

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: P1313660

Luminaire Tested: P3SQAS20R159730D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R159730D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

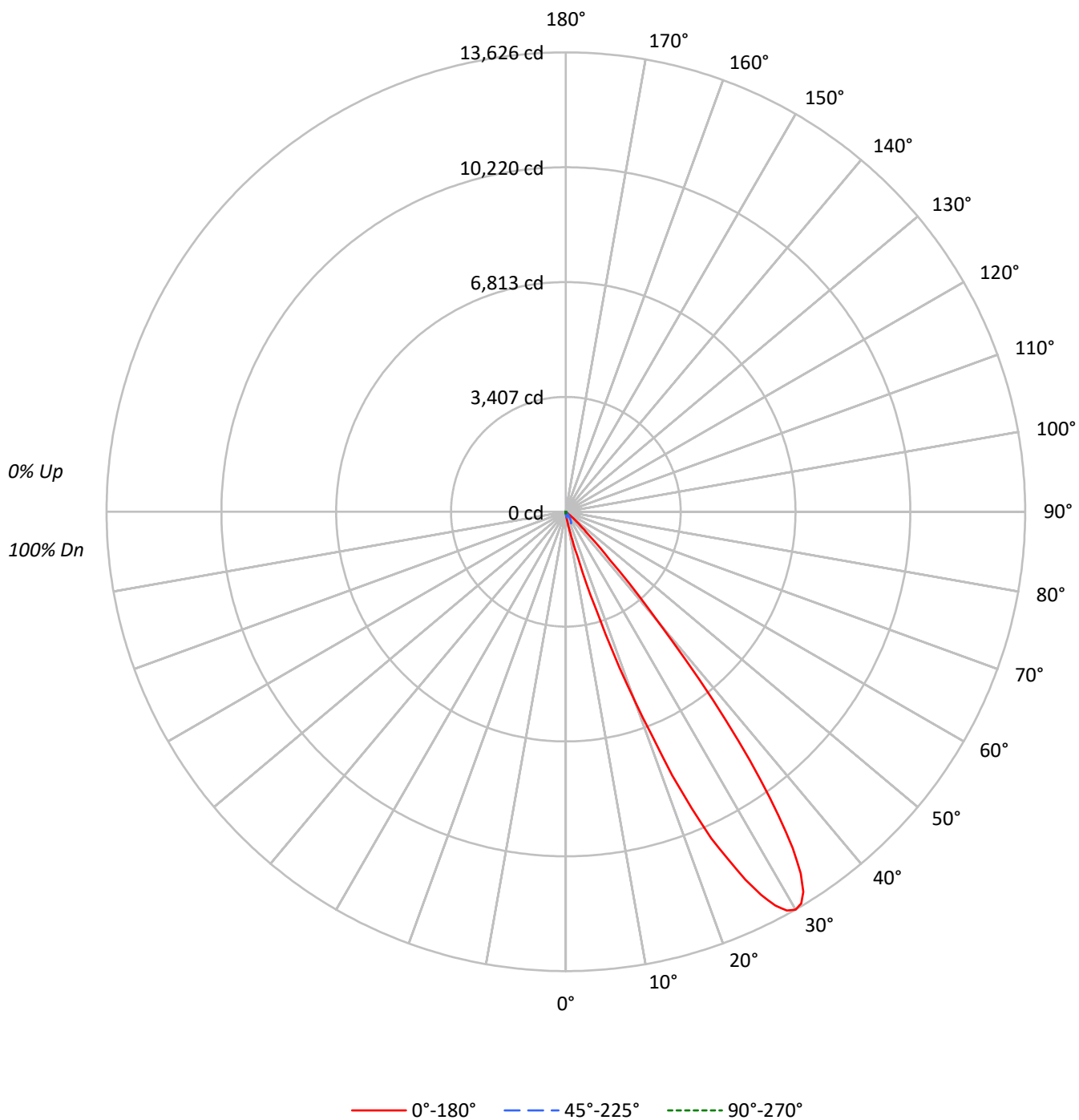
Lumens per Lamp: N/A
Luminaire Lumens: 1441.0 lumens
Efficiency: N/A
Efficacy: 50.0 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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

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Luminous Intensity Polar Plot



