

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: P1306777

Luminaire Tested: P3SQAS09R559027DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-54)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R559027DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

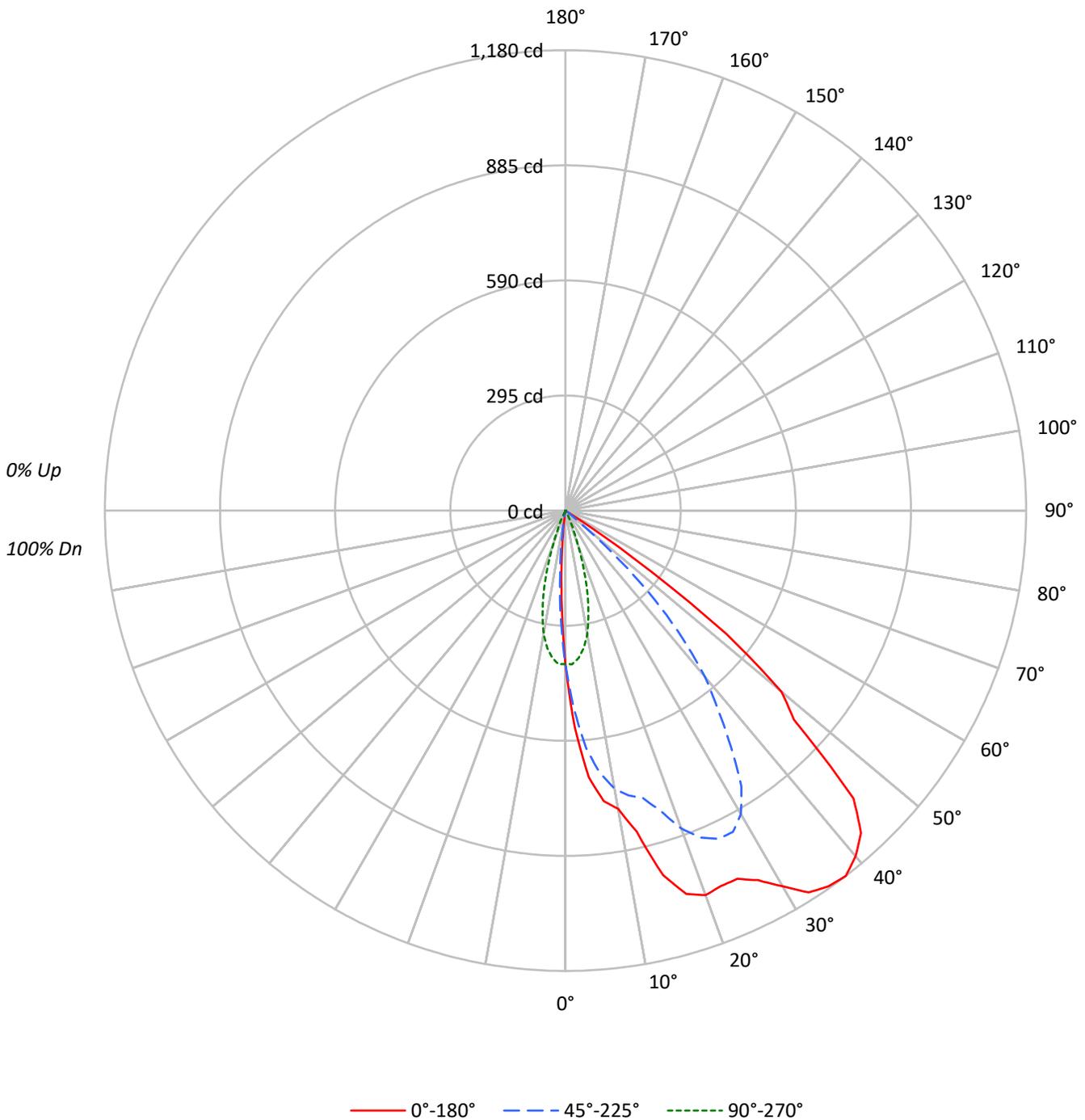
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 727.0 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27
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 (A_{in}): 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: P1306777
CATALOG NUMBER: P3SQAS09R559027DE010 E3SQCA301MB

Luminous Intensity Polar Plot





TEST NUMBER: P1306777

CATALOG NUMBER: P3SQAS09R559027DE010 E3SQCA301MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	88	86	84	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	81	78	75	73
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	75	71	68	66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	60	55	64	59	55	64	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	59	54	50	48
8	70	58	51	46	68	58	51	46	56	50	46	55	50	46	54	49	45	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	50	45	41	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	67649	67649	67649	67649	67649
5°	118579	105716	65677	27281	15715
10°	135724	126525	56154	2990	1067
15°	172485	135827	38495	606	357
20°	192201	158900	16898	0	0
25°	197856	176307	4808	0	0
30°	221059	178661	676	0	0
35°	247059	155140	0	0	0
40°	259893	124865	0	0	0
45°	254081	78865	0	0	0
50°	193473	16103	0	0	0
55°	63385	0	0	0	0
60°	0	0	0	0	0
65°	0	285	285	0	0
70°	0	352	352	0	0
75°	0	466	466	0	0
80°	0	694	1389	694	0
85°	0	1383	1383	1383	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 254081 cd/sqm



