

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: P1311362

Luminaire Tested: P3SQAS13R459050DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R459050DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

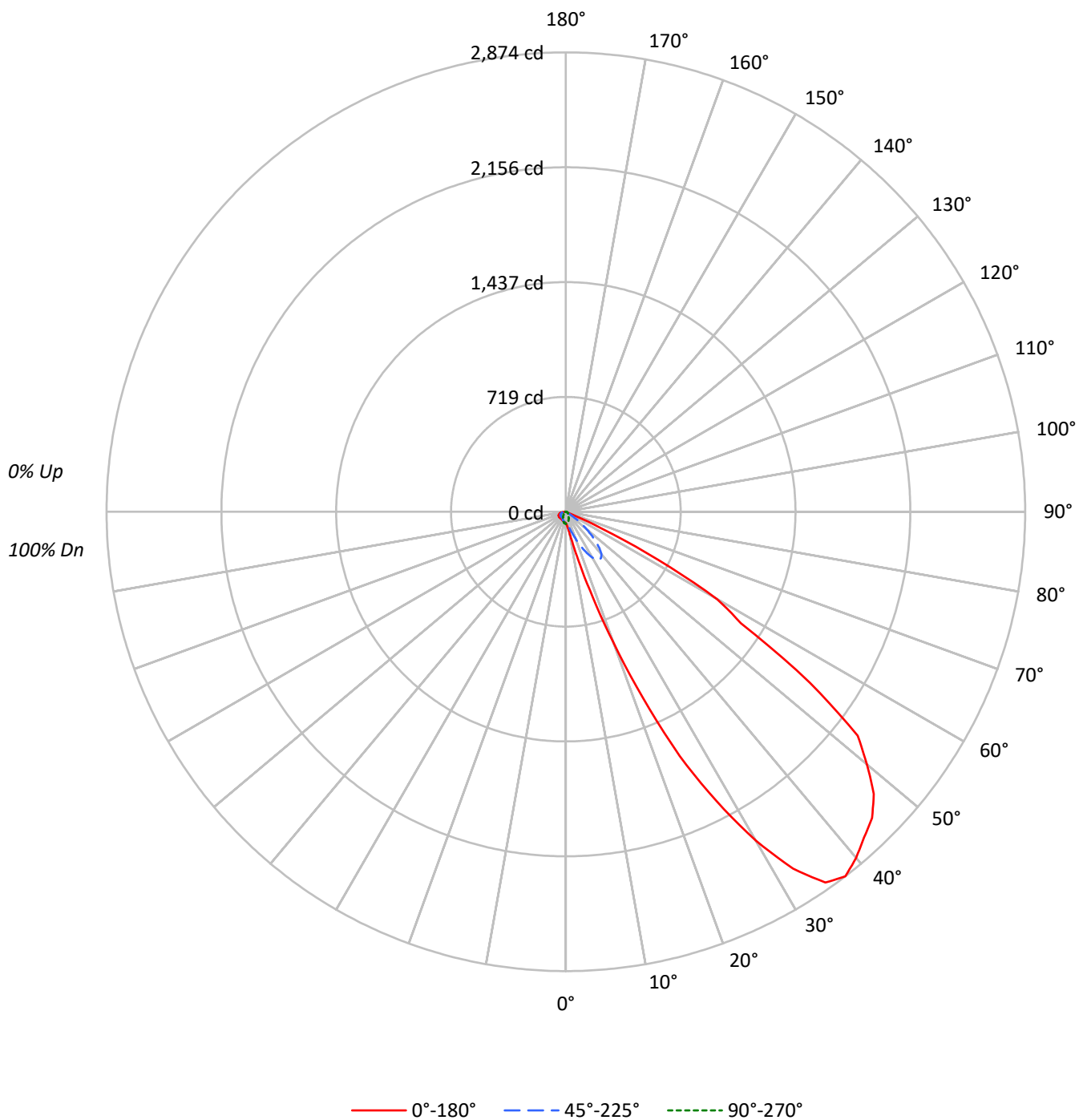
Lumens per Lamp: N/A
Luminaire Lumens: 1284.0 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12796	12796	12796	12796	12796
5°	15231	14124	12655	11739	11739
10°	24308	16509	11874	11140	11140
15°	60532	22127	10787	10413	10787
20°	159450	33063	9329	9915	10502
25°	320157	48989	8057	9273	10280
30°	471968	65626	6543	9068	10540
35°	595330	76950	5571	8914	10933
40°	635186	77765	5014	9308	11691
45°	659949	64860	4652	10083	12665
50°	658922	45200	4555	10798	14200
55°	560017	20057	4774	12101	15614
60°	376410	4030	4753	13537	17911
65°	99882	1712	4768	14711	20335
70°	2669	2115	4784	16013	22962
75°	2129	2129	4924	16968	26151
80°	2083	3174	5256	17852	29456
85°	2174	4150	8299	18772	29443

