

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: P1308083

Luminaire Tested: P3SQAS13R659030DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R659030DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

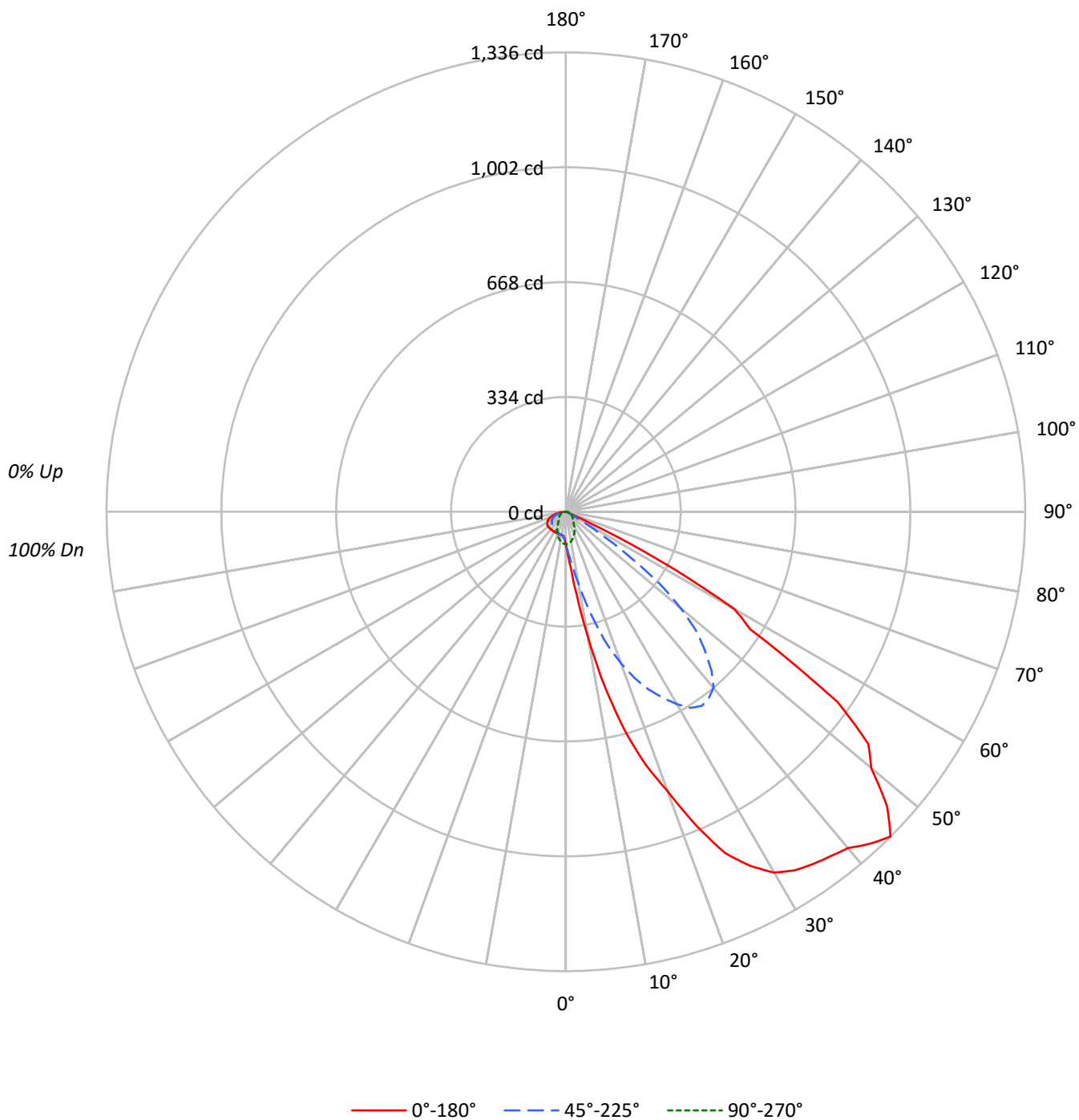
Lumens per Lamp: N/A
Luminaire Lumens: 969.0 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16223	16223	16223	16223	16223
5°	28387	23183	15957	12931	12430
10°	64233	37372	15284	11892	12067
15°	116750	60104	14210	11946	12303
20°	158295	85828	12829	11931	12463
25°	208079	108372	11269	11630	12732
30°	240946	128487	9665	11594	13324
35°	263101	144838	8179	11858	14086
40°	287029	150270	7217	12455	15063
45°	325371	139389	6868	13250	16318
50°	310827	116362	6779	14066	17951
55°	289692	65337	6996	15163	19847
60°	195094	14053	7027	16051	21424
65°	30074	3545	6724	16627	23351
70°	3424	3424	6345	17121	24976
75°	3261	3261	5789	16835	25219
80°	2876	3868	5752	15373	25092
85°	1976	3754	5730	15413	23120

