

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: P1312001

Luminaire Tested: P3SQAS02R559727DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312001
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: P3SQAS02R559727DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

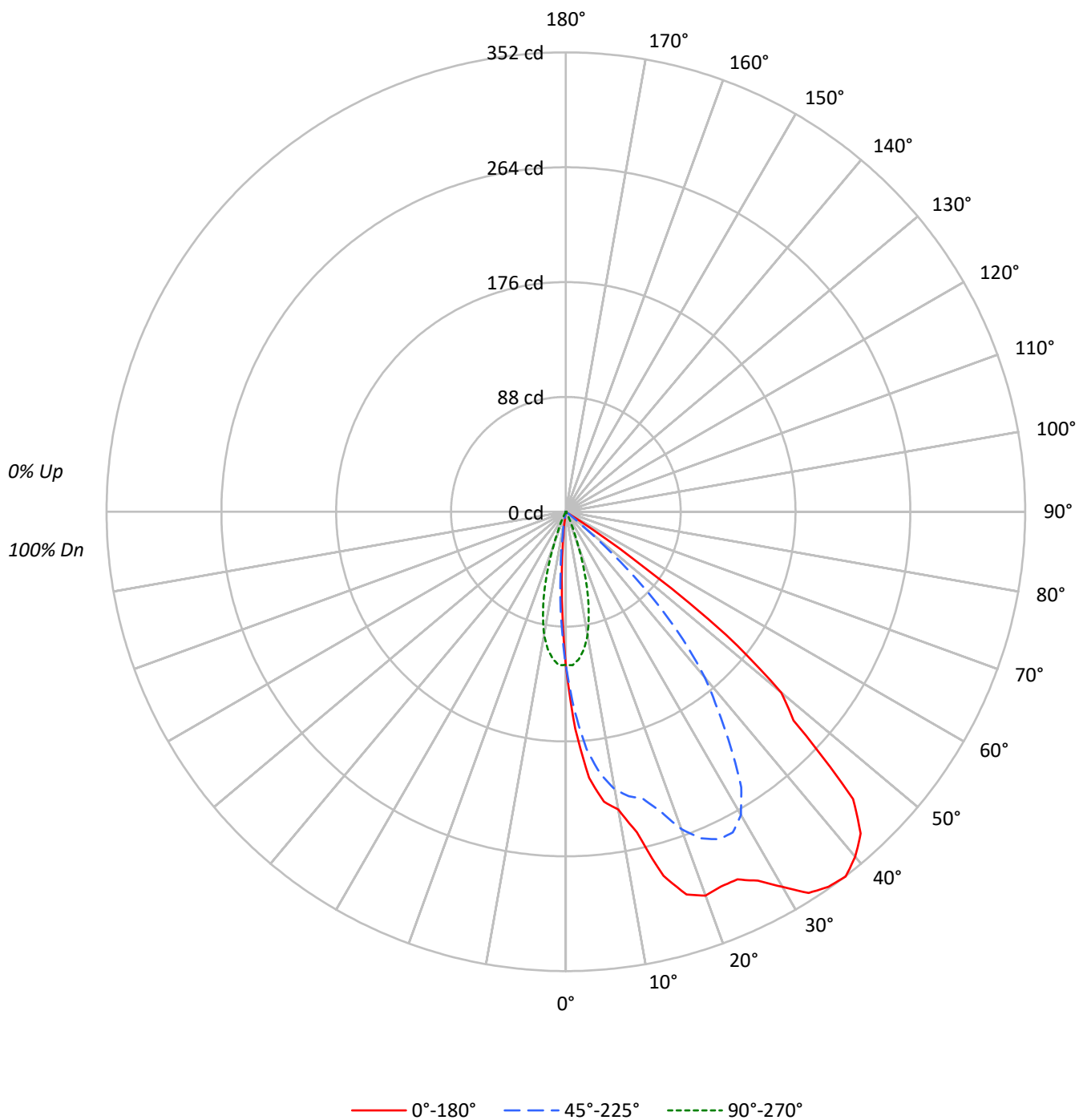
Lumens per Lamp: N/A
Luminaire Lumens: 217.0 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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

TEST NUMBER: P1312001

CATALOG NUMBER: P3SQAS02R559727DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1312001

CATALOG NUMBER: P3SQAS02R559727DE010 E3SQCA301MB

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	20202	20202	20202	20202	20202
5°	35389	31551	19605	8143	4685
10°	40520	37774	16753	892	315
15°	51492	40545	11482	178	107
20°	57365	47432	5040	0	0
25°	59060	52618	1425	0	0
30°	65984	53336	199	0	0
35°	73754	46296	0	0	0
40°	77563	37275	0	0	0
45°	75844	23552	0	0	0
50°	57739	4796	0	0	0
55°	18916	0	0	0	0
60°	0	0	0	0	0
65°	0	82	82	0	0
70°	0	101	101	0	0
75°	0	133	133	0	0
80°	0	198	397	198	0
85°	0	395	395	395	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 75844 cd/sqm

