

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: P1309788

Luminaire Tested: P3SQAS02R459040DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309788
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: P3SQAS02R459040DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

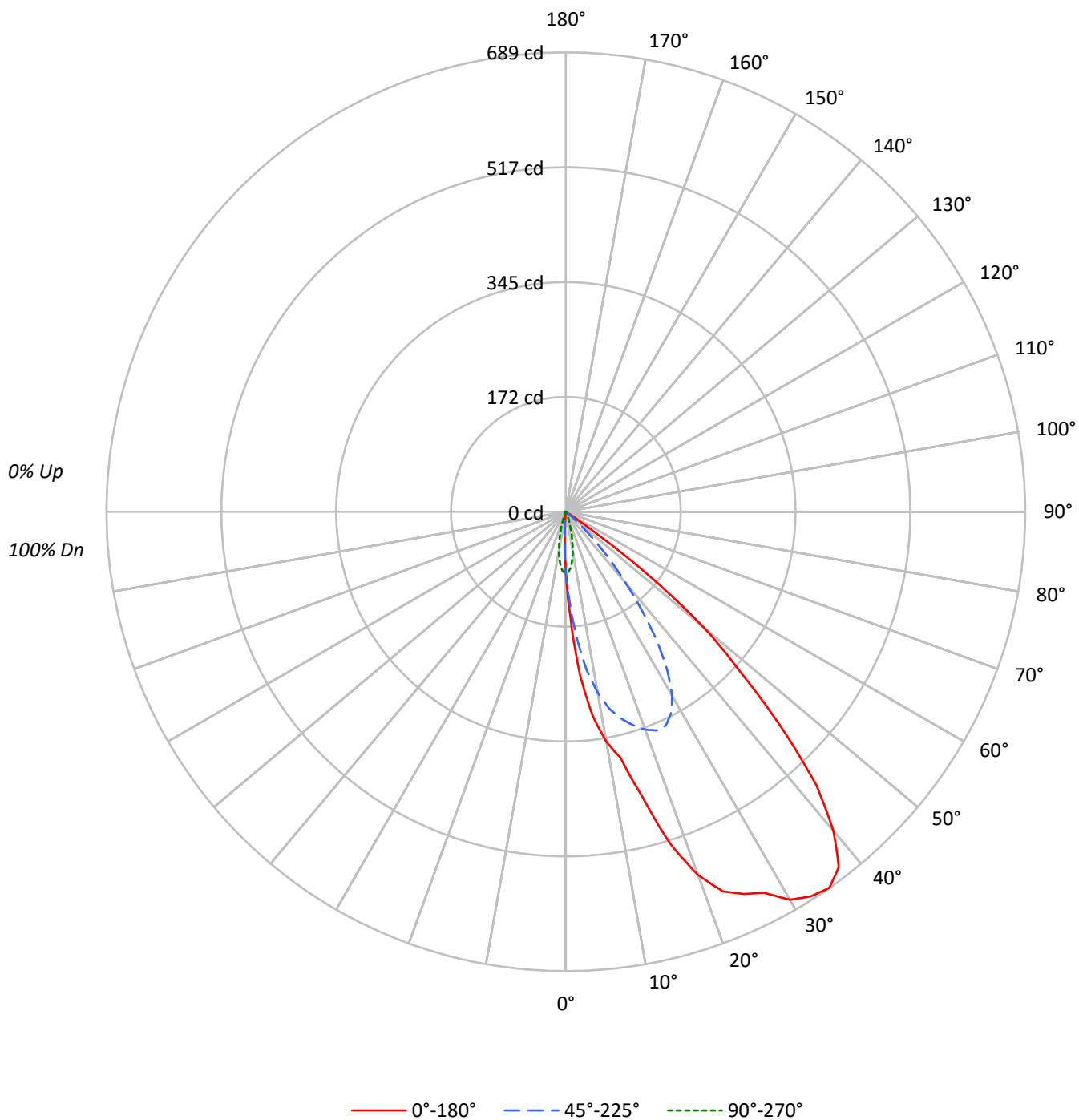
Lumens per Lamp: N/A
Luminaire Lumens: 292.0 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1309788

CATALOG NUMBER: P3SQAS02R459040DE010 E3SQCA301MB

Luminous Intensity Polar Plot





TEST NUMBER: P1309788

CATALOG NUMBER: P3SQAS02R459040DE010 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	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°	15621	15621	15621	15621	15621
5°	42632	32813	14453	2904	1089
10°	61243	48127	10458	280	227
15°	78843	57251	5563	89	0
20°	106263	63688	2108	0	0
25°	120192	67288	551	0	0
30°	133598	63438	60	0	0
35°	144817	50585	0	0	0
40°	140356	31767	0	0	0
45°	111258	15125	0	0	0
50°	72824	1902	0	0	0
55°	12521	0	0	0	0
60°	0	0	103	0	0
65°	0	122	122	0	0
70°	0	151	252	0	0
75°	0	200	333	0	0
80°	0	298	496	298	0
85°	0	593	988	593	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 111258 cd/sqm

TEST NUMBER: P1309788

CATALOG NUMBER: P3SQAS02R459040DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.8	3.7
10°-20°	41.6	14.2
20°-30°	77.9	26.7
30°-40°	90.9	31.1
40°-50°	59.3	20.3
50°-60°	11.0	3.8
60°-70°	0.1	0.0
70°-80°	0.2	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°	130.3	44.6
0°-40°	221.2	75.7
0°-60°	291.4	99.8
0°-90°	292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	292.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	91	91	91	91	91	
5°	247	190	84	17	6	26
15°	442	321	31	0	0	132
25°	632	354	3	0	0	292
35°	689	241	0	0	0	422
45°	457	62	0	0	0	347
55°	42	0	0	0	0	72
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: P1309788

