

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: P1316300

Luminaire Tested: P3SQAS13R559827DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R559827DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 98CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

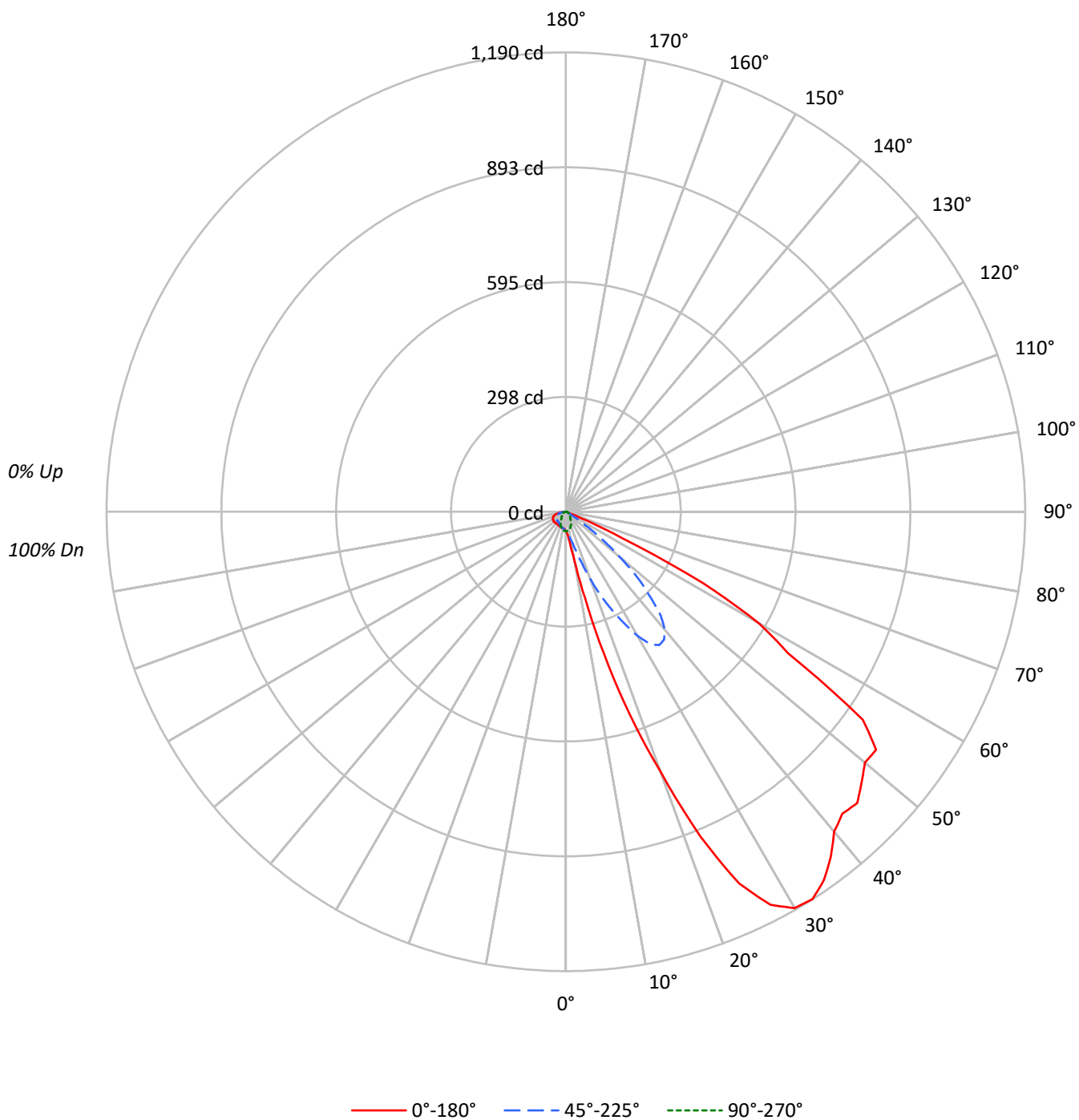
Lumens per Lamp: N/A
Luminaire Lumens: 765.0 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	100	100
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86	86	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73	73
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61	61	61
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51	51	51
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43	43	43
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37	37	37
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32	32	32
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27	27	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24	24	24
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21	21	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8491	8491	8491	8491	8491
5°	10874	9941	8523	7953	7710
10°	22105	12644	8272	7572	7572
15°	67842	19399	7720	7346	7595
20°	131189	33943	6946	7184	7551
25°	201922	52789	6043	6936	7582
30°	235775	73799	4972	6861	7796
35°	244999	88681	4121	6812	8094
40°	243144	89501	3799	7149	8813
45°	259951	74091	3629	7745	9548
50°	270932	48897	3617	8333	10690
55°	282095	21319	3663	9128	11770
60°	199296	4891	3720	10023	13261
65°	64998	1671	3586	10758	14874
70°	2065	1712	3726	11582	17020
75°	1797	1797	3127	12111	18898
80°	1389	1984	3372	12100	20133
85°	1383	2766	3952	12054	19958