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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	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	94	92
2	106	100	96	92	104	99	94	91	95	92	89		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71		79	74	70		77	73	70	68
5	87	77	70	65	85	76	70	65	74	68	64		72	67	63		71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58		67	61	57		65	60	57	55
7	76	65	57	52	74	64	57	52	63	56	52		61	56	52		60	55	51	50
8	71	59	52	47	69	59	52	47	58	51	47		56	51	47		55	50	46	45
9	66	55	47	43	65	54	47	43	53	47	42		52	46	42		51	46	42	41
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8869	8869	8869	8869	8869
5°	25673	19380	7589	3146	2092
10°	66786	28890	5037	0	0
15°	266930	47285	2710	0	0
20°	1090581	69700	825	0	0
25°	2155852	69113	0	0	0
30°	2709643	54549	0	0	0
35°	2311959	33450	0	0	0
40°	951823	10567	0	0	0
45°	205930	4433	0	0	0
50°	26391	0	0	0	0
55°	2282	0	450	0	0
60°	0	0	1033	0	0
65°	0	0	1223	0	0
70°	0	755	2266	0	0
75°	0	998	2994	0	0
80°	0	1488	4463	0	0
85°	0	2964	8892	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 215526 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.9	0.5
10°-20°	101.0	7.0
20°-30°	588.6	40.8
30°-40°	631.1	43.8
40°-50°	106.5	7.4
50°-60°	3.2	0.2
60°-70°	0.9	0.1
70°-80°	1.4	0.1
80°-90°	1.3	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°	696.5	48.3
0°-40°	1327.6	92.1
0°-60°	1437.4	99.8
0°-90°	1441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1441.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	52	52	52	52	52	
5°	148	112	44	18	12	20
15°	1497	265	15	0	0	693
25°	11345	364	0	0	0	5133
35°	10996	159	0	0	0	6320
45°	846	18	0	0	0	999
55°	8	0	2	0	0	19
65°	0	0	3	0	0	0
75°	0	2	4	0	0	0
85°	0	2	4	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
2.5°	93.9	95.5	97.0	97.0	97.0	97.0	95.5	95.5	95.5	95.5	93.9
5°	148.5	148.5	148.5	148.5	148.5	148.5	147.0	147.0	147.0	147.0	147.0
7.5°	212.1	209.1	210.6	206.1	209.1	207.6	206.1	209.1	209.1	201.5	201.5
10°	381.9	380.3	365.2	368.2	371.2	369.7	369.7	360.6	359.1	353.1	347.0
12.5°	736.4	753.1	765.2	765.2	736.4	747.0	727.3	731.9	734.9	725.8	694.0
15°	1497.1	1524.4	1495.6	1522.9	1512.3	1472.9	1428.9	1369.8	1392.6	1351.6	1338.0
17.5°	3279.1	3341.2	3315.5	3189.7	3230.6	3133.6	3073.0	3050.3	2986.6	2797.2	2718.4
20°	5950.5	6026.3	5955.1	5808.1	5855.1	5671.7	5624.8	5580.8	5299.0	5195.9	4865.6
21°	7074.9	7137.0	7164.3	7011.2	6917.3	6771.8	6650.6	6611.2	6440.0	6241.5	5902.1
22°	8432.6	8359.9	8196.2	8217.4	8078.0	7958.3	7790.1	7631.0	7440.1	7162.8	6882.4
23°	9556.9	9472.1	9394.8	9300.8	9150.8	9066.0	8825.0	8650.8	8402.3	8105.3	7835.6
24°	10604.0	10473.7	10425.2	10258.5	10216.1	10025.2	9829.7	9602.4	9302.4	8985.7	8687.2
25°	11345.0	11364.7	11322.2	11302.5	11085.9	10890.4	10696.4	10346.4	10090.3	9810.0	9350.9
26°	12139.0	12148.1	12126.9	11981.4	11785.9	11595.0	11345.0	11040.4	10669.2	10358.5	9943.3
27°	12746.6	12710.2	12679.9	12507.2	12346.6	12105.6	11878.4	11517.7	11155.6	10785.8	10304.0
28°	13231.5	13163.3	13125.4	12976.9	12789.0	12493.6	12214.7	11878.4	11516.2	11119.2	10597.9
29°	13524.0	13451.2	13408.8	13245.1	13028.5	12769.3	12487.5	12117.8	11728.3	11285.9	10761.6
30°	13625.5	13583.1	13516.4	13346.7	13122.4	12852.7	12563.3	12161.7	11754.1	11301.0	10746.4
31°	13558.8	13504.3	13440.6	13257.3	13014.8	12757.2	12420.8	11999.6	11570.8	11138.9	10551.0
