

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: P1316279

Luminaire Tested: P3SQAS13R459827DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316279
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: P3SQAS13R459827DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

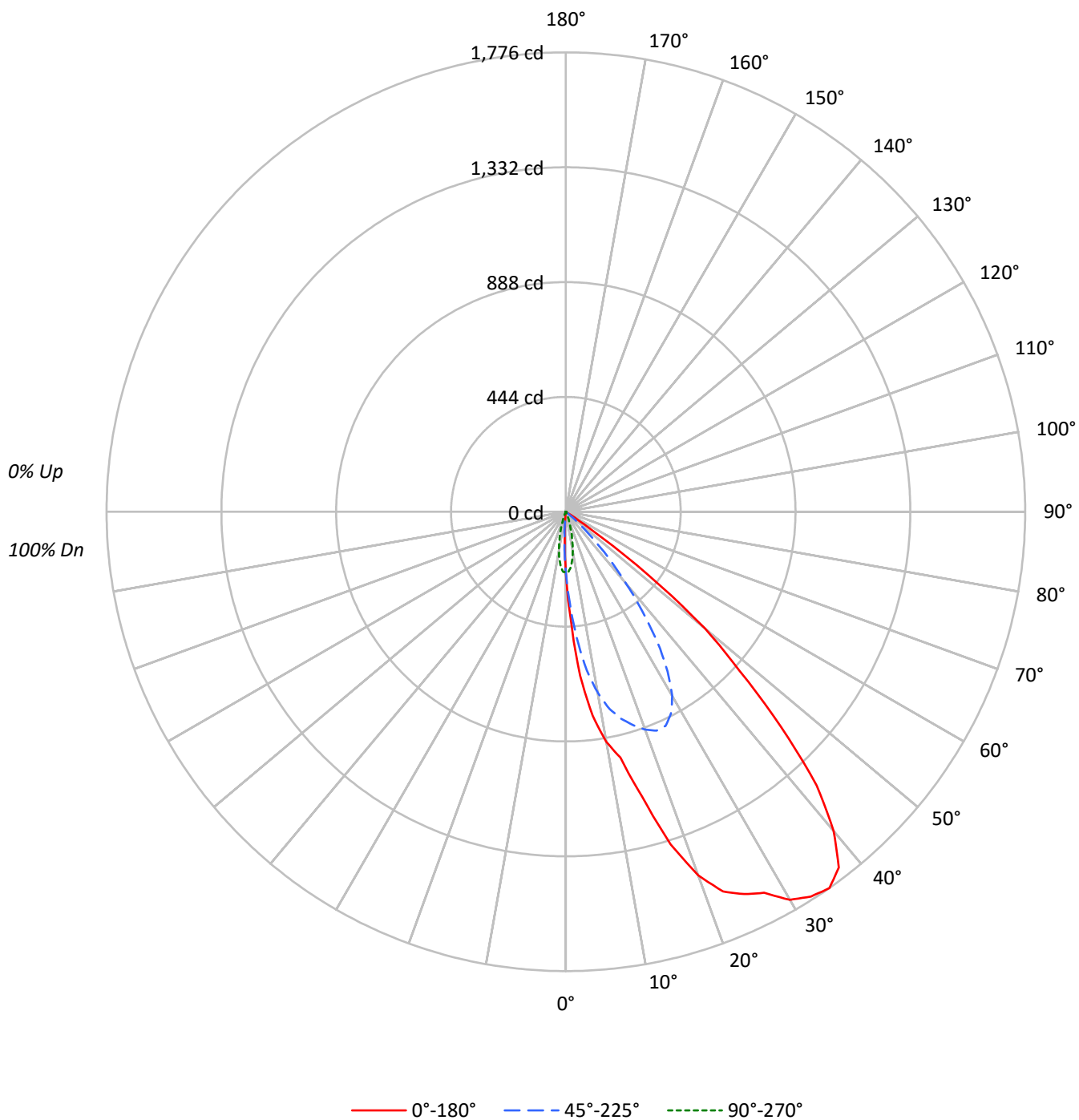
Lumens per Lamp: N/A
Luminaire Lumens: 753.1 lumens
Efficiency: N/A
Efficacy: 51.9 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.26
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1316279

