

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: P1311402

Luminaire Tested: P3SQAS13R709050DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311402
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: P3SQAS13R709050DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

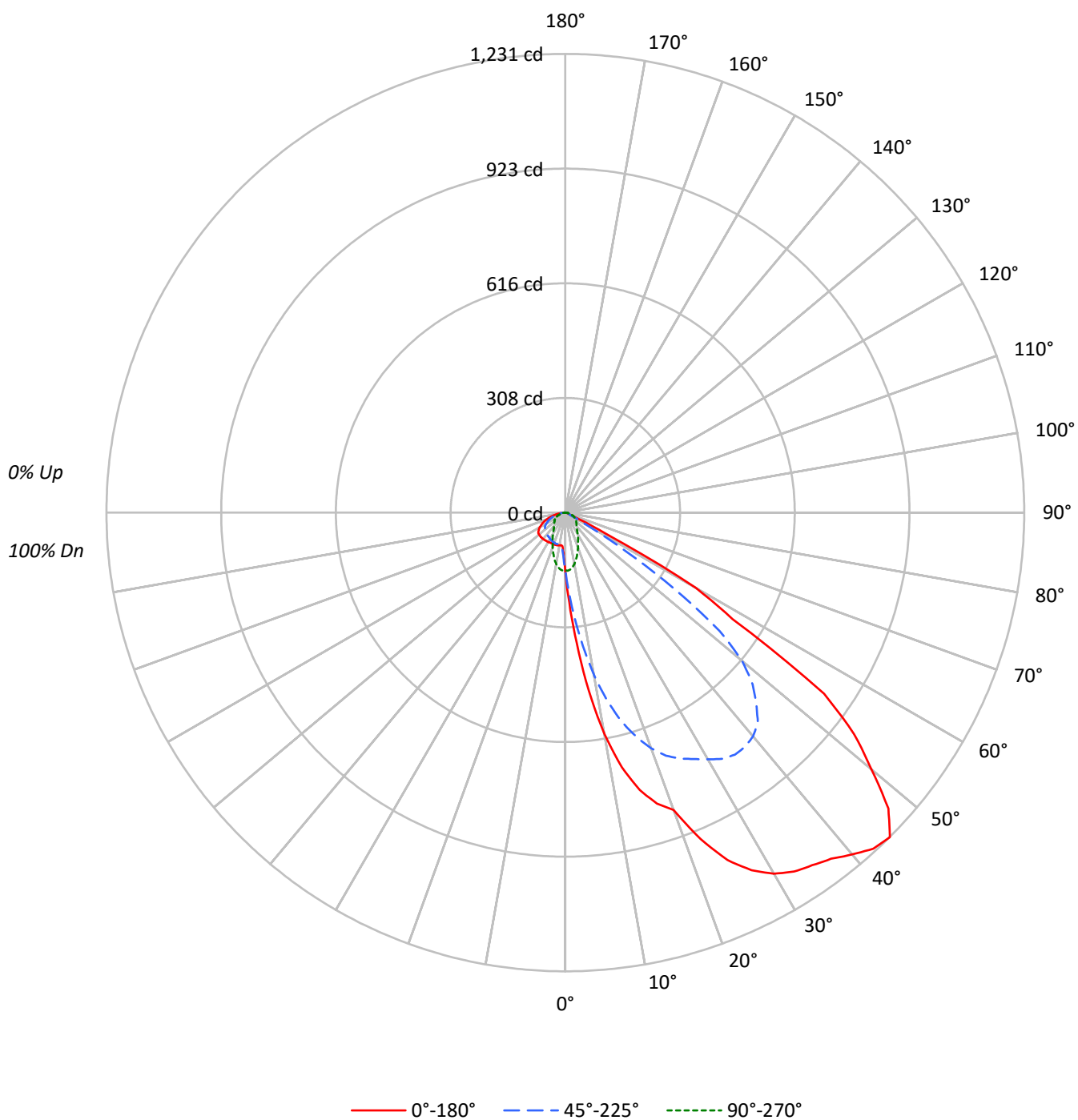
Lumens per Lamp: N/A
Luminaire Lumens: 1064.0 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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°	26695	26695	26695	26695	26695
5°	60750	48631	26433	16700	15594
10°	105260	77227	24501	15215	15599
15°	137414	103145	21396	15512	16082
20°	155638	123344	18291	15762	16733
25°	195461	138377	15335	15943	17140
30°	222511	151993	13085	16247	18156
35°	242833	166724	11374	16525	19195
40°	269200	176125	10499	17176	20773
45°	299919	176337	10351	18096	22505
50°	287275	165822	10235	19050	24462
55°	254351	107403	10509	20087	26453
60°	139328	23043	10609	20460	27418
65°	9943	5624	10392	20335	27670
70°	4834	5338	9618	19235	26738
75°	4259	5656	9183	18366	24754
80°	4166	5256	8430	16860	23208
85°	4150	6323	8299	14623	20946

