

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: P1308089

Luminaire Tested: P3SQAS13R709030DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308089
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: P3SQAS13R709030DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

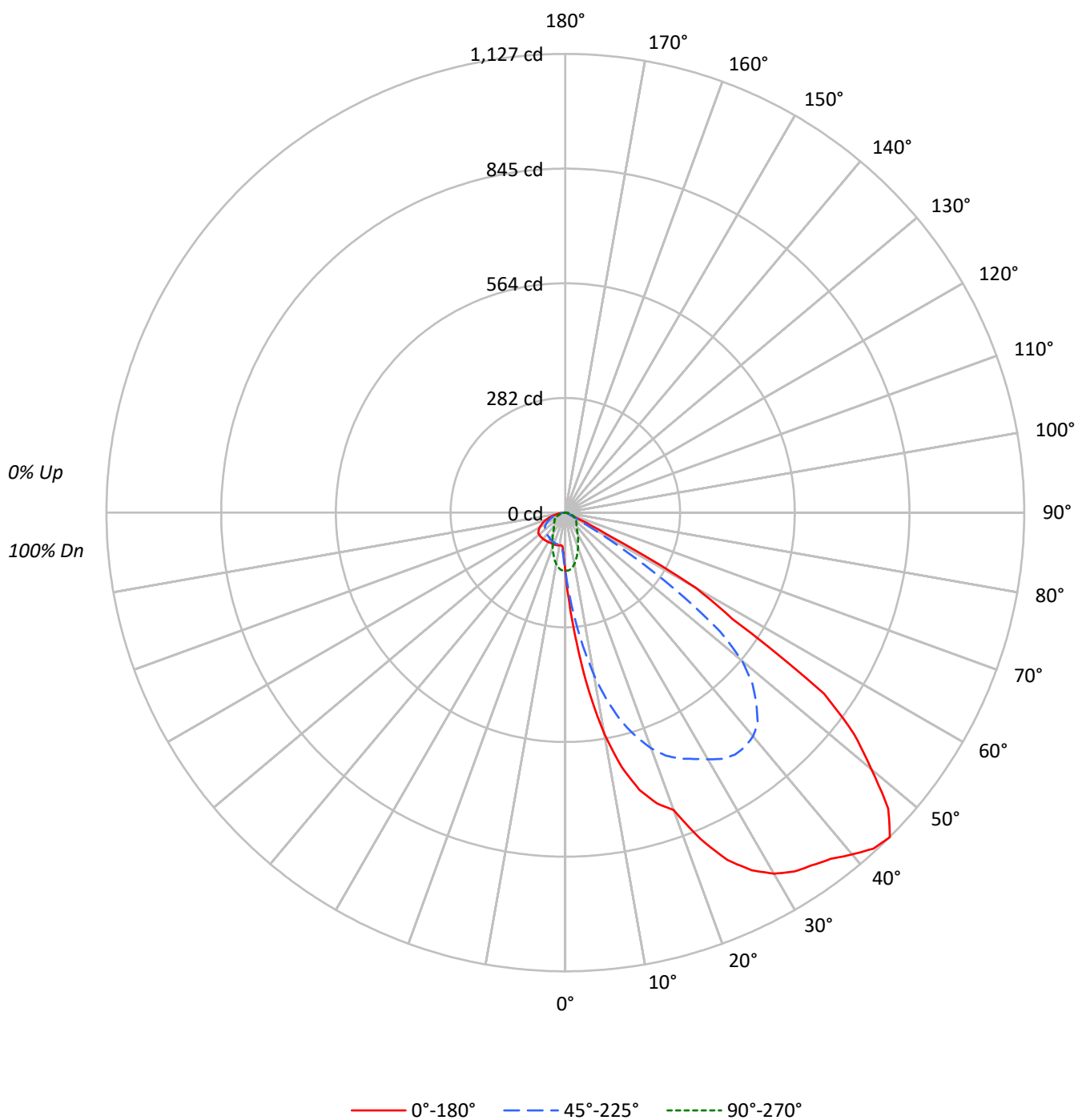
Lumens per Lamp: N/A
Luminaire Lumens: 974.0 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	102	102	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	75	75
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64	64	64
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54	54	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47	47	47
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41	41	41
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35	35	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31	31	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	28	28
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25	25	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	24438	24438	24438	24438	24438
5°	55616	44517	24186	15283	14280
10°	96359	70704	22437	13938	14270
15°	125789	94427	19577	14210	14727
20°	142478	112916	16733	14424	15322
25°	178929	126672	14043	14594	15696
30°	203678	139146	11972	14875	16625
35°	222292	152617	10428	15117	17576
40°	246426	161241	9622	15737	18997
45°	274540	161407	9474	16562	20581
50°	262974	151783	9378	17442	22399
55°	232852	98335	9638	18376	24231
60°	127514	21080	9713	18738	25110
65°	9128	5135	9495	18623	25347
70°	4381	4884	8812	17624	24472
75°	3859	5190	8384	16835	22624
80°	3868	4860	7736	15373	21224
85°	3754	5730	7707	13437	19168

