

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: P1311571

Luminaire Tested: P3SQAS20R159050D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311571
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: P3SQAS20R159050D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

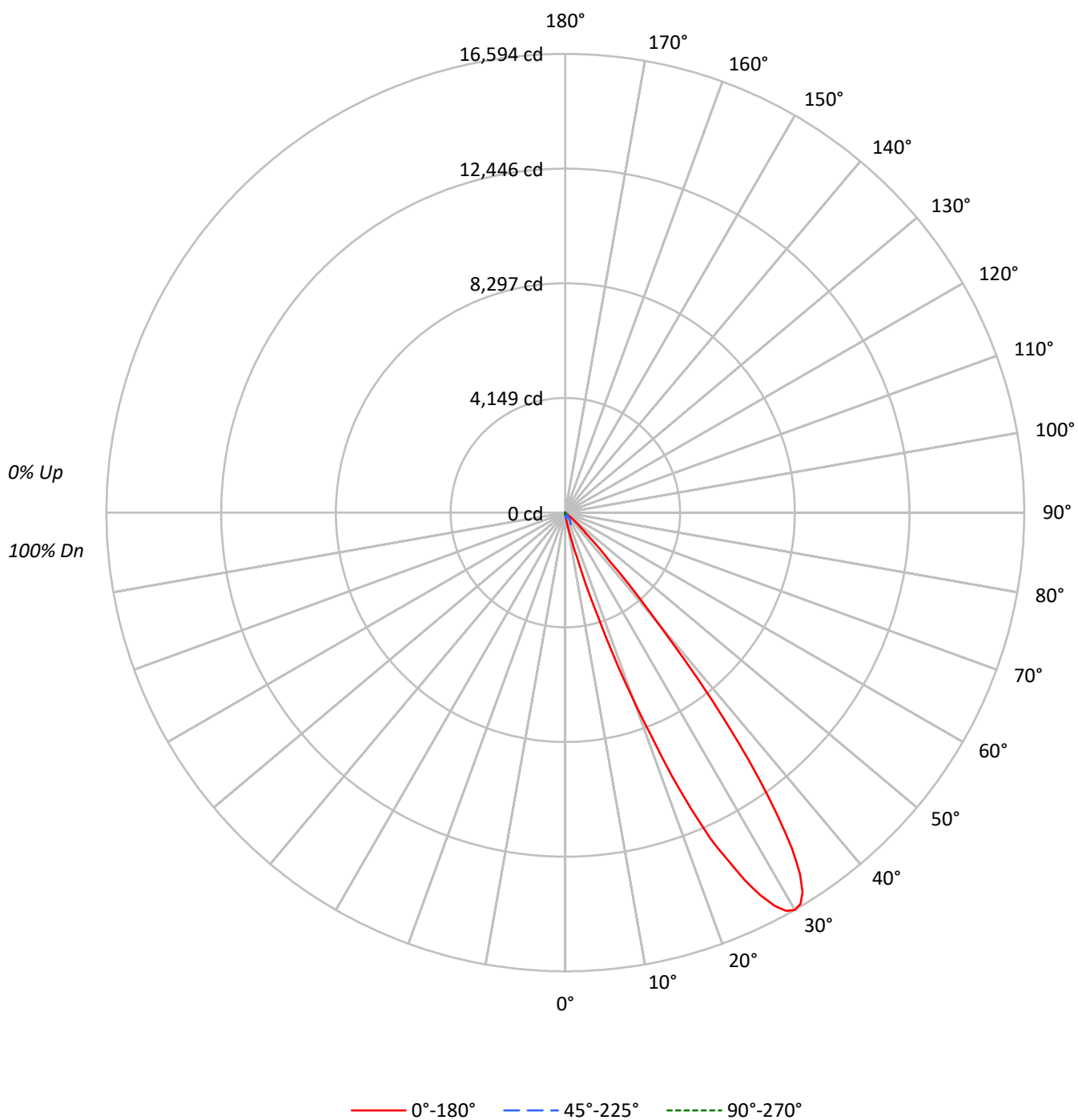
Lumens per Lamp: N/A
Luminaire Lumens: 1755.0 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1311571

CATALOG NUMBER: P3SQAS20R159050D010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1311571

CATALOG NUMBER: P3SQAS20R159050D010 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	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°	10798	10798	10798	10798	10798
5°	31274	23615	9249	3821	2559
10°	81336	35186	6138	0	0
15°	325091	57590	3299	0	0
20°	1328234	84893	1008	0	0
25°	2625617	84163	0	0	0
30°	3300075	66421	0	0	0
35°	2815728	40745	0	0	0
40°	1159243	12860	0	0	0
45°	250818	5383	0	0	0
50°	32152	0	0	0	0
55°	2762	0	540	0	0
60°	0	0	1274	0	0
65°	0	0	1508	0	0
70°	0	906	2769	0	0
75°	0	1198	3660	0	0
80°	0	1785	5455	0	0
85°	0	3557	10868	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 262509 cd/sqm

