

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: P1313485

Luminaire Tested: P3SQAS13R659730DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R659730DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

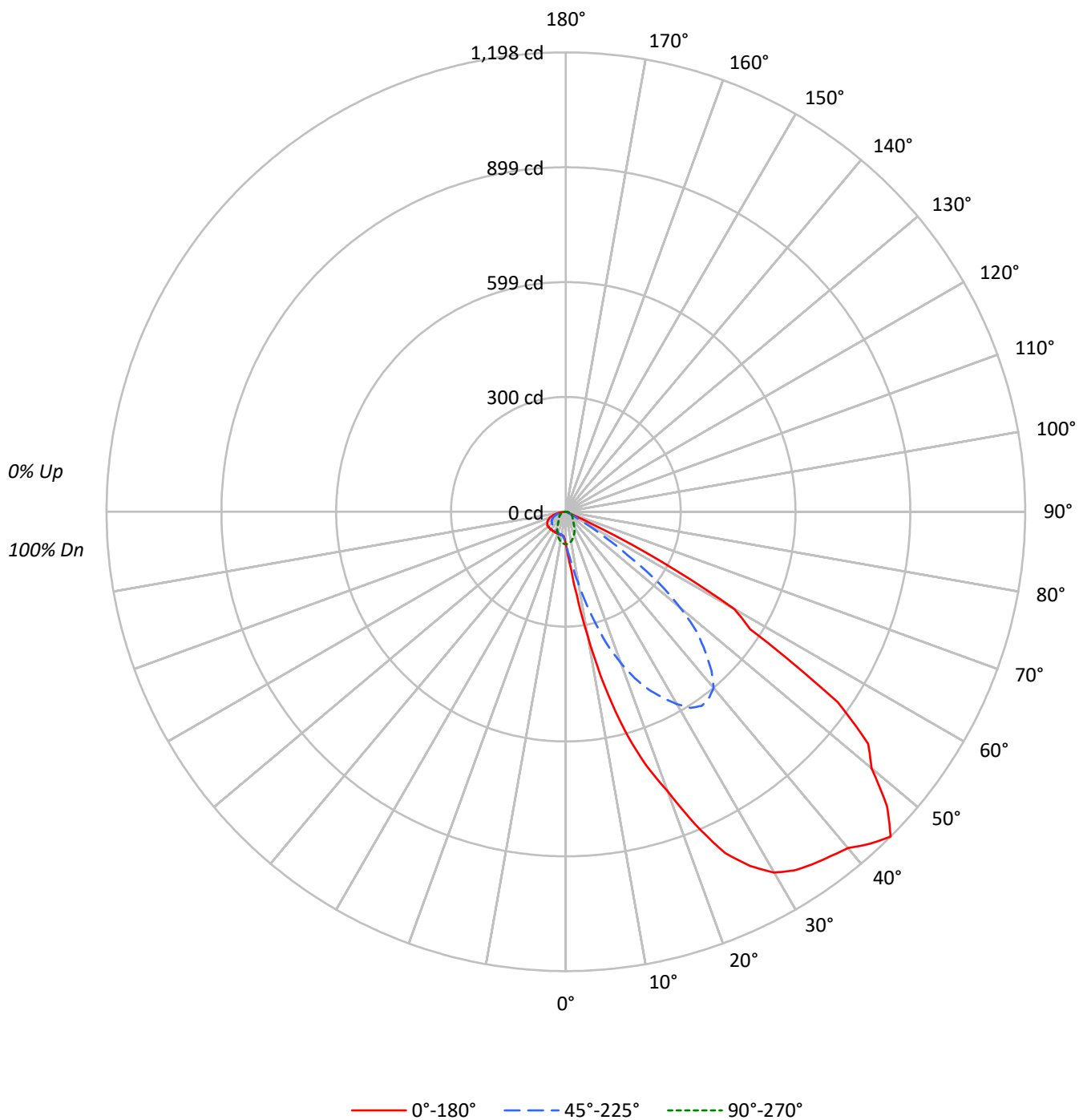
Lumens per Lamp: N/A
Luminaire Lumens: 869.0 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14553	14553	14553	14553	14553
5°	25465	20780	14315	11600	11151
10°	57605	33524	13711	10668	10825
15°	104714	53899	12730	10716	11037
20°	141965	76976	11491	10703	11180
25°	186606	97199	10109	10432	11421
30°	216067	115223	8671	10401	11952
35°	235958	129889	7338	10617	12636
40°	257397	134780	6475	11174	13512
45°	291809	124995	6162	11886	14638
50°	278755	104359	6082	12620	16103
55°	259786	58611	6275	13602	17775
60°	174978	12607	6303	14398	19220
65°	26977	3179	6031	14915	20946
70°	3072	3072	5690	15358	22357
75°	2928	2928	5190	15105	22624
80°	2579	3471	5157	13786	22514
85°	1778	3359	5138	13832	20748