CATALOG NUMBER: P3SQAS13R459827DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1316279

CATALOG NUMBER: P3SQAS13R459827DE010 E3SQCA301MB

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	0
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°	40283	40283	40283	40283	40283
5°	109952	84608	37273	7486	2801
10°	157916	124112	26949	717	595
15°	203295	147631	14335	250	0
20°	274015	164252	5443	0	0
25°	309914	173513	1406	0	0
30°	344495	163587	139	0	0
35°	373458	130457	0	0	0
40°	361961	81902	0	0	0
45°	286938	39018	0	0	0
50°	187793	4876	0	0	0
55°	32278	0	0	0	0
60°	0	0	241	0	0
65°	0	285	285	0	0
70°	0	352	705	0	0
75°	0	466	932	0	0
80°	0	694	1389	694	0
85°	0	1383	2766	1383	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 286938 cd/sqm

TEST NUMBER: P1316279

CATALOG NUMBER: P3SQAS13R459827DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	3.7
10°-20°	107.3	14.2
20°-30°	200.8	26.7
30°-40°	234.4	31.1
40°-50°	152.9	20.3
50°-60°	28.4	3.8
60°-70°	0.3	0.0
70°-80°	0.6	0.1
80°-90°	0.6	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°	335.9	44.6
0°-40°	570.3	75.7
0°-60°	751.6	99.8
0°-90°	753.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	753.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	234	234	234	234	234	
5°	636	489	216	43	16	68
15°	1140	828	80	1	0	340
25°	1631	913	7	0	0	754
35°	1776	620	0	0	0	1089
45°	1178	160	0	0	0	896
55°	108	0	0	0	0	187
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: P1316279

CATALOG NUMBER: P3SQAS13R459827DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	233.9	233.9	233.9	233.9	233.9	233.9	233.9	233.9	233.9	233.9	233.9
2.5°	412.3	415.7	408.9	406.2	397.4	399.5	384.6	378.5	369.0	353.5	346.1
5°	636.0	629.9	624.5	613.0	606.3	588.0	567.8	544.8	517.1	489.4	457.6
7.5°	795.5	790.8	788.8	779.3	765.8	746.9	720.5	691.4	655.6	618.4	570.5
10°	903.0	898.3	890.2	880.7	869.9	854.3	828.7	796.9	757.7	709.7	653.6
12.5°	973.3	972.6	959.1	948.3	934.8	921.3	894.9	869.2	830.7	781.3	717.8
15°	1140.2	1129.4	1111.9	1081.4	1043.6	1008.4	965.9	925.3	883.4	828.0	757.0
17.5°	1348.4	1336.3	1306.5	1268.0	1207.2	1140.2	1067.2	1003.0	940.2	865.2	781.3
20°	1495.1	1490.4	1465.4	1420.7	1355.9	1267.3	1171.3	1080.8	992.2	896.2	792.8
22.5°	1589.0	1586.3	1576.2	1545.8	1479.5	1380.2	1256.5	1134.8	1028.0	915.8	789.5
25°	1630.9	1634.3	1635.7	1620.8	1567.4	1466.0	1319.4	1176.1	1048.3	913.1	763.8
27.5°	1660.7	1660.7	1666.1	1659.3	1605.3	1498.5	1343.7	1190.3	1041.6	880.0	709.7
30°	1732.3	1731.0	1734.4	1716.1	1641.1	1508.6	1332.9	1167.3	1003.0	822.6	632.0
32.5°	1763.4	1764.8	1764.1	1735.0	1647.8	1501.9	1306.5	1123.3	932.1	732.7	529.2
35°	1776.3	1770.2	1745.2	1678.9	1568.8	1412.0	1232.2	1049.0	832.7	620.5	417.7
37.5°	1733.7	1716.1	1660.7	1570.1	1435.6	1284.9	1109.2	915.8	700.9	486.6	314.3
40°	1610.0	1587.0	1517.4	1407.9	1284.9	1149.0	963.8	759.7	548.2	364.3	220.3
42.5°	1434.9	1408.6	1333.6	1238.3	1126.1	983.4	798.9	594.8	401.5	251.4	139.9
45°	1178.1	1163.2	1120.0	1039.5	929.4	781.3	612.4	433.9	277.8	160.2	71.6
47.5°	911.1	892.2	861.1	805.7	713.8	573.2	428.5	294.7	178.4	79.1	14.9
50°	700.9	678.6	640.8	579.2	483.3	382.6	277.8	183.8	90.6	18.2	0.7
52.5°	403.5	408.2	390.0	350.8	297.4	229.1	160.9	92.6	20.3	0.7	0.0
55°	107.5	116.3	113.6	122.3	107.5	90.6	66.9	17.6	1.4	0.0	0.0
57.5°	0.0	0.0	0.7	1.4	4.1	6.1	2.0	0.7	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	0.7	0.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.7	0.7	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
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: P1316279