TEST NUMBER: P1311571

CATALOG NUMBER: P3SQAS20R159050D010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.5
10°-20°	123.0	7.0
20°-30°	716.9	40.8
30°-40°	768.7	43.8
40°-50°	129.7	7.4
50°-60°	3.9	0.2
60°-70°	1.1	0.1
70°-80°	1.7	0.1
80°-90°	1.5	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°	848.3	48.3
0°-40°	1616.9	92.1
0°-60°	1750.6	99.8
0°-90°	1755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1755.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	63	63	63	63	63	
5°	181	137	54	22	15	25
15°	1823	323	18	0	0	843
25°	13817	443	0	0	0	6251
35°	13393	194	0	0	0	7697
45°	1030	22	0	0	0	1216
55°	9	0	2	0	0	23
65°	0	0	4	0	0	0
75°	0	2	6	0	0	0
85°	0	2	6	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1311571

CATALOG NUMBER: P3SQAS20R159050D010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
2.5°	114.4	116.3	118.1	118.1	118.1	118.1	116.3	116.3	116.3	116.3	114.4
5°	180.9	180.9	180.9	180.9	180.9	180.9	179.0	179.0	179.0	179.0	179.0
7.5°	258.4	254.7	256.5	251.0	254.7	252.8	251.0	254.7	254.7	245.4	245.4
10°	465.1	463.2	444.8	448.5	452.1	450.3	450.3	439.2	437.4	430.0	422.6
12.5°	896.9	917.2	932.0	932.0	896.9	909.8	885.8	891.4	895.1	884.0	845.2
15°	1823.3	1856.6	1821.5	1854.7	1841.8	1793.8	1740.3	1668.3	1696.0	1646.2	1629.6
17.5°	3993.6	4069.3	4037.9	3884.7	3934.6	3816.4	3742.6	3714.9	3637.4	3406.8	3310.8
20°	7247.2	7339.5	7252.7	7073.7	7130.9	6907.6	6850.4	6796.9	6453.6	6328.1	5925.8
21°	8616.5	8692.2	8725.4	8539.0	8424.6	8247.4	8099.8	8051.8	7843.3	7601.5	7188.1
22°	10270.1	10181.5	9982.2	10008.0	9838.2	9692.4	9487.6	9293.8	9061.3	8723.6	8382.2
23°	11639.4	11536.1	11442.0	11327.5	11144.8	11041.5	10748.1	10535.8	10233.2	9871.5	9543.0
24°	12914.7	12755.9	12696.9	12493.9	12442.2	12209.7	11971.6	11694.8	11329.4	10943.7	10580.1
25°	13817.1	13841.1	13789.4	13765.4	13501.5	13263.4	13027.2	12600.9	12289.0	11947.6	11388.4
26°	14784.1	14795.2	14769.4	14592.2	14354.1	14121.6	13817.1	13446.1	12994.0	12615.7	12110.0
27°	15524.2	15479.9	15443.0	15232.6	15037.0	14743.5	14466.7	14027.5	13586.4	13136.1	12549.2
28°	16114.7	16031.7	15985.5	15804.7	15575.8	15216.0	14876.4	14466.7	14025.6	13542.1	12907.3
29°	16470.9	16382.3	16330.6	16131.3	15867.4	15551.8	15208.6	14758.3	14284.0	13745.1	13106.6
30°	16594.5	16542.9	16461.7	16255.0	15981.8	15653.3	15300.9	14811.8	14315.4	13763.6	13088.1
31°	16513.3	16446.9	16369.4	16146.1	15850.8	15537.1	15127.4	14614.3	14092.1	13566.1	12850.1
32°	16190.4	16149.8	16055.7	15756.7	15516.8	15110.8	14706.6	14226.8	13656.5	13091.8	12444.1
33°	15585.1	15518.6	15437.4	15164.3	14857.9	14468.5	14066.2	13575.3	13008.8	12412.7	11700.3
34°	14662.3	14577.4	14475.9	14293.2	13902.0	13564.3	13099.2	12525.3	12056.5	11484.4	10840.3
35°	13392.6	13269.0	13147.2	13008.8	12569.5	12257.7	11943.9	11443.8	10991.7	10452.8	9723.8
36°	11967.9	11919.9	11820.3	11454.9	11312.8	10888.3	10635.5	10061.5	9696.1	9168.3	8566.7
37°	10356.8	10074.5	10218.4	10013.6	9585.4	9452.5	9151.7	8659.0	8264.0	7706.7	7271.2
38°	8629.5	8444.9	8546.4	8339.7	8116.4	7810.1	7581.2	7221.4	6778.4	6341.1	5927.7
39°	6839.3	6689.9	6800.6	6660.3	6320.8	6193.4	5990.4	5715.4	5359.3	5017.9	4626.6
40°	5156.3	4964.3	5112.0	4912.7	4757.6	4549.1	4445.8	4192.9	3971.5	3766.6	3517.5
42.5°	2354.8	2334.5	2301.3	2229.3	2212.7	2214.6	2087.2	2004.2	1891.6	1760.6	1681.2
45°	1029.8	1055.6	1077.8	1037.2	1035.3	1013.2	1005.8	950.4	928.3	885.8	834.2
47.5°	507.5	516.7	511.2	522.3	513.0	498.3	494.6	487.2	465.1	463.2	439.2
50°	120.0	118.1	118.1	120.0	118.1	118.1	116.3	112.6	110.7	112.6	107.0
52.5°	38.8	40.6	38.8	36.9	38.8	40.6	38.8	38.8	38.8	38.8	38.8
55°	9.2	9.2	9.2	9.2	9.2	9.2	7.4	7.4	9.2	9.2	9.2
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



