

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: P1306642

Luminaire Tested: P3SQAS05R709027DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R709027DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

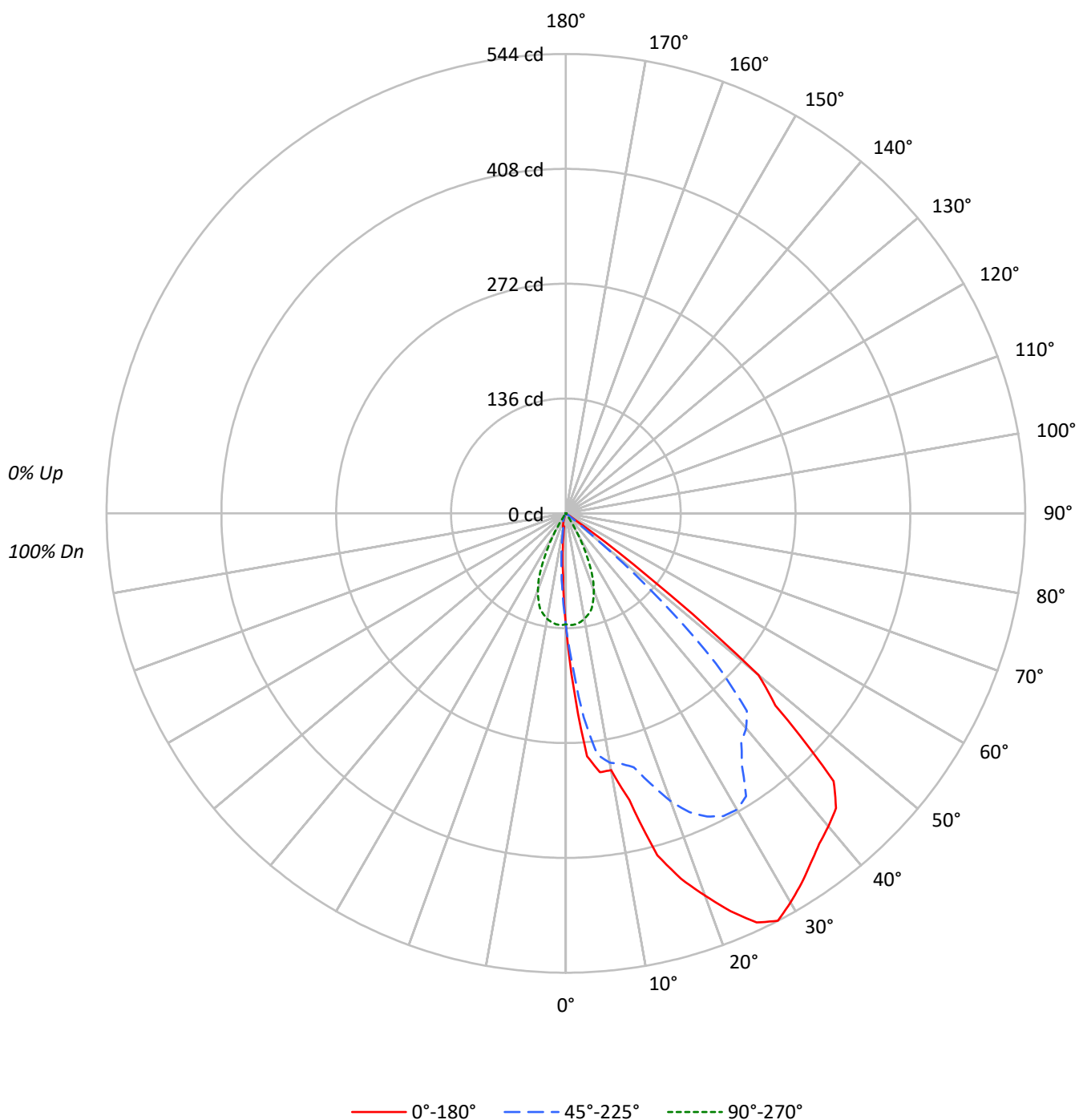
Lumens per Lamp: N/A
Luminaire Lumens: 354.0 lumens
Efficiency: N/A
Efficacy: 49.2 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P1306642

CATALOG NUMBER: P3SQAS05R709027DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1306642

CATALOG NUMBER: P3SQAS05R709027DE010 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	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82		
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53		
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48		
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39		
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	22630	22630	22630	22630	22630
5°	49911	41889	22803	10356	6829
10°	53985	52411	22192	2886	2973
15°	74725	55486	20932	2942	2140
20°	88265	66474	17759	1741	641
25°	101569	75270	12523	285	0
30°	105796	80560	5767	0	0
35°	106279	76361	315	0	0
40°	108723	74685	0	0	0
45°	109261	61207	0	0	0
50°	79763	12727	0	0	0
55°	4504	0	0	0	0
60°	0	172	172	0	0
65°	0	0	204	0	0
70°	0	252	252	0	0
75°	0	333	333	0	0
80°	0	496	496	496	0
85°	0	988	988	988	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 111331 cd/sqm