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 676945 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	0.6
10°-20°	36.2	2.8
20°-30°	149.4	11.6
30°-40°	314.8	24.5
40°-50°	388.4	30.2
50°-60°	291.1	22.7
60°-70°	74.9	5.8
70°-80°	15.5	1.2
80°-90°	6.3	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°	193.0	15.0
0°-40°	507.8	39.5
0°-60°	1187.3	92.5
0°-90°	1284.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1284.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	74	74	74	74	74	
5°	88	82	73	68	68	10
15°	340	124	60	58	60	124
25°	1685	258	42	49	54	785
35°	2832	366	26	42	52	1726
45°	2710	266	19	41	52	2073
55°	1865	67	16	40	52	1610
65°	245	4	12	36	50	353
75°	3	3	7	26	39	4
85°	1	2	4	10	15	1
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°	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
2.5°	78.5	78.5	78.5	78.5	78.5	78.5	78.5	77.4	76.4	74.3	72.1
5°	88.1	87.0	87.0	87.0	85.9	84.9	84.9	81.7	77.4	73.2	70.0
7.5°	104.0	104.0	102.9	100.8	99.7	97.6	95.5	87.0	77.4	71.1	66.8
10°	139.0	136.9	133.7	131.6	126.3	118.8	113.5	94.4	76.4	67.9	64.7
12.5°	207.9	212.2	201.6	191.0	176.1	162.3	145.3	107.2	76.4	64.7	61.5
15°	339.5	346.9	326.8	305.6	269.5	235.5	203.7	124.1	74.3	60.5	57.3
17.5°	554.9	564.4	530.5	480.6	424.4	356.5	298.1	147.5	72.1	56.2	54.1
20°	870.0	868.9	803.1	740.5	632.3	532.6	423.3	180.4	69.0	50.9	50.9
22.5°	1257.2	1261.5	1180.8	1068.4	914.5	754.3	580.3	218.6	64.7	46.7	47.7
25°	1684.8	1648.7	1553.2	1416.4	1220.1	998.3	769.2	257.8	60.5	42.4	44.6
27.5°	2041.2	2006.2	1897.0	1734.6	1523.5	1260.4	961.2	297.1	55.2	38.2	41.4
30°	2373.3	2328.8	2197.2	2013.7	1762.2	1477.9	1141.6	330.0	48.8	32.9	38.2
32.5°	2647.0	2606.7	2457.1	2243.9	1970.2	1664.6	1294.3	355.4	42.4	29.7	36.1
35°	2831.6	2790.3	2652.3	2417.9	2119.8	1800.4	1418.5	366.0	37.1	26.5	35.0
37.5°	2874.1	2851.8	2753.1	2533.5	2222.7	1887.4	1498.0	362.8	30.8	24.4	32.9
40°	2825.3	2830.6	2783.9	2601.4	2277.8	1924.5	1530.9	345.9	25.5	22.3	31.8
42.5°	2762.7	2776.5	2773.3	2629.0	2301.2	1926.7	1517.1	311.9	20.2	20.2	30.8
45°	2709.6	2723.4	2742.5	2617.3	2285.3	1899.1	1473.6	266.3	14.9	19.1	30.8
47.5°	2613.1	2627.9	2655.5	2524.0	2204.6	1828.0	1395.1	216.4	10.6	18.0	29.7
50°	2459.3	2466.7	2459.3	2311.8	2049.7	1713.4	1267.8	168.7	7.4	17.0	29.7
52.5°	2301.2	2286.3	2224.8	2038.1	1803.6	1532.0	1107.6	119.9	5.3	15.9	28.6
55°	1865.1	1841.8	1796.2	1681.6	1547.9	1309.2	895.4	66.8	5.3	15.9	27.6
57.5°	1299.6	1312.4	1328.3	1305.0	1243.4	1031.2	680.1	29.7	5.3	14.9	27.6
60°	1092.8	1082.2	1083.2	1068.4	966.5	752.2	467.9	11.7	5.3	13.8	26.5
62.5°	652.5	659.9	673.7	676.9	576.1	420.1	245.1	5.3	5.3	12.7	25.5
65°	245.1	256.7	224.9	195.2	154.9	113.5	57.3	4.2	6.4	11.7	23.3
67.5°	7.4	8.5	10.6	9.5	9.5	8.5	6.4	4.2	6.4	10.6	22.3
70°	5.3	5.3	5.3	5.3	5.3	4.2	4.2	4.2	5.3	9.5	20.2
72.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.3	8.5	18.0
75°	3.2	4.2	3.2	3.2	3.2	3.2	3.2	3.2	5.3	7.4	14.9
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2	6.4	12.7
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	4.2	5.3	10.6
82.5°	2.1	2.1	2.1	1.1	2.1	2.1	2.1	2.1	4.2	4.2	8.5
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	3.2	4.2	5.3
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	2.1	3.2	3.2	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°	74.3	74.3	74.3
2.5°	70.0	70.0	70.0
5°	67.9	67.9	67.9
7.5°	65.8	65.8	65.8
10°	63.7	63.7	63.7
12.5°	61.5	61.5	62.6
15°	58.4	60.5	60.5
17.5°	56.2	58.4	59.4
20°	54.1	56.2	57.3
22.5°	50.9	54.1	56.2
25°	48.8	53.0	54.1
27.5°	46.7	52.0	54.1
30°	45.6	50.9	53.0
32.5°	43.5	49.9	52.0
35°	42.4	49.9	52.0
37.5°	42.4	48.8	52.0
40°	41.4	48.8	52.0
42.5°	41.4	48.8	52.0
45°	41.4	48.8	52.0
47.5°	40.3	48.8	53.0
50°	40.3	49.9	53.0
52.5°	40.3	49.9	53.0
55°	40.3	49.9	52.0
57.5°	39.3	48.8	52.0
60°	39.3	48.8	52.0
62.5°	37.1	47.7	50.9
65°	36.1	46.7	49.9
67.5°	34.0	45.6	47.7
70°	31.8	42.4	45.6
72.5°	28.6	40.3	43.5
75°	25.5	37.1	39.3
77.5°	22.3	32.9	35.0
80°	18.0	27.6	29.7
82.5°	13.8	21.2	22.3
85°	9.5	13.8	14.9
87.5°	4.2	6.4	7.4
90°	0.0	0.0	0.0

(END OF REPORT)