

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: P1308058

Luminaire Tested: P3SQAS13R509030DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308058
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: P3SQAS13R509030DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

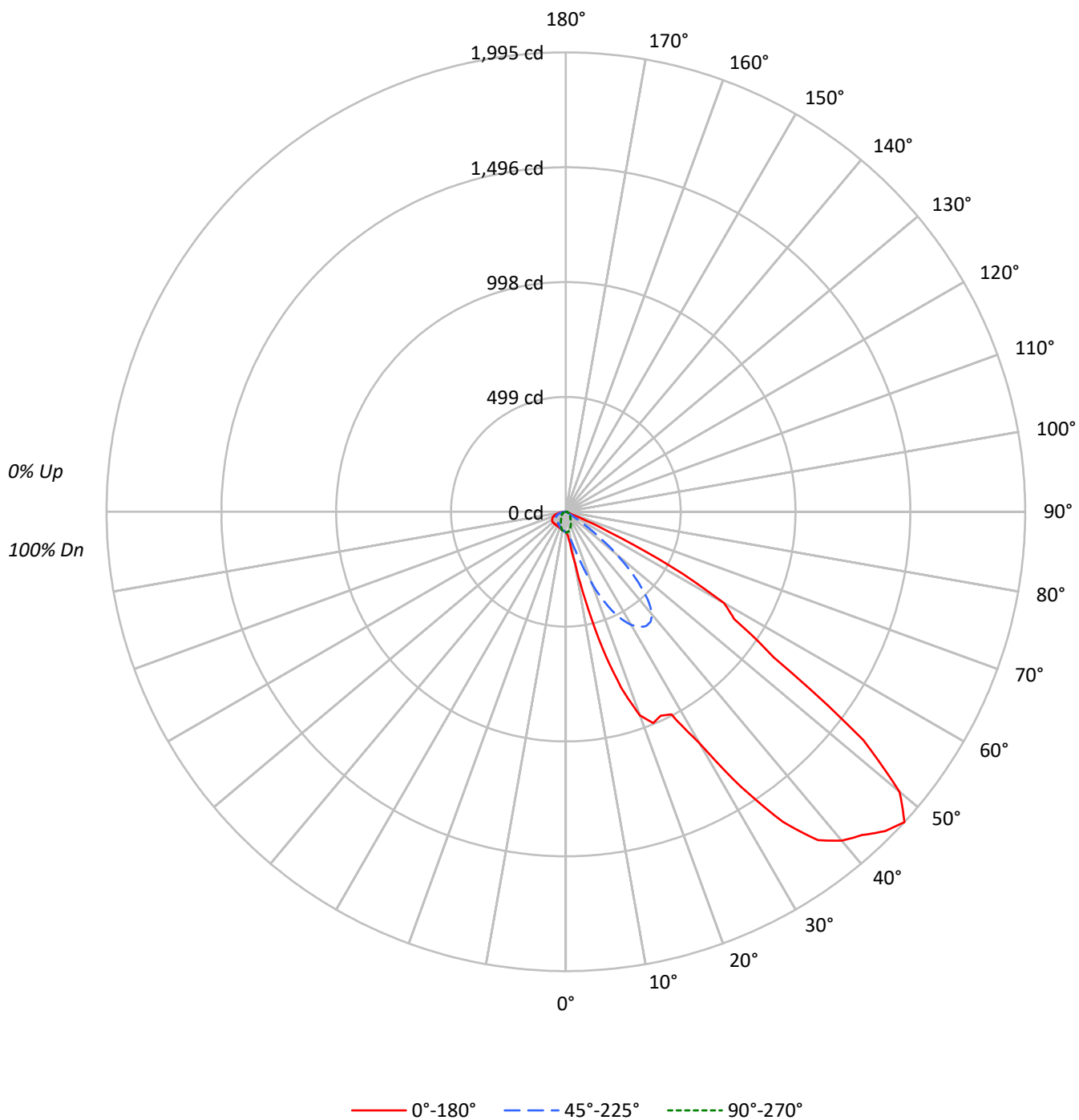
Lumens per Lamp: N/A
Luminaire Lumens: 1125.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	15397	15397	15397	15397	15397
5°	18308	17132	15283	14608	14453
10°	39418	21248	14620	14113	14270
15°	109154	34822	13158	13515	14032
20°	172572	61086	11400	12994	13709
25°	185580	89731	9786	12561	13853
30°	230346	112657	8511	12369	14298
35°	345664	127472	7359	12468	15117
40°	419223	131070	6565	12882	15940
45°	477596	112427	6381	13737	17512
50°	506898	77593	6511	14843	19532
55°	331158	31227	6426	16034	21589
60°	273111	5339	6372	17394	23767
65°	82358	2771	5950	18623	26122
70°	3424	2921	5891	19084	28400
75°	3261	3261	5789	19430	31008
80°	2876	2876	5752	19241	31836
85°	1976	3754	7707	19168	30629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 508543 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	0.8
10°-20°	53.3	4.7
20°-30°	136.9	12.2
30°-40°	246.0	21.9
40°-50°	328.6	29.2
50°-60°	250.3	22.2
60°-70°	76.0	6.8
70°-80°	18.2	1.6
80°-90°	6.6	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°	199.5	17.7
0°-40°	445.5	39.6
0°-60°	1024.3	91.1
0°-90°	1125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1125.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	89	89	89	89	89	
5°	106	99	88	84	84	14
15°	612	195	74	76	79	180
25°	977	472	52	66	73	466
35°	1644	606	35	59	72	1009
45°	1961	462	26	56	72	1499
55°	1103	104	21	53	72	1097
65°	202	7	15	46	64	280
75°	5	5	9	29	47	5
85°	1	2	4	10	16	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°	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
2.5°	95.2	95.2	95.2	95.2	95.2	95.2	94.3	94.3	94.3	92.3	90.4
5°	105.9	106.9	105.9	105.9	104.0	104.0	102.0	102.0	99.1	93.3	88.4
7.5°	139.0	138.0	137.0	133.1	130.2	123.4	120.5	115.6	106.9	93.3	86.5
10°	225.4	219.6	215.7	207.0	188.5	176.9	161.3	145.8	121.5	93.3	83.6
12.5°	391.6	390.6	379.0	349.8	323.6	287.6	249.7	211.8	149.6	91.3	79.7
15°	612.2	603.4	586.9	552.9	506.3	449.9	381.9	314.8	195.3	88.4	73.8
17.5°	800.7	790.0	777.4	743.4	689.9	619.0	537.4	445.0	257.5	84.5	68.0
20°	941.6	934.8	924.1	896.9	846.4	782.2	690.9	579.1	333.3	79.7	62.2
22.5°	993.1	992.1	994.1	984.3	959.1	908.5	821.1	704.5	408.1	73.8	56.4
25°	976.6	975.6	988.2	1000.9	1006.7	986.3	919.2	805.5	472.2	69.0	51.5
27.5°	992.1	989.2	983.4	985.3	1001.8	1013.5	982.4	883.3	527.6	62.2	46.6
30°	1158.3	1141.8	1115.5	1070.8	1037.8	1034.9	1021.3	944.5	566.5	55.4	42.8
32.5°	1417.7	1397.3	1349.7	1267.1	1188.4	1128.2	1085.4	996.0	593.7	48.6	37.9
35°	1644.1	1629.6	1574.2	1492.5	1379.8	1267.1	1189.4	1071.8	606.3	42.8	35.0
37.5°	1797.7	1791.8	1737.4	1650.0	1535.3	1402.2	1299.2	1149.5	603.4	36.0	32.1
40°	1864.7	1847.2	1801.5	1727.7	1612.1	1492.5	1383.7	1199.1	583.0	29.2	29.2
42.5°	1904.5	1885.1	1835.6	1765.6	1651.9	1524.6	1393.4	1177.7	534.4	23.3	28.2
45°	1960.9	1940.5	1875.4	1800.6	1685.9	1538.2	1355.5	1101.9	461.6	17.5	26.2
47.5°	1994.9	1981.3	1932.7	1857.9	1718.9	1518.8	1268.1	1031.0	380.9	13.6	25.3
50°	1891.9	1878.3	1842.4	1790.9	1697.6	1453.7	1191.3	916.3	289.6	10.7	24.3
52.5°	1628.6	1640.2	1647.0	1661.6	1593.6	1307.9	1076.7	825.0	195.3	8.7	22.3
55°	1102.9	1120.4	1139.8	1198.1	1277.8	1164.1	956.2	713.2	104.0	8.7	21.4
57.5°	866.8	860.9	855.1	851.2	913.4	960.0	840.5	570.4	44.7	8.7	19.4
60°	792.9	775.4	763.8	766.7	797.8	779.3	665.6	372.2	15.5	8.7	18.5
62.5°	519.9	533.5	559.7	604.4	583.0	500.4	386.7	147.7	7.8	8.7	16.5
65°	202.1	195.3	202.1	214.7	185.6	138.0	86.5	26.2	6.8	7.8	14.6
67.5°	27.2	24.3	18.5	11.7	10.7	9.7	7.8	6.8	6.8	7.8	13.6
70°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	5.8	5.8	6.8	11.7
72.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.8	9.7
75°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.8	8.7
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.9	6.8
80°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.9	5.8
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.9	2.9	3.9	4.9
85°	1.0	1.9	1.0	1.9	1.9	1.9	1.9	1.9	1.9	2.9	3.9
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	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):