CATALOG NUMBER: P3SQAS02R459040DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
2.5°	159.9	161.2	158.6	157.5	154.1	154.9	149.1	146.8	143.1	137.1	134.2
5°	246.6	244.3	242.2	237.7	235.1	228.0	220.2	211.3	200.5	189.8	177.4
7.5°	308.5	306.7	305.9	302.2	297.0	289.6	279.4	268.1	254.2	239.8	221.2
10°	350.2	348.3	345.2	341.5	337.3	331.3	321.3	309.0	293.8	275.2	253.5
12.5°	377.4	377.2	371.9	367.7	362.5	357.2	347.0	337.1	322.1	303.0	278.4
15°	442.2	438.0	431.2	419.4	404.7	391.1	374.5	358.8	342.6	321.1	293.6
17.5°	522.9	518.2	506.6	491.7	468.1	442.2	413.9	389.0	364.6	335.5	303.0
20°	579.8	577.9	568.2	550.9	525.8	491.4	454.2	419.1	384.8	347.5	307.4
22.5°	616.2	615.2	611.2	599.4	573.7	535.2	487.2	440.1	398.7	355.1	306.1
25°	632.5	633.8	634.3	628.5	607.8	568.5	511.6	456.1	406.5	354.1	296.2
27.5°	644.0	644.0	646.1	643.5	622.5	581.1	521.1	461.6	403.9	341.3	275.2
30°	671.8	671.2	672.6	665.5	636.4	585.0	516.9	452.7	389.0	319.0	245.1
32.5°	683.8	684.3	684.1	672.8	639.0	582.4	506.6	435.6	361.4	284.1	205.2
35°	688.8	686.4	676.7	651.1	608.3	547.5	477.8	406.8	322.9	240.6	162.0
37.5°	672.3	665.5	644.0	608.9	556.7	498.3	430.1	355.1	271.8	188.7	121.9
40°	624.3	615.4	588.4	546.0	498.3	445.6	373.8	294.6	212.6	141.3	85.4
42.5°	556.4	546.2	517.1	480.2	436.7	381.4	309.8	230.7	155.7	97.5	54.3
45°	456.8	451.1	434.3	403.1	360.4	303.0	237.5	168.3	107.7	62.1	27.8
47.5°	353.3	346.0	333.9	312.4	276.8	222.3	166.2	114.3	69.2	30.7	5.8
50°	271.8	263.2	248.5	224.6	187.4	148.3	107.7	71.3	35.1	7.1	0.3
52.5°	156.5	158.3	151.2	136.0	115.3	88.9	62.4	35.9	7.9	0.3	0.0
55°	41.7	45.1	44.0	47.4	41.7	35.1	25.9	6.8	0.5	0.0	0.0
57.5°	0.0	0.0	0.3	0.5	1.6	2.4	0.8	0.3	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	0.3	0.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
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: P1309788

CATALOG NUMBER: P3SQAS02R459040DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
2.5°	127.6	122.1	115.3	90.2	67.9	48.8	38.0	35.1
5°	165.6	152.3	135.0	83.6	41.9	16.8	7.6	6.3
7.5°	201.6	181.9	150.7	73.1	21.2	4.2	2.1	1.8
10°	229.3	202.9	162.2	59.8	7.9	1.6	1.3	1.3
12.5°	248.5	216.2	166.4	45.3	2.9	0.8	0.8	0.5
15°	259.5	221.5	162.5	31.2	1.0	0.5	0.0	0.0
17.5°	262.9	219.4	152.0	19.7	0.3	0.0	0.0	0.0
20°	260.0	209.2	135.5	11.5	0.0	0.0	0.0	0.0
22.5°	250.6	193.2	115.6	6.3	0.0	0.0	0.0	0.0
25°	233.0	170.6	92.3	2.9	0.0	0.0	0.0	0.0
27.5°	204.4	141.5	69.5	1.0	0.0	0.0	0.0	0.0
30°	171.9	110.3	49.3	0.3	0.0	0.0	0.0	0.0
32.5°	134.2	81.3	31.7	0.0	0.0	0.0	0.0	0.0
35°	100.9	56.9	18.9	0.0	0.0	0.0	0.0	0.0
37.5°	70.2	35.9	10.0	0.0	0.0	0.0	0.0	0.0
40°	43.8	19.4	3.4	0.0	0.0	0.0	0.0	0.0
42.5°	24.4	6.8	0.3	0.0	0.0	0.0	0.0	0.0
45°	5.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.3	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	0.3	0.0	0.0	0.0	0.0
60°	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0
62.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
65°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
67.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
70°	0.3	0.3	0.3	0.5	0.3	0.0	0.0	0.0
72.5°	0.3	0.3	0.5	0.5	0.3	0.0	0.0	0.0
75°	0.3	0.3	0.5	0.5	0.3	0.0	0.0	0.0
77.5°	0.3	0.5	0.5	0.5	0.3	0.3	0.0	0.0
80°	0.3	0.5	0.5	0.5	0.5	0.3	0.0	0.0
82.5°	0.3	0.5	0.5	0.5	0.5	0.3	0.0	0.0
85°	0.3	0.5	0.5	0.5	0.3	0.3	0.0	0.0
87.5°	0.3	0.5	0.5	0.5	0.5	0.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)