8	1112.1	904.9	296.7	68.7	78.5
35°	1334.1	1330.4	1309.6	1282.6	1243.3	1189.4	1128.1	916.0	262.4	62.5	74.8
37.5°	1352.5	1345.1	1316.9	1283.8	1244.6	1194.3	1133.0	914.7	228.1	57.6	72.3
40°	1383.1	1363.5	1323.0	1278.9	1238.4	1188.2	1129.3	904.9	190.1	54.0	69.9
42.5°	1412.6	1384.4	1324.3	1271.5	1226.2	1177.1	1115.8	882.8	148.4	51.5	68.7
45°	1422.4	1380.7	1307.1	1254.4	1211.5	1161.2	1097.4	836.3	100.5	49.0	66.2
47.5°	1357.4	1326.7	1265.4	1226.2	1185.7	1136.7	1070.5	787.2	57.6	46.6	63.8
50°	1238.4	1218.8	1184.5	1160.0	1137.9	1103.6	1038.6	714.9	34.3	44.1	61.3
52.5°	1128.1	1122.0	1097.4	1077.8	1065.5	1049.6	990.7	603.3	28.2	42.9	58.9
55°	978.5	958.9	952.7	945.4	971.1	969.9	890.2	413.2	27.0	40.5	56.4
57.5°	614.3	622.9	654.8	713.6	783.5	824.0	821.5	220.7	25.7	38.0	52.7
60°	467.2	465.9	475.8	500.3	551.8	609.4	663.4	77.2	24.5	35.6	50.3
62.5°	139.8	143.5	172.9	253.8	304.1	375.2	342.1	18.4	23.3	31.9	45.4
65°	28.2	29.4	29.4	33.1	40.5	61.3	74.8	15.9	22.1	29.4	41.7
67.5°	12.3	12.3	12.3	13.5	13.5	15.9	13.5	14.7	19.6	25.7	36.8
70°	11.0	11.0	11.0	11.0	11.0	11.0	12.3	12.3	17.2	22.1	31.9
72.5°	8.6	8.6	8.6	9.8	9.8	9.8	9.8	11.0	14.7	18.4	27.0
75°	7.4	7.4	7.4	7.4	8.6	8.6	8.6	9.8	12.3	15.9	22.1
77.5°	6.1	6.1	6.1	6.1	6.1	7.4	7.4	7.4	9.8	12.3	18.4
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.1	7.4	9.8	13.5
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.9	6.1	7.4	9.8
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7	4.9	6.1
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	3.7
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°	179.0	179.0	179.0
2.5°	136.1	128.7	125.1
5°	111.6	105.5	104.2
7.5°	103.0	101.8	101.8
10°	100.5	101.8	103.0
12.5°	100.5	103.0	104.2
15°	100.5	103.0	104.2
17.5°	100.5	103.0	104.2
20°	99.3	103.0	105.5
22.5°	98.1	103.0	104.2
25°	96.9	103.0	104.2
27.5°	95.6	101.8	104.2
30°	94.4	101.8	105.5
32.5°	92.0	101.8	105.5
35°	90.7	101.8	105.5
37.5°	89.5	101.8	106.7
40°	88.3	101.8	106.7
42.5°	87.1	101.8	106.7
45°	85.8	100.5	106.7
47.5°	83.4	100.5	106.7
50°	82.2	99.3	105.5
52.5°	79.7	98.1	105.5
55°	77.2	95.6	101.8
57.5°	73.6	92.0	96.9
60°	68.7	87.1	92.0
62.5°	62.5	80.9	84.6
65°	57.6	73.6	78.5
67.5°	50.3	65.0	69.9
70°	44.1	56.4	61.3
72.5°	38.0	47.8	52.7
75°	31.9	39.2	42.9
77.5°	24.5	31.9	34.3
80°	19.6	24.5	27.0
82.5°	13.5	17.2	18.4
85°	8.6	11.0	12.3
87.5°	3.7	4.9	4.9
90°	0.0	0.0	0.0

(END OF REPORT)