TEST NUMBER: P1312001

CATALOG NUMBER: P3SQAS02R559727DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.7	4.9
10°-20°	31.4	14.5
20°-30°	51.1	23.5
30°-40°	60.7	28.0
40°-50°	49.6	22.9
50°-60°	13.2	6.1
60°-70°	0.1	0.0
70°-80°	0.1	0.1
80°-90°	0.2	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°	93.2	42.9
0°-40°	153.9	70.9
0°-60°	216.6	99.8
0°-90°	217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	217.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	117	117	117	117	117	
5°	205	182	113	47	27	20
15°	289	227	64	1	1	81
25°	311	277	8	0	0	146
35°	351	220	0	0	0	218
45°	311	97	0	0	0	224
55°	63	0	0	0	0	71
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1312001

CATALOG NUMBER: P3SQAS02R559727DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3
2.5°	166.4	165.2	165.4	164.8	165.4	162.7	159.9	157.2	155.2	152.3	135.0
5°	204.7	202.7	202.1	201.3	200.5	197.2	194.5	191.3	187.4	182.5	150.7
7.5°	224.1	222.5	221.7	222.1	220.2	219.0	215.5	211.9	207.8	202.5	162.5
10°	231.7	230.0	229.8	229.6	229.4	228.6	227.0	223.7	220.0	216.0	169.3
12.5°	251.4	247.8	245.3	242.5	239.0	234.5	230.8	228.0	226.6	223.3	172.3
15°	288.8	285.3	282.6	279.0	272.4	262.9	254.1	242.9	233.1	227.4	171.1
17.5°	307.5	305.9	303.6	301.2	296.7	289.8	280.8	269.0	256.5	240.4	165.2
20°	313.0	312.2	310.6	309.6	306.5	301.6	295.5	286.3	274.7	258.8	156.0
22.5°	310.8	311.4	312.2	314.9	315.3	311.8	306.1	297.3	285.5	270.8	141.9
25°	310.8	310.4	310.4	315.9	319.3	317.7	313.6	305.7	293.7	276.9	124.6
27.5°	318.7	316.3	311.2	316.9	322.6	322.0	318.3	308.9	295.5	277.1	103.4
30°	331.8	326.5	318.1	323.4	328.7	326.5	320.6	308.5	291.4	268.2	77.5
32.5°	346.3	343.8	339.5	343.0	342.2	333.2	322.6	305.9	283.0	250.2	52.2
35°	350.8	351.2	348.3	347.7	343.0	333.8	322.6	298.3	265.5	220.2	31.0
37.5°	352.2	352.4	347.9	342.2	335.3	324.4	311.0	282.8	233.1	191.3	16.5
40°	345.0	344.8	337.5	330.6	322.8	312.2	292.6	250.2	202.3	165.8	5.9
42.5°	334.4	331.8	324.9	316.3	306.9	293.7	263.1	211.3	175.8	132.8	0.4
45°	311.4	308.9	303.4	294.3	283.9	265.1	216.8	181.5	143.0	96.7	0.0
47.5°	236.8	235.5	241.2	242.5	242.3	220.9	180.9	148.1	105.0	56.3	0.0
50°	215.5	213.9	208.2	200.9	187.8	169.9	145.0	109.7	61.6	17.9	0.0
52.5°	154.8	160.1	161.3	155.8	143.6	125.8	99.9	63.2	21.4	0.0	0.0
55°	63.0	59.8	62.2	65.3	67.7	62.2	46.1	22.4	0.2	0.0	0.0
57.5°	0.0	0.2	1.2	2.9	4.7	5.9	6.3	0.4	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	0.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
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: P1312001

CATALOG NUMBER: P3SQAS02R559727DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	117.3	117.3	117.3	117.3	117.3
2.5°	117.7	99.5	82.0	72.4	67.7
5°	113.4	76.1	47.1	32.6	27.1
7.5°	106.2	52.2	18.8	7.7	5.5
10°	95.8	30.0	5.1	2.0	1.8
12.5°	81.0	13.7	1.8	1.4	1.4
15°	64.4	4.7	1.0	0.8	0.6
17.5°	45.3	1.2	0.4	0.0	0.0
20°	27.5	0.2	0.0	0.0	0.0
22.5°	15.3	0.0	0.0	0.0	0.0
25°	7.5	0.0	0.0	0.0	0.0
27.5°	3.3	0.0	0.0	0.0	0.0
30°	1.0	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°	0.2	0.0	0.0	0.0	0.0
65°	0.2	0.2	0.0	0.0	0.0
67.5°	0.2	0.2	0.0	0.0	0.0
70°	0.2	0.2	0.0	0.0	0.0
72.5°	0.2	0.2	0.0	0.0	0.0
75°	0.2	0.2	0.0	0.0	0.0
77.5°	0.4	0.2	0.2	0.0	0.0
80°	0.4	0.2	0.2	0.0	0.0
82.5°	0.4	0.2	0.2	0.0	0.0
85°	0.2	0.2	0.2	0.0	0.0
87.5°	0.4	0.2	0.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)