

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: P1305968

Luminaire Tested: P3SQAS13R509024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R509024DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

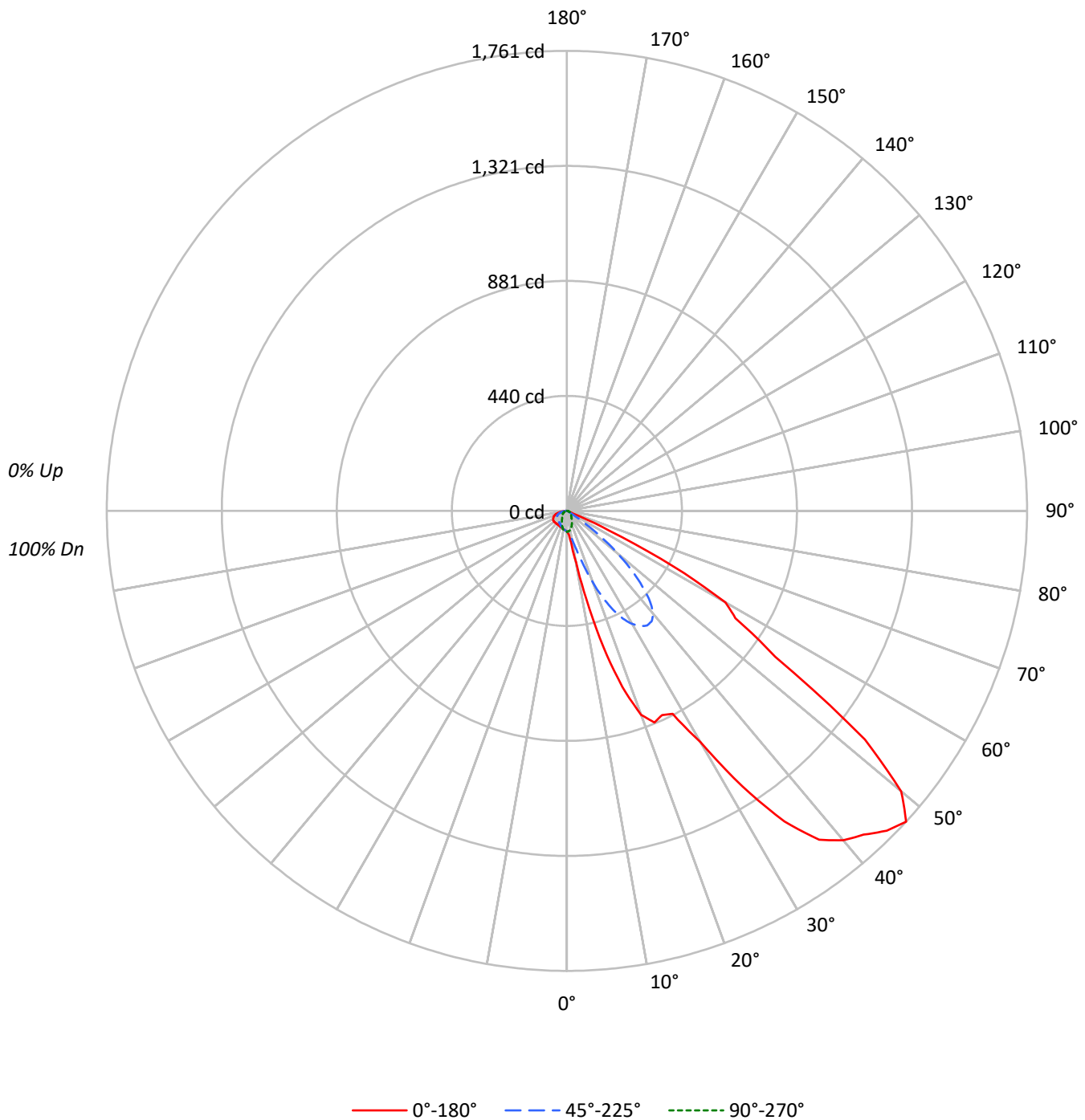
Lumens per Lamp: N/A
Luminaire Lumens: 993.0 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13588	13588	13588	13588	13588
5°	16164	15127	13502	12897	12759
10°	34801	18747	12906	12451	12591
15°	96334	30739	11625	11928	12392
20°	152320	53920	10062	11473	12096
25°	163803	79203	8646	11079	12219
30°	203320	99433	7497	10918	12628
35°	305108	112523	6497	10996	13351
40°	370032	115693	5778	11376	14074
45°	421553	99226	5651	12105	15466
50°	447418	68483	5734	13102	17228
55°	292304	27564	5675	14172	19067
60°	241077	4719	5614	15362	20977
65°	72700	2445	5257	16423	23065
70°	3021	2568	5187	16869	25026
75°	2861	2861	5124	17101	27415
80°	2579	2579	5058	17059	28068
85°	1778	3359	6719	16994	27072

