

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: P1317886

Luminaire Tested: P3SQAS09R459835DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R459835DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

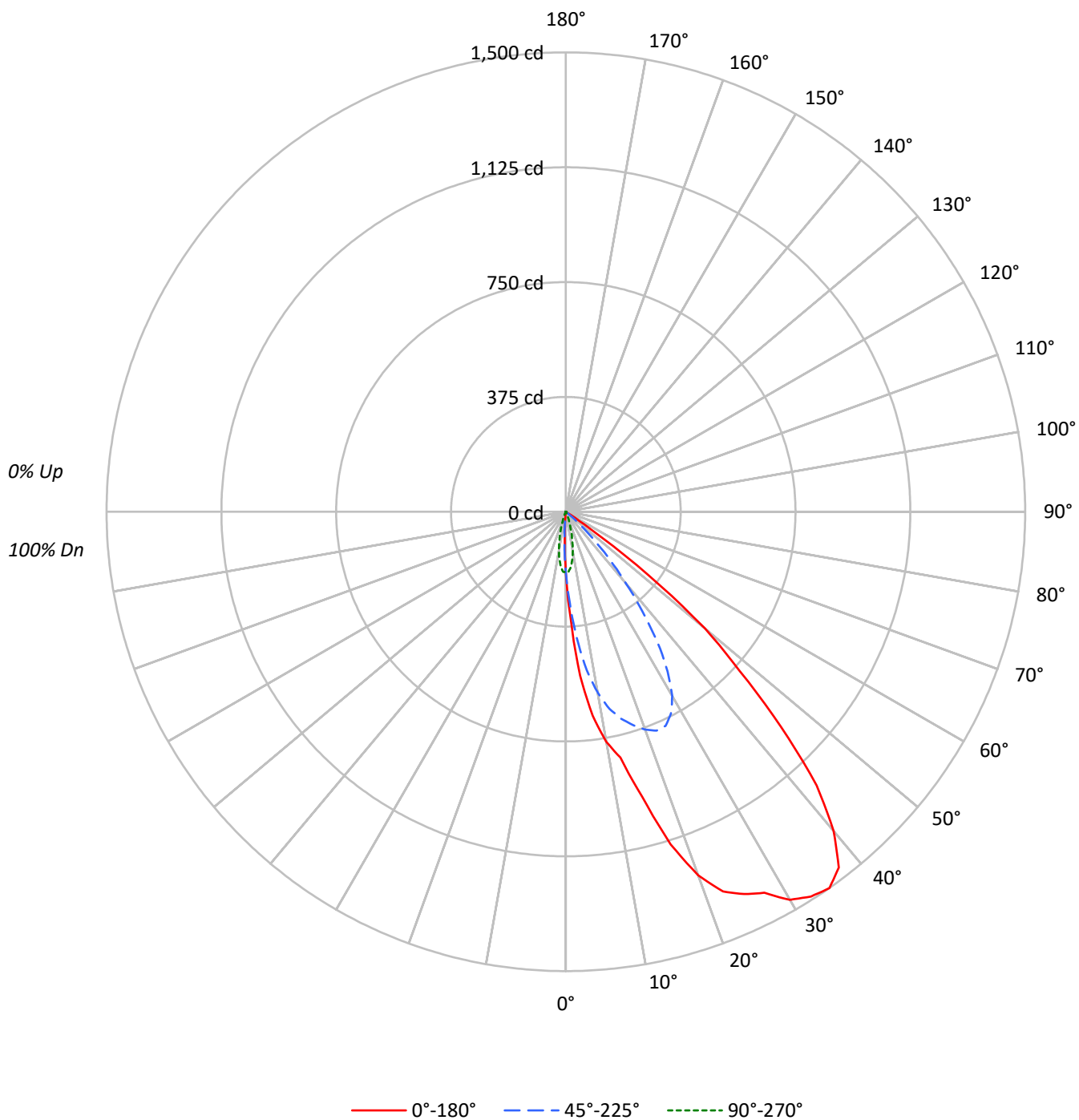
Lumens per Lamp: N/A
Luminaire Lumens: 636.0 lumens
Efficiency: N/A
Efficacy: 57.8 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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: P1317886

CATALOG NUMBER: P3SQAS09R459835DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1317886

CATALOG NUMBER: P3SQAS09R459835DE010 E3SQCA301MMS

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	34014	34014	34014	34014	34014
5°	92871	71452	31482	6310	2368
10°	133381	104823	22769	595	507
15°	171719	124684	12106	196	0
20°	231440	138740	4600	0	0
25°	261762	146568	1197	0	0
30°	290980	138172	119	0	0
35°	315431	110189	0	0	0
40°	305711	69177	0	0	0
45°	242342	32954	0	0	0
50°	158615	4126	0	0	0
55°	27264	0	0	0	0
60°	0	0	207	0	0
65°	0	245	245	0	0
70°	0	302	554	0	0
75°	0	399	732	0	0
80°	0	595	1091	595	0
85°	0	1186	2174	1186	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 242342 cd/sqm

TEST NUMBER: P1317886

CATALOG NUMBER: P3SQAS09R459835DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.5	3.7
10°-20°	90.6	14.2
20°-30°	169.6	26.7
30°-40°	198.0	31.1
40°-50°	129.1	20.3
50°-60°	24.0	3.8
60°-70°	0.2	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°	283.7	44.6
0°-40°	481.7	75.7
0°-60°	634.8	99.8
0°-90°	636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	636.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	198	198	198	198	198	
5°	537	413	182	36	14	58
15°	963	699	68	1	0	287
25°	1378	771	6	0	0	637
35°	1500	524	0	0	0	920
45°	995	135	0	0	0	757
55°	91	0	0	0	0	158
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: P1317886

