

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: P1316904

Luminaire Tested: P3SQAS05R709830DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316904
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: P3SQAS05R709830DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

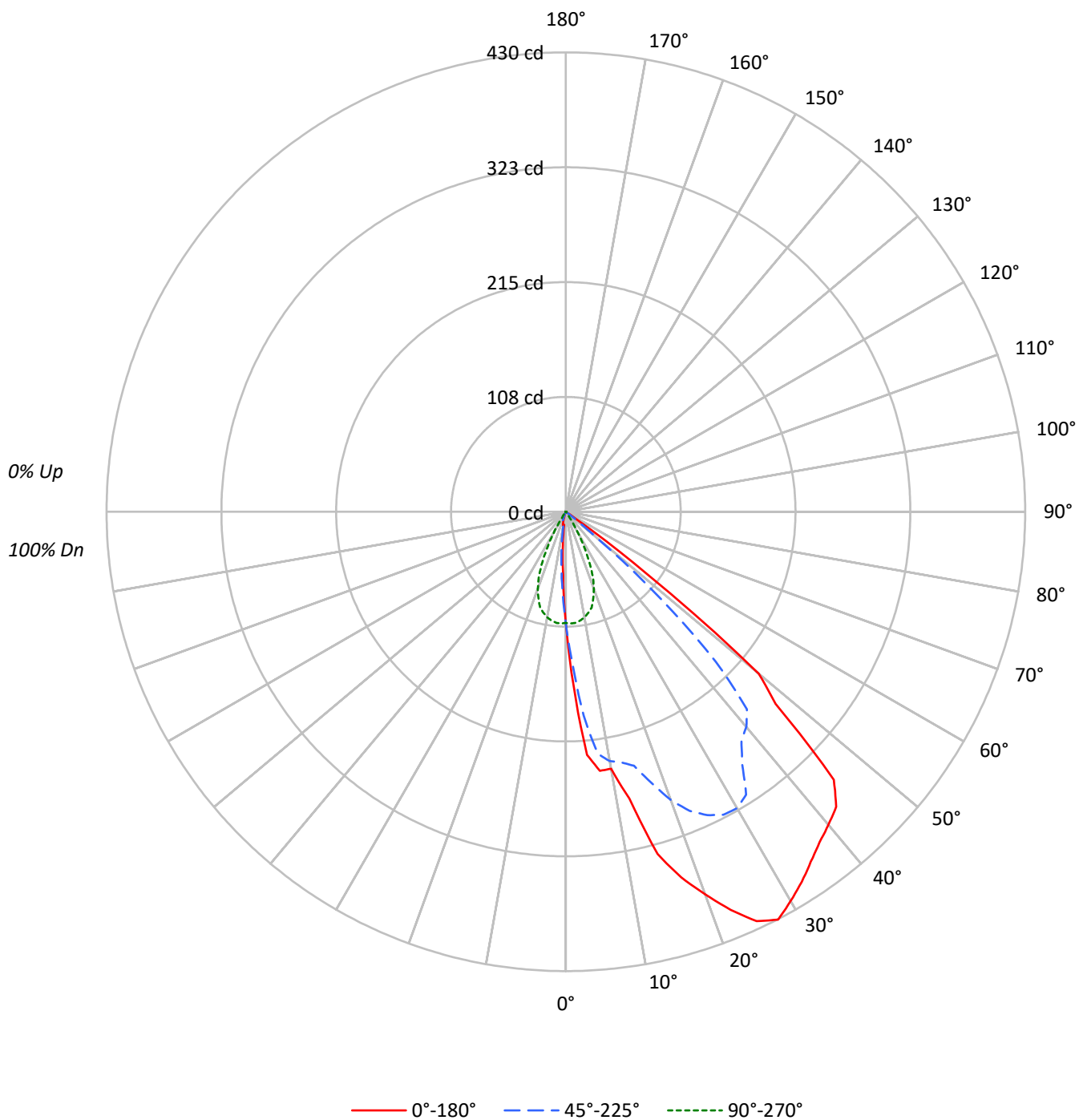
Lumens per Lamp: N/A
Luminaire Lumens: 280.0 lumens
Efficiency: N/A
Efficacy: 38.9 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1316904

CATALOG NUMBER: P3SQAS05R709830DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1316904

CATALOG NUMBER: P3SQAS05R709830DE010 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	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°	17894	17894	17894	17894	17894
5°	39486	33124	18031	8195	5394
10°	42706	41464	17558	2273	2343
15°	59106	43897	16564	2318	1694
20°	69810	52582	14057	1375	513
25°	80343	59535	9919	228	0
30°	83683	63717	4554	0	0
35°	84077	60403	252	0	0
40°	85994	59083	0	0	0
45°	86415	48395	0	0	0
50°	63098	10047	0	0	0
55°	3573	0	0	0	0
60°	0	138	138	0	0
65°	0	0	163	0	0
70°	0	201	201	0	0
75°	0	266	266	0	0
80°	0	397	397	397	0
85°	0	790	790	790	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 88047 cd/sqm