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 448866 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.2	0.8
10°-20°	47.0	4.7
20°-30°	120.9	12.2
30°-40°	217.1	21.9
40°-50°	290.0	29.2
50°-60°	220.9	22.2
60°-70°	67.0	6.8
70°-80°	16.0	1.6
80°-90°	5.8	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°	176.1	17.7
0°-40°	393.2	39.6
0°-60°	904.1	91.1
0°-90°	993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	993.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	79	79	79	79	79	
5°	94	88	78	75	74	12
15°	540	172	65	67	70	159
25°	862	417	46	58	64	411
35°	1451	535	31	52	64	891
45°	1731	407	23	50	64	1323
55°	974	92	19	47	64	968
65°	178	6	13	40	57	247
75°	4	4	8	26	41	5
85°	1	2	3	9	14	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
2.5°	84.1	84.1	84.1	84.1	84.1	84.1	83.2	83.2	83.2	81.5	79.8
5°	93.5	94.3	93.5	93.5	91.8	91.8	90.1	90.1	87.5	82.3	78.1
7.5°	122.7	121.8	120.9	117.5	114.9	108.9	106.4	102.1	94.3	82.3	76.3
10°	199.0	193.8	190.4	182.7	166.4	156.1	142.4	128.7	107.2	82.3	73.8
12.5°	345.7	344.8	334.5	308.8	285.6	253.9	220.4	187.0	132.1	80.6	70.3
15°	540.3	532.6	518.0	488.0	446.9	397.1	337.1	277.9	172.4	78.1	65.2
17.5°	706.7	697.3	686.2	656.1	609.0	546.4	474.3	392.8	227.3	74.6	60.0
20°	831.1	825.1	815.7	791.7	747.1	690.4	609.8	511.2	294.2	70.3	54.9
22.5°	876.6	875.7	877.4	868.8	846.5	801.9	724.8	621.8	360.2	65.2	49.7
25°	862.0	861.1	872.3	883.4	888.6	870.6	811.4	711.0	416.8	60.9	45.5
27.5°	875.7	873.1	868.0	869.7	884.3	894.6	867.1	779.6	465.7	54.9	41.2
30°	1022.4	1007.8	984.6	945.2	916.0	913.4	901.4	833.7	500.0	48.9	37.7
32.5°	1251.4	1233.4	1191.3	1118.4	1049.0	995.8	958.0	879.1	524.1	42.9	33.5
35°	1451.2	1438.4	1389.5	1317.4	1217.9	1118.4	1049.8	946.0	535.2	37.7	30.9
37.5°	1586.7	1581.6	1533.6	1456.4	1355.2	1237.7	1146.7	1014.7	532.6	31.7	28.3
40°	1645.9	1630.5	1590.2	1525.0	1422.9	1317.4	1221.4	1058.4	514.6	25.7	25.7
42.5°	1681.1	1663.9	1620.2	1558.4	1458.1	1345.7	1229.9	1039.5	471.7	20.6	24.9
45°	1730.8	1712.8	1655.3	1589.3	1488.1	1357.7	1196.5	972.6	407.4	15.4	23.2
47.5°	1760.8	1748.8	1706.0	1639.9	1517.3	1340.6	1119.3	910.0	336.2	12.0	22.3
50°	1669.9	1657.9	1626.2	1580.7	1498.4	1283.1	1051.5	808.8	255.6	9.4	21.4
52.5°	1437.5	1447.8	1453.8	1466.7	1406.6	1154.5	950.3	728.2	172.4	7.7	19.7
55°	973.5	988.9	1006.1	1057.5	1127.9	1027.5	844.0	629.5	91.8	7.7	18.9
57.5°	765.1	759.9	754.8	751.3	806.2	847.4	741.9	503.5	39.5	7.7	17.2
60°	699.9	684.4	674.1	676.7	704.2	687.9	587.5	328.5	13.7	7.7	16.3
62.5°	458.9	470.9	494.0	533.5	514.6	441.7	341.4	130.4	6.9	7.7	14.6
65°	178.4	172.4	178.4	189.6	163.8	121.8	76.3	23.2	6.0	6.9	12.9
67.5°	24.0	21.4	16.3	10.3	9.4	8.6	6.9	6.0	6.0	6.9	12.0
70°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.1	5.1	6.0	10.3
72.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.0	8.6
75°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.1	7.7
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.3	6.0
80°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.4	5.1
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.6	2.6	3.4	4.3
85°	0.9	1.7	0.9	1.7	1.7	1.7	1.7	1.7	1.7	2.6	3.4
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	2.6	2.6
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):

	112.5°	135°	157.5°	180°
0°	78.9	78.9	78.9	78.9
2.5°	78.1	76.3	76.3	76.3
5°	76.3	74.6	74.6	73.8
7.5°	73.8	72.9	72.9	72.9
10°	72.0	71.2	72.0	72.0
12.5°	68.6	69.5	70.3	70.3
15°	65.2	66.9	68.6	69.5
17.5°	61.8	65.2	66.9	67.8
20°	58.3	62.6	65.2	66.0
22.5°	55.8	60.0	63.5	65.2
25°	52.3	58.3	62.6	64.3
27.5°	48.9	55.8	60.9	63.5
30°	46.3	54.9	60.9	63.5
32.5°	43.7	53.2	60.0	62.6
35°	42.0	52.3	60.0	63.5
37.5°	40.3	51.5	60.0	62.6
40°	39.5	50.6	60.0	62.6
42.5°	38.6	50.6	60.0	63.5
45°	36.9	49.7	60.0	63.5
47.5°	36.0	49.7	60.0	63.5
50°	35.2	48.9	60.0	64.3
52.5°	34.3	48.0	60.0	64.3
55°	32.6	47.2	59.2	63.5
57.5°	31.7	46.3	58.3	61.8
60°	30.0	44.6	56.6	60.9
62.5°	28.3	42.9	54.9	58.3
65°	25.7	40.3	52.3	56.6
67.5°	23.2	36.9	49.7	54.0
70°	20.6	33.5	46.3	49.7
72.5°	18.0	30.0	42.9	45.5
75°	15.4	25.7	37.7	41.2
77.5°	12.9	22.3	31.7	34.3
80°	9.4	17.2	25.7	28.3
82.5°	7.7	12.9	18.9	20.6
85°	5.1	8.6	12.0	13.7
87.5°	2.6	4.3	6.0	6.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)