

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: P1313302

Luminaire Tested: P3SQAS09R559730DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313302
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: P3SQAS09R559730DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

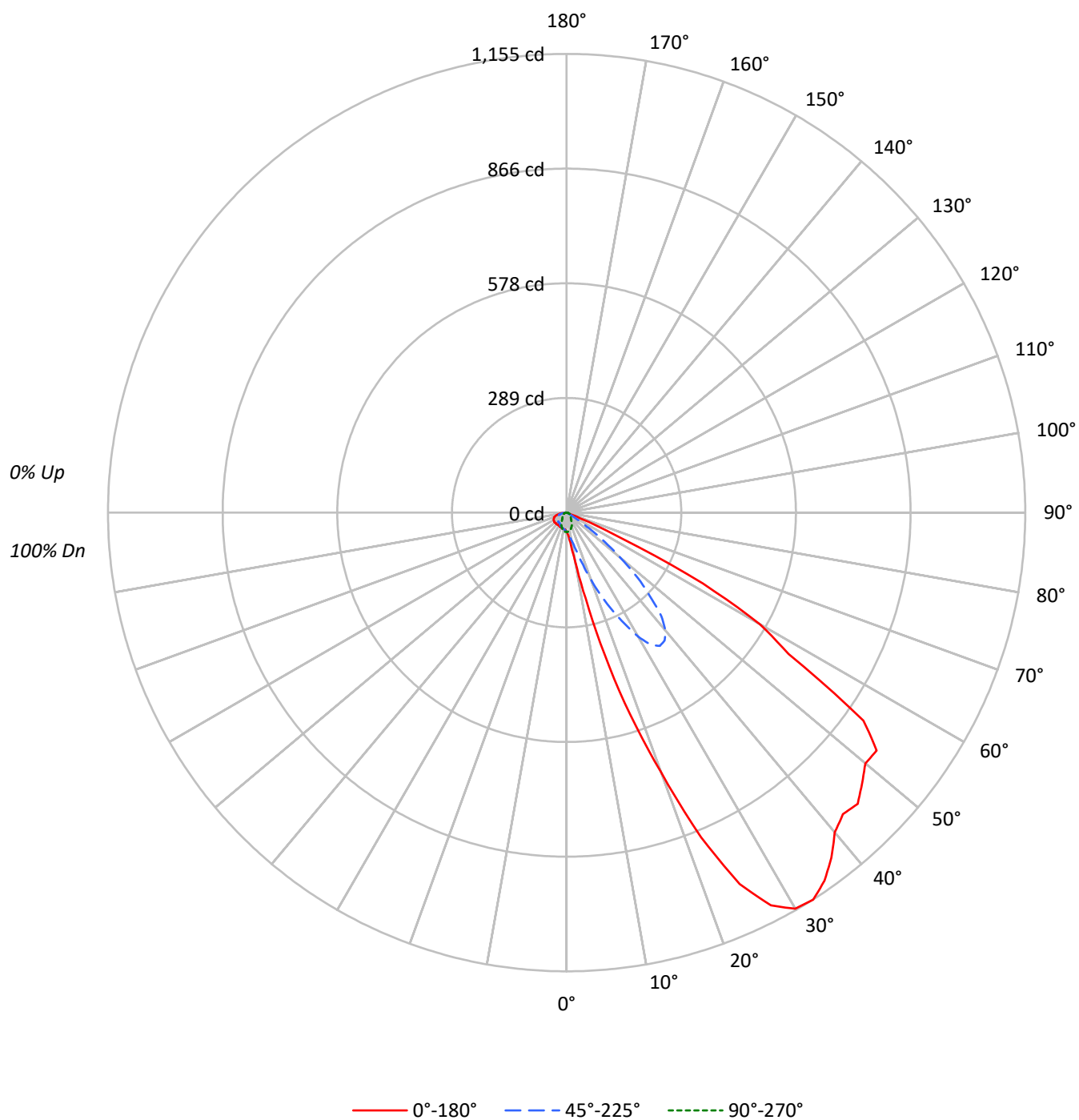
Lumens per Lamp: N/A
Luminaire Lumens: 743.0 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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

TEST NUMBER: P1313302

CATALOG NUMBER: P3SQAS09R559730DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1313302

CATALOG NUMBER: P3SQAS09R559730DE010 E3SQCA451MMS

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8249	8249	8249	8249	8249
5°	10563	9647	8281	7710	7486
10°	21475	12277	8044	7345	7345
15°	65899	18846	7489	7132	7382
20°	127413	32971	6745	6983	7331
25°	196108	51269	5872	6746	7354
30°	228994	71671	4832	6662	7577
35°	237955	86116	3995	6623	7863
40°	236152	86938	3687	6947	8566
45°	252474	71948	3507	7526	9280
50°	263135	47504	3510	8092	10369
55°	273988	20688	3543	8858	11440
60°	193578	4753	3617	9713	12882
65°	63124	1589	3464	10432	14467
70°	1964	1662	3626	11229	16516
75°	1730	1730	3061	11778	18366
80°	1289	1984	3273	11703	19538
85°	1383	2569	3952	11659	19365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 278408 cd/sqm

TEST NUMBER: P1313302

CATALOG NUMBER: P3SQAS09R559730DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	0.7
10°-20°	31.5	4.2
20°-30°	105.8	14.2
30°-40°	173.7	23.4
40°-50°	193.7	26.1
50°-60°	163.1	21.9
60°-70°	55.3	7.4
70°-80°	10.8	1.5
80°-90°	4.1	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°	142.4	19.2
0°-40°	316.1	42.5
0°-60°	672.8	90.6
0°-90°	743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	743.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	61	56	48	45	43	8
15°	370	106	42	40	41	117
25°	1032	270	31	36	39	464
35°	1132	410	19	32	37	703
45°	1037	295	14	31	38	792
55°	912	69	12	30	38	743
65°	155	4	8	26	36	210
75°	3	3	5	18	28	3
85°	1	1	2	6	10	1
90°	0	0	0	0	0	