	112.5°	135°	157.5°	180°
0°	89.4	89.4	89.4	89.4
2.5°	88.4	86.5	86.5	86.5
5°	86.5	84.5	84.5	83.6
7.5°	83.6	82.6	82.6	82.6
10°	81.6	80.7	81.6	81.6
12.5°	77.7	78.7	79.7	79.7
15°	73.8	75.8	77.7	78.7
17.5°	70.0	73.8	75.8	76.8
20°	66.1	70.9	73.8	74.8
22.5°	63.2	68.0	71.9	73.8
25°	59.3	66.1	70.9	72.9
27.5°	55.4	63.2	69.0	71.9
30°	52.5	62.2	69.0	71.9
32.5°	49.6	60.2	68.0	70.9
35°	47.6	59.3	68.0	71.9
37.5°	45.7	58.3	68.0	70.9
40°	44.7	57.3	68.0	70.9
42.5°	43.7	57.3	68.0	71.9
45°	41.8	56.4	68.0	71.9
47.5°	40.8	56.4	68.0	71.9
50°	39.8	55.4	68.0	72.9
52.5°	38.9	54.4	68.0	72.9
55°	36.9	53.4	67.0	71.9
57.5°	36.0	52.5	66.1	70.0
60°	34.0	50.5	64.1	69.0
62.5°	32.1	48.6	62.2	66.1
65°	29.2	45.7	59.3	64.1
67.5°	26.2	41.8	56.4	61.2
70°	23.3	37.9	52.5	56.4
72.5°	20.4	34.0	48.6	51.5
75°	17.5	29.2	42.8	46.6
77.5°	14.6	25.3	36.0	38.9
80°	10.7	19.4	29.2	32.1
82.5°	8.7	14.6	21.4	23.3
85°	5.8	9.7	13.6	15.5
87.5°	2.9	4.9	6.8	7.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)