32°	13293.6	13260.3	13183.0	12937.5	12740.6	12407.2	12075.3	11681.4	11213.1	10749.5	10217.6
33°	12796.6	12742.1	12675.4	12451.1	12199.6	11879.9	11549.5	11146.5	10681.3	10191.8	9606.9
34°	12039.0	11969.3	11885.9	11735.9	11414.7	11137.4	10755.5	10284.3	9899.4	9429.6	8900.8
35°	10996.5	10894.9	10794.9	10681.3	10320.6	10064.6	9807.0	9396.3	9025.1	8582.6	7984.1
36°	9826.7	9787.3	9705.4	9405.4	9288.7	8940.2	8732.6	8261.4	7961.3	7528.0	7034.0
37°	8503.8	8272.0	8390.2	8222.0	7870.4	7761.3	7514.3	7109.7	6785.5	6327.8	5970.2
38°	7085.5	6934.0	7017.3	6847.6	6664.2	6412.7	6224.8	5929.3	5565.7	5206.5	4867.1
39°	5615.7	5492.9	5583.8	5468.7	5189.9	5085.3	4918.6	4692.9	4400.4	4120.1	3798.8
40°	4233.7	4076.1	4197.4	4033.7	3906.4	3735.2	3650.3	3442.7	3260.9	3092.7	2888.1
42.5°	1933.5	1916.8	1889.6	1830.5	1816.8	1818.3	1713.8	1645.6	1553.2	1445.6	1380.4
45°	845.5	866.7	884.9	851.6	850.1	831.9	825.8	780.4	762.2	727.3	684.9
47.5°	416.7	424.3	419.7	428.8	421.3	409.1	406.1	400.0	381.9	380.3	360.6
50°	98.5	97.0	97.0	98.5	97.0	97.0	95.5	92.4	90.9	92.4	87.9
52.5°	31.8	33.3	31.8	30.3	31.8	33.3	31.8	31.8	31.8	31.8	31.8
55°	7.6	7.6	7.6	7.6	7.6	7.6	6.1	6.1	7.6	7.6	7.6
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
2.5°	92.4	78.8	65.2	51.5	37.9	30.3	28.8	27.3
5°	139.4	112.1	74.2	43.9	25.8	18.2	13.6	12.1
7.5°	187.9	139.4	81.8	36.4	18.2	7.6	3.0	1.5
10°	269.7	165.2	84.9	28.8	9.1	0.0	0.0	0.0
12.5°	528.8	189.4	83.3	22.7	1.5	0.0	0.0	0.0
15°	878.9	265.2	77.3	15.2	0.0	0.0	0.0	0.0
17.5°	1439.5	342.5	66.7	10.6	0.0	0.0	0.0	0.0
20°	2232.0	380.3	51.5	4.5	0.0	0.0	0.0	0.0
21°	2616.9	383.4	45.5	3.0	0.0	0.0	0.0	0.0
22°	2950.3	383.4	39.4	1.5	0.0	0.0	0.0	0.0
23°	3259.4	378.8	34.9	0.0	0.0	0.0	0.0	0.0
24°	3514.0	372.8	31.8	0.0	0.0	0.0	0.0	0.0
25°	3704.9	363.7	28.8	0.0	0.0	0.0	0.0	0.0
26°	3792.8	351.5	24.2	0.0	0.0	0.0	0.0	0.0
27°	3836.7	334.9	21.2	0.0	0.0	0.0	0.0	0.0
28°	3806.4	316.7	18.2	0.0	0.0	0.0	0.0	0.0
29°	3730.6	297.0	13.6	0.0	0.0	0.0	0.0	0.0
30°	3632.1	274.3	10.6	0.0	0.0	0.0	0.0	0.0
31°	3488.2	251.5	7.6	0.0	0.0	0.0	0.0	0.0
32°	3291.2	228.8	6.1	0.0	0.0	0.0	0.0	0.0
33°	3027.5	204.6	3.0	0.0	0.0	0.0	0.0	0.0
34°	2701.8	180.3	1.5	0.0	0.0	0.0	0.0	0.0
35°	2336.6	159.1	0.0	0.0	0.0	0.0	0.0	0.0
36°	2022.9	136.4	0.0	0.0	0.0	0.0	0.0	0.0
37°	1707.7	109.1	0.0	0.0	0.0	0.0	0.0	0.0
38°	1430.4	86.4	0.0	0.0	0.0	0.0	0.0	0.0
39°	1183.4	69.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	980.4	47.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	542.5	31.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	328.8	18.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	190.9	6.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	72.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	24.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.1	0.0	0.0	1.5	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.5	3.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.5	3.0	1.5	0.0	0.0	0.0
65°	0.0	0.0	3.0	3.0	1.5	0.0	0.0	0.0
67.5°	0.0	0.0	3.0	4.5	1.5	0.0	0.0	0.0
70°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
72.5°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
75°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
77.5°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
80°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
85°	0.0	1.5	3.0	4.5	1.5	0.0	0.0	0.0
87.5°	0.0	1.5	3.0	4.5	1.5	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)