TEST NUMBER: P1306777

CATALOG NUMBER: P3SQAS09R559027DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.9	4.9
10°-20°	105.2	14.5
20°-30°	171.1	23.5
30°-40°	203.3	28.0
40°-50°	166.2	22.9
50°-60°	44.1	6.1
60°-70°	0.3	0.0
70°-80°	0.5	0.1
80°-90°	0.5	0.1
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°	312.1	42.9
0°-40°	515.4	70.9
0°-60°	725.8	99.8
0°-90°	727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	727.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	393	393	393	393	393	
5°	686	612	380	158	91	67
15°	967	762	216	3	2	270
25°	1041	928	25	0	0	490
35°	1175	738	0	0	0	731
45°	1043	324	0	0	0	749
55°	211	0	0	0	0	237
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1306777
 CATALOG NUMBER: P3SQAS09R559027DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	392.8	392.8	392.8	392.8	392.8	392.8	392.8	392.8	392.8	392.8	392.8
2.5°	557.5	553.4	554.1	552.0	554.1	545.2	535.6	526.7	519.9	510.3	452.3
5°	685.9	679.1	677.0	674.3	671.6	660.7	651.8	640.8	627.9	611.5	504.9
7.5°	750.8	745.4	742.6	744.0	737.9	733.8	722.1	709.8	696.2	678.4	544.5
10°	776.1	770.6	770.0	769.3	768.6	765.9	760.4	749.5	737.2	723.5	567.1
12.5°	842.4	830.1	821.9	812.3	800.7	785.7	773.4	763.8	759.0	748.1	577.3
15°	967.4	955.8	946.9	934.6	912.8	880.6	851.3	813.7	780.9	761.8	573.2
17.5°	1030.3	1024.8	1017.3	1009.1	994.1	970.8	940.8	901.1	859.5	805.5	553.4
20°	1048.7	1046.0	1040.5	1037.1	1026.8	1010.5	990.0	959.2	920.3	867.0	522.6
22.5°	1041.2	1043.2	1046.0	1054.9	1056.2	1044.6	1025.5	996.1	956.5	907.3	475.5
25°	1041.2	1039.8	1039.8	1058.3	1069.9	1064.4	1050.8	1024.1	983.8	927.8	417.4
27.5°	1067.8	1059.6	1042.6	1061.7	1080.8	1078.8	1066.5	1035.0	990.0	928.5	346.4
30°	1111.6	1093.8	1065.8	1083.6	1101.3	1093.8	1074.0	1033.7	976.3	898.4	259.6
32.5°	1160.1	1151.9	1137.5	1149.1	1146.4	1116.3	1080.8	1024.8	948.3	838.3	174.9
35°	1175.1	1176.5	1166.9	1164.9	1149.1	1118.4	1080.8	999.5	889.5	737.9	103.8
37.5°	1179.9	1180.6	1165.5	1146.4	1123.2	1087.0	1041.9	947.6	780.9	640.8	55.3
40°	1156.0	1155.3	1130.7	1107.5	1081.5	1046.0	980.4	838.3	677.7	555.4	19.8
42.5°	1120.4	1111.6	1088.3	1059.6	1028.2	983.8	881.3	707.8	588.9	444.8	1.4
45°	1043.2	1035.0	1016.6	985.9	951.0	888.2	726.2	608.0	478.9	323.8	0.0
47.5°	793.2	789.1	808.2	812.3	811.6	739.9	606.0	496.0	351.8	188.6	0.0
50°	722.1	716.7	697.5	673.0	629.2	569.1	485.8	367.6	206.3	60.1	0.0
52.5°	518.5	536.3	540.4	522.0	481.0	421.5	334.8	211.8	71.7	0.0	0.0
55°	211.1	200.2	208.4	218.6	226.8	208.4	154.4	75.2	0.7	0.0	0.0
57.5°	0.0	0.7	4.1	9.6	15.7	19.8	21.2	1.4	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7	0.7	0.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
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: P1306777

CATALOG NUMBER: P3SQAS09R559027DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	392.8	392.8	392.8	392.8	392.8
2.5°	394.2	333.4	274.6	242.5	226.8
5°	379.9	254.8	157.8	109.3	90.9
7.5°	355.9	174.9	62.9	26.0	18.4
10°	321.1	100.4	17.1	6.8	6.1
12.5°	271.2	45.8	6.1	4.8	4.8
15°	215.9	15.7	3.4	2.7	2.0
17.5°	151.7	4.1	1.4	0.0	0.0
20°	92.2	0.7	0.0	0.0	0.0
22.5°	51.2	0.0	0.0	0.0	0.0
25°	25.3	0.0	0.0	0.0	0.0
27.5°	10.9	0.0	0.0	0.0	0.0
30°	3.4	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.7	0.0	0.0	0.0	0.0
65°	0.7	0.7	0.0	0.0	0.0
67.5°	0.7	0.7	0.0	0.0	0.0
70°	0.7	0.7	0.0	0.0	0.0
72.5°	0.7	0.7	0.0	0.0	0.0
75°	0.7	0.7	0.0	0.0	0.0
77.5°	1.4	0.7	0.7	0.0	0.0
80°	1.4	0.7	0.7	0.0	0.0
82.5°	1.4	0.7	0.7	0.0	0.0
85°	0.7	0.7	0.7	0.0	0.0
87.5°	1.4	0.7	0.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)