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 274540 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.5	1.9
10°-20°	79.2	8.1
20°-30°	151.9	15.6
30°-40°	214.8	22.0
40°-50°	242.9	24.9
50°-60°	192.4	19.8
60°-70°	51.9	5.3
70°-80°	17.2	1.8
80°-90°	5.3	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°	249.5	25.6
0°-40°	464.3	47.7
0°-60°	899.6	92.4
0°-90°	974.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	974.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	142	142	142	142	142	
5°	322	258	140	88	83	38
15°	706	530	110	80	83	199
25°	942	667	74	77	83	432
35°	1057	726	50	72	84	666
45°	1127	663	39	68	84	843
55°	776	328	32	61	81	629
65°	22	13	23	46	62	81
75°	6	8	13	25	34	6
85°	2	3	4	7	10	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°	141.9	141.9	141.9	141.9	141.9	141.9	141.9	141.9	141.9	141.9	141.9
2.5°	220.6	220.6	219.6	215.7	213.8	208.9	205.0	194.4	168.1	142.8	122.4
5°	321.7	326.5	319.7	318.7	312.9	304.2	298.3	257.5	194.4	139.9	105.0
7.5°	441.2	443.1	441.2	431.5	422.7	408.1	394.5	330.4	220.6	135.1	92.3
10°	551.0	548.1	542.2	535.4	522.8	507.3	483.9	404.3	245.9	128.3	84.5
12.5°	640.4	639.4	632.6	625.8	610.3	589.9	566.5	471.3	267.2	119.5	80.7
15°	705.5	705.5	698.7	690.9	676.3	659.8	633.6	529.6	284.7	109.8	76.8
17.5°	749.2	747.3	742.4	736.6	724.9	708.4	688.0	576.3	296.4	100.1	75.8
20°	777.4	776.4	772.6	763.8	754.1	741.5	723.0	616.1	301.2	91.3	74.8
22.5°	867.8	860.0	845.4	827.0	803.6	773.5	748.3	646.2	299.3	81.6	72.9
25°	941.6	938.7	923.2	900.8	869.7	830.9	789.1	666.6	289.6	73.9	70.9
27.5°	990.2	985.4	970.8	946.5	913.5	875.6	836.7	682.2	276.0	67.1	68.0
30°	1024.2	1021.3	1006.7	979.5	945.5	903.7	863.9	699.7	257.5	60.2	65.1
32.5°	1045.6	1042.7	1028.1	1003.8	970.8	927.1	881.4	717.2	235.2	54.4	62.2
35°	1057.3	1054.4	1037.8	1016.5	985.4	942.6	894.0	725.9	208.0	49.6	59.3
37.5°	1071.9	1066.0	1043.7	1017.4	986.3	946.5	897.9	724.9	180.7	45.7	57.3
40°	1096.1	1080.6	1048.5	1013.5	981.5	941.6	895.0	717.2	150.6	42.8	55.4
42.5°	1119.5	1097.1	1049.5	1007.7	971.8	932.9	884.3	699.7	117.6	40.8	54.4
45°	1127.2	1094.2	1035.9	994.1	960.1	920.3	869.7	662.7	79.7	38.9	52.5
47.5°	1075.7	1051.4	1002.9	971.8	939.7	900.8	848.3	623.9	45.7	36.9	50.5
50°	981.5	965.9	938.7	919.3	901.8	874.6	823.1	566.5	27.2	35.0	48.6
52.5°	894.0	889.2	869.7	854.2	844.5	831.8	785.2	478.1	22.4	34.0	46.6
55°	775.5	759.9	755.1	749.2	769.6	768.7	705.5	327.5	21.4	32.1	44.7
57.5°	486.9	493.7	518.9	565.6	621.0	653.0	651.1	174.9	20.4	30.1	41.8
60°	370.2	369.3	377.0	396.5	437.3	483.0	525.7	61.2	19.4	28.2	39.8
62.5°	110.8	113.7	137.0	201.2	241.0	297.4	271.1	14.6	18.5	25.3	36.0
65°	22.4	23.3	23.3	26.2	32.1	48.6	59.3	12.6	17.5	23.3	33.0
67.5°	9.7	9.7	9.7	10.7	10.7	12.6	10.7	11.7	15.5	20.4	29.2
70°	8.7	8.7	8.7	8.7	8.7	8.7	9.7	9.7	13.6	17.5	25.3
72.5°	6.8	6.8	6.8	7.8	7.8	7.8	7.8	8.7	11.7	14.6	21.4
75°	5.8	5.8	5.8	5.8	6.8	6.8	6.8	7.8	9.7	12.6	17.5
77.5°	4.9	4.9	4.9	4.9	4.9	5.8	5.8	5.8	7.8	9.7	14.6
80°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.9	5.8	7.8	10.7
82.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.9	4.9	5.8	7.8
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.9	2.9	3.9	4.9
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9	1.9	2.9
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):

	135°	157.5°	180°
0°	141.9	141.9	141.9
2.5°	107.9	102.0	99.1
5°	88.4	83.6	82.6
7.5°	81.6	80.7	80.7
10°	79.7	80.7	81.6
12.5°	79.7	81.6	82.6
15°	79.7	81.6	82.6
17.5°	79.7	81.6	82.6
20°	78.7	81.6	83.6
22.5°	77.7	81.6	82.6
25°	76.8	81.6	82.6
27.5°	75.8	80.7	82.6
30°	74.8	80.7	83.6
32.5°	72.9	80.7	83.6
35°	71.9	80.7	83.6
37.5°	70.9	80.7	84.5
40°	70.0	80.7	84.5
42.5°	69.0	80.7	84.5
45°	68.0	79.7	84.5
47.5°	66.1	79.7	84.5
50°	65.1	78.7	83.6
52.5°	63.2	77.7	83.6
55°	61.2	75.8	80.7
57.5°	58.3	72.9	76.8
60°	54.4	69.0	72.9
62.5°	49.6	64.1	67.1
65°	45.7	58.3	62.2
67.5°	39.8	51.5	55.4
70°	35.0	44.7	48.6
72.5°	30.1	37.9	41.8
75°	25.3	31.1	34.0
77.5°	19.4	25.3	27.2
80°	15.5	19.4	21.4
82.5°	10.7	13.6	14.6
85°	6.8	8.7	9.7
87.5°	2.9	3.9	3.9
90°	0.0	0.0	0.0

(END OF REPORT)