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 286641 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.7
10°-20°	32.5	4.2
20°-30°	108.9	14.2
30°-40°	178.8	23.4
40°-50°	199.4	26.1
50°-60°	167.9	21.9
60°-70°	57.0	7.4
70°-80°	11.1	1.5
80°-90°	4.2	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°	146.6	19.2
0°-40°	325.4	42.5
0°-60°	692.7	90.6
0°-90°	765.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	765.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	49	49	49	49	49	
5°	63	58	49	46	45	8
15°	380	109	43	41	43	121
25°	1063	278	32	36	40	478
35°	1165	422	20	32	38	724
45°	1067	304	15	32	39	815
55°	940	71	12	30	39	765
65°	160	4	9	26	36	216
75°	3	3	5	18	28	3
85°	1	1	2	6	10	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
2.5°	54.1	54.1	54.1	54.1	54.1	54.1	53.4	51.4	50.0	48.0	47.3
5°	62.9	62.9	62.9	62.2	62.2	60.8	57.5	52.7	49.3	46.6	46.0
7.5°	81.1	80.4	79.1	78.4	76.4	75.7	63.5	54.1	48.7	45.3	44.6
10°	126.4	125.0	123.0	115.6	108.8	104.1	72.3	54.7	47.3	43.9	43.3
12.5°	227.8	225.1	214.9	199.4	180.5	171.0	86.5	55.4	45.3	42.6	42.6
15°	380.5	377.2	358.2	336.6	302.1	283.2	108.8	54.7	43.3	40.6	41.2
17.5°	549.5	540.1	520.5	492.1	445.4	423.1	141.9	53.4	40.6	39.2	40.6
20°	715.8	713.1	680.7	642.1	584.7	554.9	185.2	51.4	37.9	37.2	39.2
22.5°	910.5	899.0	864.5	823.3	744.2	705.0	231.8	48.7	35.1	35.1	37.9
25°	1062.6	1049.0	1022.0	974.0	899.0	857.1	277.8	45.3	31.8	33.1	36.5
27.5°	1147.7	1132.2	1111.9	1070.7	1012.5	975.4	323.8	41.2	28.4	31.1	35.1
30°	1185.6	1181.5	1166.6	1136.2	1082.8	1049.7	371.1	36.5	25.0	29.1	34.5
32.5°	1189.6	1191.7	1185.6	1166.0	1125.4	1097.0	406.2	32.4	22.3	27.7	33.1
35°	1165.3	1172.7	1176.8	1168.7	1142.3	1119.3	421.8	27.7	19.6	26.4	32.4
37.5°	1127.4	1141.0	1154.5	1156.5	1140.3	1125.4	417.7	23.7	18.2	25.7	32.4
40°	1081.5	1093.6	1121.4	1138.9	1133.5	1122.7	398.1	19.6	16.9	24.3	31.8
42.5°	1060.5	1063.2	1093.0	1122.7	1121.4	1112.6	363.6	15.5	15.5	24.3	31.8
45°	1067.3	1055.1	1074.7	1109.2	1107.2	1095.7	304.2	12.2	14.9	23.7	31.8
47.5°	1038.9	1022.0	1055.1	1095.7	1088.2	1071.3	251.4	8.8	14.2	23.0	31.1
50°	1011.2	1008.5	1034.2	1054.4	1044.3	1034.8	182.5	6.8	13.5	22.3	31.1
52.5°	1013.2	1008.5	1011.2	1010.5	990.2	980.1	125.0	5.4	12.8	21.6	31.1
55°	939.5	924.7	910.5	914.5	915.9	909.1	71.0	4.7	12.2	21.6	30.4
57.5°	682.7	678.6	694.2	738.1	772.6	776.6	34.5	4.7	11.5	21.0	29.7
60°	578.6	575.9	576.6	589.4	607.7	596.2	14.2	4.7	10.8	20.3	29.1
62.5°	398.8	425.2	436.0	465.7	453.5	437.3	5.4	5.4	10.1	18.9	28.4
65°	159.5	158.8	173.7	187.9	183.9	171.7	4.1	4.7	8.8	17.6	26.4
67.5°	37.2	33.8	29.1	25.0	21.0	16.9	4.1	4.7	8.1	16.2	25.0
70°	4.1	4.1	4.1	4.1	4.1	3.4	3.4	4.7	7.4	14.9	23.0
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.1	6.1	12.8	21.0
75°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.4	4.7	10.8	18.2
77.5°	2.0	2.0	2.0	2.7	2.0	2.7	2.7	3.4	4.1	8.8	15.5
80°	1.4	1.4	2.0	2.0	2.0	2.0	2.0	2.7	3.4	7.4	12.2
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.0	2.7	5.4	8.8
85°	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.0	2.0	4.1	6.1
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.0	2.0	2.7
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):

	157.5°	180°
0°	49.3	49.3
2.5°	46.6	46.6
5°	45.3	44.6
7.5°	43.9	43.9
10°	43.3	43.3
12.5°	42.6	43.3
15°	42.6	42.6
17.5°	41.2	41.9
20°	40.6	41.2
22.5°	39.9	40.6
25°	39.2	39.9
27.5°	38.5	39.2
30°	37.9	39.2
32.5°	37.2	38.5
35°	37.2	38.5
37.5°	37.2	39.2
40°	37.2	39.2
42.5°	37.2	39.2
45°	37.2	39.2
47.5°	37.2	39.2
50°	37.2	39.9
52.5°	37.2	39.9
55°	37.2	39.2
57.5°	36.5	39.2
60°	36.5	38.5
62.5°	35.8	37.9
65°	34.5	36.5
67.5°	33.1	35.8
70°	31.1	33.8
72.5°	29.1	31.1
75°	26.4	28.4
77.5°	23.0	24.3
80°	18.2	20.3
82.5°	14.2	15.5
85°	9.5	10.1
87.5°	4.1	4.7
90°	0.0	0.0

(END OF REPORT)