CATALOG NUMBER: P3SQAS13R459827DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	233.9	233.9	233.9	233.9	233.9	233.9	233.9	233.9
2.5°	329.2	315.0	297.4	232.5	175.1	125.7	98.0	90.6
5°	427.2	392.7	348.1	215.6	108.1	43.3	19.6	16.2
7.5°	519.8	469.1	388.6	188.6	54.7	10.8	5.4	4.7
10°	591.4	523.1	418.4	154.1	20.3	4.1	3.4	3.4
12.5°	640.8	557.6	429.2	116.9	7.4	2.0	2.0	1.4
15°	669.1	571.1	419.1	80.4	2.7	1.4	0.0	0.0
17.5°	677.9	565.7	392.0	50.7	0.7	0.0	0.0	0.0
20°	670.5	539.4	349.4	29.7	0.0	0.0	0.0	0.0
22.5°	646.2	498.1	298.1	16.2	0.0	0.0	0.0	0.0
25°	600.9	440.0	237.9	7.4	0.0	0.0	0.0	0.0
27.5°	527.2	365.0	179.1	2.7	0.0	0.0	0.0	0.0
30°	443.4	284.6	127.1	0.7	0.0	0.0	0.0	0.0
32.5°	346.1	209.5	81.8	0.0	0.0	0.0	0.0	0.0
35°	260.2	146.7	48.7	0.0	0.0	0.0	0.0	0.0
37.5°	181.1	92.6	25.7	0.0	0.0	0.0	0.0	0.0
40°	112.9	50.0	8.8	0.0	0.0	0.0	0.0	0.0
42.5°	62.9	17.6	0.7	0.0	0.0	0.0	0.0	0.0
45°	14.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.7	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	0.7	0.0	0.0	0.0	0.0
60°	0.0	0.7	0.7	0.7	0.0	0.0	0.0	0.0
62.5°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
65°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
67.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
70°	0.7	0.7	0.7	1.4	0.7	0.0	0.0	0.0
72.5°	0.7	0.7	1.4	1.4	0.7	0.0	0.0	0.0
75°	0.7	0.7	1.4	1.4	0.7	0.0	0.0	0.0
77.5°	0.7	1.4	1.4	1.4	0.7	0.7	0.0	0.0
80°	0.7	1.4	1.4	1.4	1.4	0.7	0.0	0.0
82.5°	0.7	1.4	1.4	1.4	1.4	0.7	0.0	0.0
85°	0.7	1.4	1.4	1.4	0.7	0.7	0.0	0.0
87.5°	0.7	1.4	1.4	1.4	1.4	0.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)