TEST NUMBER: P1313302

CATALOG NUMBER: P3SQAS09R559730DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
2.5°	52.5	52.5	52.5	52.5	52.5	52.5	51.9	49.9	48.6	46.6	46.0
5°	61.1	61.1	61.1	60.4	60.4	59.1	55.8	51.2	47.9	45.3	44.6
7.5°	78.8	78.1	76.8	76.2	74.2	73.5	61.7	52.5	47.3	44.0	43.3
10°	122.8	121.4	119.5	112.3	105.7	101.1	70.2	53.2	46.0	42.7	42.0
12.5°	221.2	218.6	208.8	193.7	175.3	166.1	84.0	53.8	44.0	41.4	41.4
15°	369.6	366.3	347.9	326.9	293.4	275.1	105.7	53.2	42.0	39.4	40.0
17.5°	533.7	524.5	505.5	477.9	432.6	411.0	137.9	51.9	39.4	38.1	39.4
20°	695.2	692.6	661.1	623.7	567.9	539.0	179.9	49.9	36.8	36.1	38.1
22.5°	884.3	873.1	839.6	799.6	722.8	684.7	225.2	47.3	34.1	34.1	36.8
25°	1032.0	1018.9	992.6	946.0	873.1	832.4	269.8	44.0	30.9	32.2	35.5
27.5°	1114.7	1099.6	1079.9	1039.9	983.4	947.3	314.5	40.0	27.6	30.2	34.1
30°	1151.5	1147.5	1133.1	1103.6	1051.7	1019.5	360.4	35.5	24.3	28.2	33.5
32.5°	1155.4	1157.4	1151.5	1132.4	1093.0	1065.5	394.5	31.5	21.7	26.9	32.2
35°	1131.8	1139.0	1142.9	1135.1	1109.5	1087.1	409.6	26.9	19.0	25.6	31.5
37.5°	1095.0	1108.1	1121.3	1123.2	1107.5	1093.0	405.7	23.0	17.7	24.9	31.5
40°	1050.4	1062.2	1089.1	1106.2	1100.9	1090.4	386.7	19.0	16.4	23.6	30.9
42.5°	1030.0	1032.7	1061.5	1090.4	1089.1	1080.6	353.2	15.1	15.1	23.6	30.9
45°	1036.6	1024.8	1043.8	1077.3	1075.3	1064.2	295.4	11.8	14.4	23.0	30.9
47.5°	1009.0	992.6	1024.8	1064.2	1056.9	1040.5	244.2	8.5	13.8	22.3	30.2
50°	982.1	979.5	1004.4	1024.1	1014.3	1005.1	177.3	6.6	13.1	21.7	30.2
52.5°	984.1	979.5	982.1	981.4	961.8	951.9	121.4	5.3	12.5	21.0	30.2
55°	912.5	898.1	884.3	888.2	889.5	883.0	68.9	4.6	11.8	21.0	29.5
57.5°	663.0	659.1	674.2	716.9	750.4	754.3	33.5	4.6	11.2	20.4	28.9
60°	562.0	559.3	560.0	572.5	590.2	579.0	13.8	4.6	10.5	19.7	28.2
62.5°	387.3	412.9	423.4	452.3	440.5	424.7	5.3	5.3	9.8	18.4	27.6
65°	154.9	154.3	168.7	182.5	178.6	166.7	3.9	4.6	8.5	17.1	25.6
67.5°	36.1	32.8	28.2	24.3	20.4	16.4	3.9	4.6	7.9	15.8	24.3
70°	3.9	3.9	3.9	3.9	3.9	3.3	3.3	4.6	7.2	14.4	22.3
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.9	5.9	12.5	20.4
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.3	4.6	10.5	17.7
77.5°	2.0	2.0	2.0	2.6	2.0	2.6	2.6	3.3	3.9	8.5	15.1
80°	1.3	1.3	2.0	2.0	2.0	2.0	2.0	2.6	3.3	7.2	11.8
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0	2.6	5.3	8.5
85°	0.7	0.7	0.7	0.7	0.7	1.3	1.3	2.0	2.0	3.9	5.9
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	2.0	2.0	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

TEST NUMBER: P1313302

CATALOG NUMBER: P3SQAS09R559730DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	47.9	47.9
2.5°	45.3	45.3
5°	44.0	43.3
7.5°	42.7	42.7
10°	42.0	42.0
12.5°	41.4	42.0
15°	41.4	41.4
17.5°	40.0	40.7
20°	39.4	40.0
22.5°	38.7	39.4
25°	38.1	38.7
27.5°	37.4	38.1
30°	36.8	38.1
32.5°	36.1	37.4
35°	36.1	37.4
37.5°	36.1	38.1
40°	36.1	38.1
42.5°	36.1	38.1
45°	36.1	38.1
47.5°	36.1	38.1
50°	36.1	38.7
52.5°	36.1	38.7
55°	36.1	38.1
57.5°	35.5	38.1
60°	35.5	37.4
62.5°	34.8	36.8
65°	33.5	35.5
67.5°	32.2	34.8
70°	30.2	32.8
72.5°	28.2	30.2
75°	25.6	27.6
77.5°	22.3	23.6
80°	17.7	19.7
82.5°	13.8	15.1
85°	9.2	9.8
87.5°	3.9	4.6
90°	0.0	0.0

(END OF REPORT)