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 325371 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.4	1.2
10°-20°	61.6	6.4
20°-30°	144.8	14.9
30°-40°	218.7	22.6
40°-50°	251.4	25.9
50°-60°	199.6	20.6
60°-70°	59.8	6.2
70°-80°	16.2	1.7
80°-90°	5.5	0.6
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°	217.8	22.5
0°-40°	436.5	45.0
0°-60°	887.5	91.6
0°-90°	969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	969.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	94	94	94	94	94	
5°	164	134	92	75	72	22
15°	655	337	80	67	69	189
25°	1095	570	59	61	67	500
35°	1251	689	39	56	67	785
45°	1336	572	28	54	67	992
55°	965	218	23	50	66	795
65°	74	9	16	41	57	166
75°	5	5	9	25	38	5
85°	1	2	3	8	12	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
2.5°	119.5	120.5	119.5	119.5	118.5	117.6	110.8	103.0	94.2	87.4	82.6
5°	164.2	165.2	162.3	162.3	160.3	157.4	134.1	111.7	92.3	81.6	74.8
7.5°	242.9	246.8	241.9	236.1	225.4	223.5	167.1	120.5	90.4	75.8	70.0
10°	367.3	364.3	359.5	347.8	329.4	320.6	213.7	129.2	87.4	71.9	68.0
12.5°	517.9	510.1	504.3	482.9	457.6	443.0	272.0	137.0	83.6	68.0	67.0
15°	654.8	649.0	635.4	615.0	583.9	572.3	337.1	141.9	79.7	65.1	67.0
17.5°	770.5	764.6	756.9	736.5	704.4	686.9	410.0	144.8	74.8	63.2	66.1
20°	863.7	859.9	849.2	832.6	800.6	784.1	468.3	144.8	70.0	61.2	65.1
22.5°	984.2	975.5	961.9	937.6	897.7	872.5	523.7	141.9	65.1	59.3	63.2
25°	1095.0	1089.1	1071.7	1042.5	999.8	974.5	570.3	136.0	59.3	56.4	61.2
27.5°	1161.0	1157.2	1140.6	1110.5	1062.9	1043.5	609.2	127.3	53.4	53.4	60.2
30°	1211.6	1203.8	1187.3	1158.1	1109.5	1086.2	646.1	116.6	48.6	50.5	58.3
32.5°	1236.8	1233.9	1219.3	1194.1	1146.5	1120.2	676.2	103.0	42.7	48.6	57.3
35°	1251.4	1248.5	1236.8	1212.5	1167.8	1142.6	688.9	90.4	38.9	46.6	56.4
37.5°	1263.1	1260.1	1245.6	1221.3	1176.6	1150.4	683.0	76.8	35.0	44.7	55.4
40°	1276.7	1266.0	1243.6	1219.3	1178.5	1153.3	668.4	64.1	32.1	43.7	55.4
42.5°	1309.7	1272.8	1237.8	1215.4	1176.6	1147.4	626.7	50.5	29.1	41.8	54.4
45°	1335.9	1270.8	1226.1	1208.6	1168.8	1135.8	572.3	36.9	28.2	40.8	54.4
47.5°	1266.9	1227.1	1206.7	1197.0	1154.2	1118.3	515.9	25.3	27.2	39.8	53.4
50°	1160.1	1155.2	1147.4	1148.4	1109.5	1080.4	434.3	17.5	25.3	38.9	52.5
52.5°	1108.6	1102.7	1089.1	1079.4	1040.6	1015.3	343.9	13.6	24.3	37.9	51.5
55°	964.8	968.7	954.1	959.9	948.3	935.6	217.6	12.6	23.3	35.9	50.5
57.5°	635.4	654.8	688.9	729.7	766.6	791.8	117.6	12.6	21.4	35.0	48.6
60°	566.4	561.6	560.6	568.4	584.9	598.5	40.8	11.7	20.4	32.1	46.6
62.5°	309.9	308.0	337.1	386.7	415.8	418.8	11.7	11.7	18.5	30.1	43.7
65°	73.8	76.8	85.5	106.9	126.3	138.9	8.7	10.7	16.5	28.2	40.8
67.5°	11.7	12.6	12.6	15.5	17.5	17.5	7.8	9.7	14.6	25.3	37.9
70°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	8.7	12.6	22.3	34.0
72.5°	5.8	5.8	5.8	5.8	5.8	5.8	6.8	7.8	10.7	19.4	29.1
75°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.8	8.7	15.5	25.3
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	4.9	5.8	7.8	12.6	20.4
80°	2.9	2.9	2.9	2.9	2.9	2.9	3.9	4.9	5.8	9.7	15.5
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	2.9	3.9	4.9	7.8	11.7
85°	1.0	1.0	1.0	1.0	1.9	1.9	1.9	2.9	2.9	4.9	7.8
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9	1.9	2.9	3.9
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):

	157.5°	180°
0°	94.2	94.2
2.5°	79.7	78.7
5°	71.9	71.9
7.5°	69.0	69.0
10°	68.0	69.0
12.5°	68.0	69.0
15°	68.0	69.0
17.5°	68.0	69.0
20°	67.0	68.0
22.5°	66.1	67.0
25°	65.1	67.0
27.5°	64.1	67.0
30°	64.1	67.0
32.5°	64.1	67.0
35°	63.2	67.0
37.5°	63.2	67.0
40°	63.2	67.0
42.5°	63.2	67.0
45°	63.2	67.0
47.5°	63.2	67.0
50°	63.2	67.0
52.5°	62.2	67.0
55°	62.2	66.1
57.5°	60.2	64.1
60°	58.3	62.2
62.5°	56.4	60.2
65°	53.4	57.3
67.5°	50.5	53.4
70°	45.7	49.6
72.5°	40.8	43.7
75°	35.0	37.9
77.5°	29.1	32.1
80°	23.3	25.3
82.5°	16.5	18.5
85°	10.7	11.7
87.5°	4.9	4.9
90°	0.0	0.0

(END OF REPORT)