TEST NUMBER: P1316904

CATALOG NUMBER: P3SQAS05R709830DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.4	4.1
10°-20°	38.0	13.6
20°-30°	68.2	24.4
30°-40°	83.0	29.6
40°-50°	64.1	22.9
50°-60°	14.9	5.3
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°	117.6	42.0
0°-40°	200.5	71.6
0°-60°	279.5	99.8
0°-90°	280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	280.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	104	104	104	104	104	
5°	228	192	104	47	31	22
15°	332	246	93	13	10	93
25°	423	313	52	1	0	192
35°	400	287	1	0	0	251
45°	355	199	0	0	0	251
55°	12	0	0	0	0	49
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: P1316904

CATALOG NUMBER: P3SQAS05R709830DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9
2.5°	162.0	162.0	162.8	162.4	158.8	157.3	152.1	149.4	148.6	142.2	139.9
5°	228.4	228.8	226.8	226.4	222.5	219.7	215.3	208.6	201.9	191.6	182.5
7.5°	244.6	244.2	243.8	243.8	243.0	241.4	239.4	237.5	234.7	228.4	221.3
10°	244.2	244.2	243.8	243.8	243.4	243.8	243.4	242.2	241.0	237.1	233.1
12.5°	275.0	272.6	269.5	264.7	256.8	250.9	244.2	242.2	241.4	240.2	237.9
15°	331.5	329.5	322.8	314.5	306.6	293.2	282.5	267.9	256.4	246.2	241.0
17.5°	358.8	360.0	352.5	347.3	339.8	329.1	316.5	301.5	285.3	265.9	250.5
20°	380.9	382.1	375.8	370.6	361.9	350.9	339.8	323.6	308.2	286.9	266.7
22.5°	403.4	404.2	398.3	390.8	380.9	369.4	355.2	338.6	322.0	303.1	281.7
25°	422.8	422.0	412.1	401.4	392.0	379.7	365.9	349.7	333.9	313.3	293.2
27.5°	430.3	429.9	418.8	408.6	397.5	380.9	368.7	354.4	337.8	319.7	299.1
30°	420.8	427.1	420.0	412.5	399.1	382.5	370.6	353.6	338.2	320.4	297.1
32.5°	410.9	418.8	416.5	412.9	397.1	384.1	368.7	352.8	334.7	314.1	278.6
35°	399.9	408.2	408.6	404.6	390.4	377.3	363.1	346.5	326.0	287.3	261.2
37.5°	390.0	397.9	400.3	392.0	380.9	363.5	350.5	333.1	295.9	269.9	256.4
40°	382.5	388.4	392.0	378.9	367.9	350.9	335.9	305.4	271.8	262.8	243.8
42.5°	374.6	380.1	381.7	367.5	350.5	334.3	312.5	274.2	264.3	250.9	199.9
45°	354.8	361.5	357.6	343.8	331.1	314.1	281.7	265.1	254.5	198.7	122.9
47.5°	266.3	273.8	284.5	288.4	292.8	280.5	262.8	256.8	209.0	120.5	38.3
50°	235.5	234.3	234.3	236.3	239.8	243.8	248.9	216.5	125.6	37.5	0.0
52.5°	96.0	100.8	124.1	145.0	169.1	193.2	200.7	132.8	49.0	0.8	0.0
55°	11.9	11.9	16.6	28.4	47.0	75.9	85.3	42.7	3.6	0.0	0.0
57.5°	0.0	0.0	0.0	0.4	3.2	8.7	5.9	1.6	0.4	0.4	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
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	0.4	0.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
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: P1316904

CATALOG NUMBER: P3SQAS05R709830DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9
2.5°	135.9	131.2	124.5	104.7	87.7	72.7	64.0	59.7
5°	173.9	162.4	147.0	104.3	71.1	47.4	35.6	31.2
7.5°	210.2	197.2	171.1	102.7	54.5	27.7	15.4	12.2
10°	226.0	216.5	193.2	100.4	39.5	13.0	13.0	13.4
12.5°	232.3	225.2	206.3	96.8	26.1	12.6	13.4	12.6
15°	236.7	230.0	212.6	92.9	15.0	13.0	10.7	9.5
17.5°	239.1	231.1	214.6	85.3	9.9	11.1	6.7	5.5
20°	246.6	233.9	216.1	76.7	9.5	7.5	3.6	2.8
22.5°	259.2	239.4	216.5	66.0	7.5	4.3	1.2	0.0
25°	270.7	247.0	217.7	52.2	2.4	1.2	0.0	0.0
27.5°	276.2	249.3	217.3	36.7	0.0	0.0	0.0	0.0
30°	269.5	243.4	213.8	22.9	0.0	0.0	0.0	0.0
32.5°	253.7	239.1	202.7	9.9	0.0	0.0	0.0	0.0
35°	248.5	229.6	177.4	1.2	0.0	0.0	0.0	0.0
37.5°	237.1	202.3	130.4	0.0	0.0	0.0	0.0	0.0
40°	203.9	146.2	62.0	0.0	0.0	0.0	0.0	0.0
42.5°	134.7	62.4	3.6	0.0	0.0	0.0	0.0	0.0
45°	47.4	4.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.8	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°	0.4	0.4	0.4	0.4	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	0.4	0.4	0.0	0.0	0.0	0.0
67.5°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
70°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
72.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
75°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
77.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0
87.5°	0.4	0.4	0.4	0.4	0.4	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)