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 299919 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.2	1.9
10°-20°	86.5	8.1
20°-30°	165.9	15.6
30°-40°	234.6	22.0
40°-50°	265.4	24.9
50°-60°	210.2	19.8
60°-70°	56.7	5.3
70°-80°	18.8	1.8
80°-90°	5.8	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°	272.6	25.6
0°-40°	507.2	47.7
0°-60°	982.7	92.4
0°-90°	1064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1064.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	155	155	155	155	155	
5°	351	281	153	97	90	42
15°	771	578	120	87	90	217
25°	1029	728	81	84	90	471
35°	1155	793	54	79	91	727
45°	1231	724	42	74	92	921
55°	847	358	35	67	88	687
65°	24	14	26	50	68	88
75°	6	8	14	28	37	7
85°	2	3	4	7	11	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°	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
2.5°	241.0	241.0	239.9	235.7	233.5	228.2	224.0	212.3	183.6	156.0	133.8
5°	351.4	356.7	349.3	348.2	341.8	332.3	325.9	281.3	212.3	152.9	114.6
7.5°	481.9	484.1	481.9	471.3	461.8	445.9	431.0	360.9	241.0	147.6	100.8
10°	601.9	598.7	592.3	584.9	571.1	554.1	528.7	441.6	268.6	140.1	92.4
12.5°	699.6	698.5	691.1	683.6	666.7	644.4	618.9	514.9	291.9	130.6	88.1
15°	770.7	770.7	763.3	754.8	738.8	720.8	692.1	578.5	311.0	120.0	83.9
17.5°	818.5	816.3	811.0	804.7	791.9	773.9	751.6	629.5	323.8	109.3	82.8
20°	849.2	848.2	843.9	834.4	823.8	810.0	789.8	673.0	329.1	99.8	81.7
22.5°	948.0	939.5	923.6	903.4	877.9	845.0	817.4	705.9	327.0	89.2	79.6
25°	1028.6	1025.5	1008.5	984.1	950.1	907.6	862.0	728.2	316.3	80.7	77.5
27.5°	1081.7	1076.4	1060.5	1034.0	997.9	956.5	914.0	745.2	301.5	73.2	74.3
30°	1118.9	1115.7	1099.8	1070.0	1032.9	987.2	943.7	764.3	281.3	65.8	71.1
32.5°	1142.2	1139.0	1123.1	1096.6	1060.5	1012.7	962.8	783.4	256.9	59.4	67.9
35°	1155.0	1151.8	1133.7	1110.4	1076.4	1029.7	976.6	793.0	227.2	54.1	64.8
37.5°	1170.9	1164.5	1140.1	1111.4	1077.5	1034.0	980.9	791.9	197.4	49.9	62.6
40°	1197.4	1180.4	1145.4	1107.2	1072.2	1028.6	977.7	783.4	164.5	46.7	60.5
42.5°	1222.9	1198.5	1146.5	1100.8	1061.6	1019.1	966.0	764.3	128.4	44.6	59.4
45°	1231.4	1195.3	1131.6	1086.0	1048.8	1005.3	950.1	724.0	87.0	42.5	57.3
47.5°	1175.1	1148.6	1095.5	1061.6	1026.5	984.1	926.7	681.5	49.9	40.3	55.2
50°	1072.2	1055.2	1025.5	1004.2	985.1	955.4	899.1	618.9	29.7	38.2	53.1
52.5°	976.6	971.3	950.1	933.1	922.5	908.7	857.7	522.3	24.4	37.2	51.0
55°	847.1	830.1	824.8	818.5	840.8	839.7	770.7	357.7	23.4	35.0	48.8
57.5°	531.8	539.3	566.9	617.8	678.3	713.4	711.2	191.1	22.3	32.9	45.6
60°	404.5	403.4	411.9	433.1	477.7	527.6	574.3	66.9	21.2	30.8	43.5
62.5°	121.0	124.2	149.7	219.7	263.3	324.8	296.2	15.9	20.2	27.6	39.3
65°	24.4	25.5	25.5	28.7	35.0	53.1	64.8	13.8	19.1	25.5	36.1
67.5°	10.6	10.6	10.6	11.7	11.7	13.8	11.7	12.7	17.0	22.3	31.8
70°	9.6	9.6	9.6	9.6	9.6	9.6	10.6	10.6	14.9	19.1	27.6
72.5°	7.4	7.4	7.4	8.5	8.5	8.5	8.5	9.6	12.7	15.9	23.4
75°	6.4	6.4	6.4	6.4	7.4	7.4	7.4	8.5	10.6	13.8	19.1
77.5°	5.3	5.3	5.3	5.3	5.3	6.4	6.4	6.4	8.5	10.6	15.9
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.3	6.4	8.5	11.7
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2	5.3	6.4	8.5
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	4.2	5.3
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1	3.2
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°	155.0	155.0	155.0
2.5°	117.8	111.5	108.3
5°	96.6	91.3	90.2
7.5°	89.2	88.1	88.1
10°	87.0	88.1	89.2
12.5°	87.0	89.2	90.2
15°	87.0	89.2	90.2
17.5°	87.0	89.2	90.2
20°	86.0	89.2	91.3
22.5°	84.9	89.2	90.2
25°	83.9	89.2	90.2
27.5°	82.8	88.1	90.2
30°	81.7	88.1	91.3
32.5°	79.6	88.1	91.3
35°	78.6	88.1	91.3
37.5°	77.5	88.1	92.4
40°	76.4	88.1	92.4
42.5°	75.4	88.1	92.4
45°	74.3	87.0	92.4
47.5°	72.2	87.0	92.4
50°	71.1	86.0	91.3
52.5°	69.0	84.9	91.3
55°	66.9	82.8	88.1
57.5°	63.7	79.6	83.9
60°	59.4	75.4	79.6
62.5°	54.1	70.1	73.2
65°	49.9	63.7	67.9
67.5°	43.5	56.3	60.5
70°	38.2	48.8	53.1
72.5°	32.9	41.4	45.6
75°	27.6	34.0	37.2
77.5°	21.2	27.6	29.7
80°	17.0	21.2	23.4
82.5°	11.7	14.9	15.9
85°	7.4	9.6	10.6
87.5°	3.2	4.2	4.2
90°	0.0	0.0	0.0

(END OF REPORT)