TEST NUMBER: P1306642

CATALOG NUMBER: P3SQAS05R709027DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.4	4.1
10°-20°	48.0	13.6
20°-30°	86.3	24.4
30°-40°	104.9	29.6
40°-50°	81.0	22.9
50°-60°	18.8	5.3
60°-70°	0.1	0.0
70°-80°	0.3	0.1
80°-90°	0.3	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°	148.6	42.0
0°-40°	253.5	71.6
0°-60°	353.3	99.8
0°-90°	354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	354.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	131	131	131	131	131	
5°	289	242	132	60	40	27
15°	419	311	117	16	12	117
25°	534	396	66	2	0	243
35°	506	363	2	0	0	318
45°	449	251	0	0	0	317
55°	15	0	0	0	0	62
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: P1306642

CATALOG NUMBER: P3SQAS05R709027DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	131.4	131.4	131.4	131.4	131.4	131.4	131.4	131.4	131.4	131.4	131.4
2.5°	204.8	204.8	205.8	205.3	200.8	198.8	192.3	188.8	187.8	179.8	176.8
5°	288.7	289.2	286.7	286.2	281.2	277.8	272.3	263.8	255.3	242.3	230.8
7.5°	309.2	308.7	308.2	308.2	307.2	305.2	302.7	300.2	296.7	288.7	279.7
10°	308.7	308.7	308.2	308.2	307.7	308.2	307.7	306.2	304.7	299.7	294.7
12.5°	347.7	344.7	340.7	334.7	324.7	317.2	308.7	306.2	305.2	303.7	300.7
15°	419.1	416.6	408.1	397.6	387.7	370.7	357.2	338.7	324.2	311.2	304.7
17.5°	453.6	455.1	445.6	439.1	429.6	416.1	400.1	381.2	360.7	336.2	316.7
20°	481.6	483.1	475.1	468.6	457.6	443.6	429.6	409.1	389.6	362.7	337.2
22.5°	510.0	511.0	503.5	494.1	481.6	467.1	449.1	428.1	407.1	383.2	356.2
25°	534.5	533.5	521.0	507.5	495.6	480.1	462.6	442.1	422.1	396.1	370.7
27.5°	544.0	543.5	529.5	516.5	502.5	481.6	466.1	448.1	427.1	404.1	378.2
30°	532.0	540.0	531.0	521.5	504.5	483.6	468.6	447.1	427.6	405.1	375.7
32.5°	519.5	529.5	526.5	522.0	502.0	485.6	466.1	446.1	423.1	397.1	352.2
35°	505.5	516.0	516.5	511.5	493.6	477.1	459.1	438.1	412.1	363.2	330.2
37.5°	493.1	503.0	506.0	495.6	481.6	459.6	443.1	421.1	374.2	341.2	324.2
40°	483.6	491.1	495.6	479.1	465.1	443.6	424.6	386.2	343.7	332.2	308.2
42.5°	473.6	480.6	482.6	464.6	443.1	422.6	395.1	346.7	334.2	317.2	252.8
45°	448.6	457.1	452.1	434.6	418.6	397.1	356.2	335.2	321.7	251.3	155.4
47.5°	336.7	346.2	359.7	364.7	370.2	354.7	332.2	324.7	264.3	152.4	48.5
50°	297.7	296.2	296.2	298.7	303.2	308.2	314.7	273.8	158.9	47.5	0.0
52.5°	121.4	127.4	156.9	183.3	213.8	244.3	253.8	167.8	61.9	1.0	0.0
55°	15.0	15.0	21.0	36.0	59.4	95.9	107.9	54.0	4.5	0.0	0.0
57.5°	0.0	0.0	0.0	0.5	4.0	11.0	7.5	2.0	0.5	0.5	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
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	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
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: P1306642

CATALOG NUMBER: P3SQAS05R709027DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	131.4	131.4	131.4	131.4	131.4	131.4	131.4	131.4
2.5°	171.8	165.9	157.4	132.4	110.9	91.9	80.9	75.4
5°	219.8	205.3	185.8	131.9	89.9	59.9	45.0	39.5
7.5°	265.8	249.3	216.3	129.9	68.9	35.0	19.5	15.5
10°	285.7	273.8	244.3	126.9	50.0	16.5	16.5	17.0
12.5°	293.7	284.7	260.8	122.4	33.0	16.0	17.0	16.0
15°	299.2	290.7	268.8	117.4	19.0	16.5	13.5	12.0
17.5°	302.2	292.2	271.3	107.9	12.5	14.0	8.5	7.0
20°	311.7	295.7	273.3	96.9	12.0	9.5	4.5	3.5
22.5°	327.7	302.7	273.8	83.4	9.5	5.5	1.5	0.0
25°	342.2	312.2	275.3	65.9	3.0	1.5	0.0	0.0
27.5°	349.2	315.2	274.8	46.5	0.0	0.0	0.0	0.0
30°	340.7	307.7	270.3	29.0	0.0	0.0	0.0	0.0
32.5°	320.7	302.2	256.3	12.5	0.0	0.0	0.0	0.0
35°	314.2	290.2	224.3	1.5	0.0	0.0	0.0	0.0
37.5°	299.7	255.8	164.9	0.0	0.0	0.0	0.0	0.0
40°	257.8	184.8	78.4	0.0	0.0	0.0	0.0	0.0
42.5°	170.3	78.9	4.5	0.0	0.0	0.0	0.0	0.0
45°	59.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.0	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	0.0	0.0	0.0	0.0	0.0
60°	0.5	0.5	0.5	0.5	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
65°	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0
67.5°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
70°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
72.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
75°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
77.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0
87.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)