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 291809 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.2	1.2
10°-20°	55.3	6.4
20°-30°	129.8	14.9
30°-40°	196.1	22.6
40°-50°	225.5	25.9
50°-60°	179.0	20.6
60°-70°	53.6	6.2
70°-80°	14.6	1.7
80°-90°	4.9	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°	195.3	22.5
0°-40°	391.5	45.0
0°-60°	795.9	91.6
0°-90°	869.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	869.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	84	84	84	84	84	
5°	147	120	83	67	64	20
15°	587	302	71	60	62	169
25°	982	512	53	55	60	448
35°	1122	618	35	50	60	704
45°	1198	513	25	49	60	890
55°	865	195	21	45	59	713
65°	66	8	15	37	51	148
75°	4	4	8	23	34	5
85°	1	2	3	7	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°	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
2.5°	107.2	108.0	107.2	107.2	106.3	105.4	99.3	92.4	84.5	78.4	74.1
5°	147.3	148.1	145.5	145.5	143.8	141.2	120.2	100.2	82.8	73.2	67.1
7.5°	217.8	221.3	217.0	211.7	202.1	200.4	149.9	108.0	81.0	68.0	62.7
10°	329.4	326.7	322.4	311.9	295.4	287.5	191.7	115.9	78.4	64.5	61.0
12.5°	464.4	457.4	452.2	433.0	410.4	397.3	244.0	122.9	74.9	61.0	60.1
15°	587.3	582.0	569.8	551.5	523.7	513.2	302.3	127.2	71.4	58.4	60.1
17.5°	691.0	685.7	678.8	660.5	631.7	616.0	367.7	129.8	67.1	56.6	59.2
20°	774.6	771.1	761.5	746.7	718.0	703.2	420.0	129.8	62.7	54.9	58.4
22.5°	882.6	874.8	862.6	840.8	805.1	782.4	469.6	127.2	58.4	53.2	56.6
25°	982.0	976.7	961.1	934.9	896.6	873.9	511.5	122.0	53.2	50.5	54.9
27.5°	1041.2	1037.7	1022.9	995.9	953.2	935.8	546.3	114.1	47.9	47.9	54.0
30°	1086.5	1079.6	1064.7	1038.6	995.0	974.1	579.4	104.6	43.6	45.3	52.3
32.5°	1109.2	1106.6	1093.5	1070.8	1028.2	1004.6	606.4	92.4	38.3	43.6	51.4
35°	1122.3	1119.6	1109.2	1087.4	1047.3	1024.7	617.8	81.0	34.9	41.8	50.5
37.5°	1132.7	1130.1	1117.0	1095.2	1055.2	1031.6	612.5	68.8	31.4	40.1	49.7
40°	1144.9	1135.3	1115.3	1093.5	1056.9	1034.3	599.5	57.5	28.8	39.2	49.7
42.5°	1174.5	1141.4	1110.1	1090.0	1055.2	1029.0	562.0	45.3	26.1	37.5	48.8
45°	1198.1	1139.7	1099.6	1083.9	1048.2	1018.6	513.2	33.1	25.3	36.6	48.8
47.5°	1136.2	1100.5	1082.2	1073.5	1035.1	1002.9	462.7	22.7	24.4	35.7	47.9
50°	1040.4	1036.0	1029.0	1029.9	995.0	968.9	389.5	15.7	22.7	34.9	47.1
52.5°	994.2	988.9	976.7	968.0	933.2	910.5	308.4	12.2	21.8	34.0	46.2
55°	865.2	868.7	855.6	860.9	850.4	839.1	195.2	11.3	20.9	32.2	45.3
57.5°	569.8	587.3	617.8	654.4	687.5	710.1	105.4	11.3	19.2	31.4	43.6
60°	508.0	503.6	502.7	509.7	524.5	536.7	36.6	10.5	18.3	28.8	41.8
62.5°	277.9	276.2	302.3	346.8	372.9	375.5	10.5	10.5	16.6	27.0	39.2
65°	66.2	68.8	76.7	95.8	113.3	124.6	7.8	9.6	14.8	25.3	36.6
67.5°	10.5	11.3	11.3	13.9	15.7	15.7	7.0	8.7	13.1	22.7	34.0
70°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.8	11.3	20.0	30.5
72.5°	5.2	5.2	5.2	5.2	5.2	5.2	6.1	7.0	9.6	17.4	26.1
75°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	6.1	7.8	13.9	22.7
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	4.4	5.2	7.0	11.3	18.3
80°	2.6	2.6	2.6	2.6	2.6	2.6	3.5	4.4	5.2	8.7	13.9
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	2.6	3.5	4.4	7.0	10.5
85°	0.9	0.9	0.9	0.9	1.7	1.7	1.7	2.6	2.6	4.4	7.0
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7	2.6	3.5
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°	84.5	84.5
2.5°	71.4	70.6
5°	64.5	64.5
7.5°	61.9	61.9
10°	61.0	61.9
12.5°	61.0	61.9
15°	61.0	61.9
17.5°	61.0	61.9
20°	60.1	61.0
22.5°	59.2	60.1
25°	58.4	60.1
27.5°	57.5	60.1
30°	57.5	60.1
32.5°	57.5	60.1
35°	56.6	60.1
37.5°	56.6	60.1
40°	56.6	60.1
42.5°	56.6	60.1
45°	56.6	60.1
47.5°	56.6	60.1
50°	56.6	60.1
52.5°	55.8	60.1
55°	55.8	59.2
57.5°	54.0	57.5
60°	52.3	55.8
62.5°	50.5	54.0
65°	47.9	51.4
67.5°	45.3	47.9
70°	41.0	44.4
72.5°	36.6	39.2
75°	31.4	34.0
77.5°	26.1	28.8
80°	20.9	22.7
82.5°	14.8	16.6
85°	9.6	10.5
87.5°	4.4	4.4
90°	0.0	0.0

(END OF REPORT)