CATALOG NUMBER: P3SQAS09R459835DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	197.5	197.5	197.5	197.5	197.5	197.5	197.5	197.5	197.5	197.5	197.5
2.5°	348.2	351.1	345.4	343.1	335.7	337.4	324.8	319.7	311.7	298.6	292.3
5°	537.2	532.1	527.5	517.8	512.1	496.7	479.5	460.1	436.7	413.3	386.5
7.5°	671.9	667.9	666.2	658.2	646.8	630.8	608.6	584.0	553.8	522.4	481.8
10°	762.7	758.7	751.8	743.9	734.7	721.6	699.9	673.1	640.0	599.4	552.0
12.5°	822.1	821.5	810.1	800.9	789.5	778.1	755.8	734.2	701.6	659.9	606.3
15°	963.1	953.9	939.1	913.4	881.4	851.8	815.8	781.5	746.1	699.3	639.4
17.5°	1138.9	1128.6	1103.5	1071.0	1019.6	963.1	901.4	847.2	794.1	730.7	659.9
20°	1262.8	1258.8	1237.7	1200.0	1145.2	1070.4	989.3	912.8	838.1	757.0	669.6
22.5°	1342.1	1339.9	1331.3	1305.6	1249.7	1165.7	1061.3	958.5	868.3	773.5	666.8
25°	1377.5	1380.4	1381.5	1369.0	1323.9	1238.2	1114.4	993.3	885.4	771.3	645.1
27.5°	1402.7	1402.7	1407.2	1401.5	1355.8	1265.6	1134.9	1005.3	879.7	743.3	599.4
30°	1463.2	1462.0	1464.9	1449.5	1386.1	1274.2	1125.8	985.9	847.2	694.8	533.8
32.5°	1489.4	1490.6	1490.0	1465.5	1391.8	1268.5	1103.5	948.8	787.2	618.8	447.0
35°	1500.3	1495.1	1474.0	1418.1	1325.0	1192.6	1040.7	886.0	703.3	524.1	352.8
37.5°	1464.3	1449.5	1402.7	1326.2	1212.6	1085.2	936.8	773.5	592.0	411.0	265.5
40°	1359.8	1340.4	1281.6	1189.1	1085.2	970.5	814.1	641.7	463.0	307.7	186.1
42.5°	1212.0	1189.7	1126.3	1045.9	951.1	830.6	674.8	502.4	339.1	212.4	118.2
45°	995.0	982.5	945.9	878.0	785.0	659.9	517.2	366.5	234.6	135.3	60.5
47.5°	769.5	753.6	727.3	680.5	602.8	484.1	361.9	248.9	150.7	66.8	12.6
50°	592.0	573.2	541.2	489.2	408.2	323.1	234.6	155.3	76.5	15.4	0.6
52.5°	340.8	344.8	329.4	296.3	251.2	193.5	135.9	78.2	17.1	0.6	0.0
55°	90.8	98.2	95.9	103.3	90.8	76.5	56.5	14.8	1.1	0.0	0.0
57.5°	0.0	0.0	0.6	1.1	3.4	5.1	1.7	0.6	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	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
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: P1317886

CATALOG NUMBER: P3SQAS09R459835DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	197.5	197.5	197.5	197.5	197.5	197.5	197.5	197.5
2.5°	278.0	266.0	251.2	196.4	147.9	106.2	82.8	76.5
5°	360.8	331.7	294.0	182.1	91.3	36.5	16.6	13.7
7.5°	439.0	396.2	328.3	159.3	46.2	9.1	4.6	4.0
10°	499.5	441.9	353.4	130.2	17.1	3.4	2.9	2.9
12.5°	541.2	471.0	362.5	98.8	6.3	1.7	1.7	1.1
15°	565.2	482.4	353.9	67.9	2.3	1.1	0.0	0.0
17.5°	572.6	477.8	331.1	42.8	0.6	0.0	0.0	0.0
20°	566.3	455.6	295.1	25.1	0.0	0.0	0.0	0.0
22.5°	545.8	420.7	251.8	13.7	0.0	0.0	0.0	0.0
25°	507.5	371.6	200.9	6.3	0.0	0.0	0.0	0.0
27.5°	445.3	308.3	151.3	2.3	0.0	0.0	0.0	0.0
30°	374.5	240.3	107.3	0.6	0.0	0.0	0.0	0.0
32.5°	292.3	177.0	69.1	0.0	0.0	0.0	0.0	0.0
35°	219.8	123.9	41.1	0.0	0.0	0.0	0.0	0.0
37.5°	153.0	78.2	21.7	0.0	0.0	0.0	0.0	0.0
40°	95.3	42.2	7.4	0.0	0.0	0.0	0.0	0.0
42.5°	53.1	14.8	0.6	0.0	0.0	0.0	0.0	0.0
45°	12.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
60°	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0
62.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
65°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
67.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
70°	0.6	0.6	0.6	1.1	0.6	0.0	0.0	0.0
72.5°	0.6	0.6	1.1	1.1	0.6	0.0	0.0	0.0
75°	0.6	0.6	1.1	1.1	0.6	0.0	0.0	0.0
77.5°	0.6	1.1	1.1	1.1	0.6	0.6	0.0	0.0
80°	0.6	1.1	1.1	1.1	1.1	0.6	0.0	0.0
82.5°	0.6	1.1	1.1	1.1	1.1	0.6	0.0	0.0
85°	0.6	1.1	1.1	1.1	0.6	0.6	0.0	0.0
87.5°	0.6	1.1	1.1	1.1	1.1	0.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)