TEST NUMBER: P1311571

CATALOG NUMBER: P3SQAS20R159050D010 E3SQCA301MMS

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

TEST NUMBER: P1311571

CATALOG NUMBER: P3SQAS20R159050D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
2.5°	112.6	96.0	79.4	62.7	46.1	36.9	35.1	33.2
5°	169.8	136.6	90.4	53.5	31.4	22.1	16.6	14.8
7.5°	228.8	169.8	99.7	44.3	22.1	9.2	3.7	1.8
10°	328.5	201.2	103.3	35.1	11.1	0.0	0.0	0.0
12.5°	644.1	230.7	101.5	27.7	1.8	0.0	0.0	0.0
15°	1070.4	323.0	94.1	18.5	0.0	0.0	0.0	0.0
17.5°	1753.2	417.1	81.2	12.9	0.0	0.0	0.0	0.0
20°	2718.4	463.2	62.7	5.5	0.0	0.0	0.0	0.0
21°	3187.1	466.9	55.4	3.7	0.0	0.0	0.0	0.0
22°	3593.1	466.9	48.0	1.8	0.0	0.0	0.0	0.0
23°	3969.6	461.4	42.4	0.0	0.0	0.0	0.0	0.0
24°	4279.7	454.0	38.8	0.0	0.0	0.0	0.0	0.0
25°	4512.2	442.9	35.1	0.0	0.0	0.0	0.0	0.0
26°	4619.2	428.2	29.5	0.0	0.0	0.0	0.0	0.0
27°	4672.7	407.9	25.8	0.0	0.0	0.0	0.0	0.0
28°	4635.8	385.7	22.1	0.0	0.0	0.0	0.0	0.0
29°	4543.6	361.7	16.6	0.0	0.0	0.0	0.0	0.0
30°	4423.6	334.0	12.9	0.0	0.0	0.0	0.0	0.0
31°	4248.3	306.3	9.2	0.0	0.0	0.0	0.0	0.0
32°	4008.4	278.7	7.4	0.0	0.0	0.0	0.0	0.0
33°	3687.3	249.1	3.7	0.0	0.0	0.0	0.0	0.0
34°	3290.5	219.6	1.8	0.0	0.0	0.0	0.0	0.0
35°	2845.7	193.8	0.0	0.0	0.0	0.0	0.0	0.0
36°	2463.7	166.1	0.0	0.0	0.0	0.0	0.0	0.0
37°	2079.9	132.9	0.0	0.0	0.0	0.0	0.0	0.0
38°	1742.1	105.2	0.0	0.0	0.0	0.0	0.0	0.0
39°	1441.3	84.9	0.0	0.0	0.0	0.0	0.0	0.0
40°	1194.0	57.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	660.7	38.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	400.5	22.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	232.5	7.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	88.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	29.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7.4	0.0	0.0	1.8	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.8	3.7	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.8	3.7	1.8	0.0	0.0	0.0
65°	0.0	0.0	3.7	3.7	1.8	0.0	0.0	0.0
67.5°	0.0	0.0	3.7	5.5	1.8	0.0	0.0	0.0
70°	0.0	1.8	3.7	5.5	1.8	0.0	0.0	0.0
72.5°	0.0	1.8	3.7	5.5	1.8	0.0	0.0	0.0
75°	0.0	1.8	3.7	5.5	1.8	0.0	0.0	0.0
77.5°	0.0	1.8	3.7	5.5	1.8	0.0	0.0	0.0
80°	0.0	1.8	3.7	5.5	1.8	0.0	0.0	0.0



TEST NUMBER: P1311571

CATALOG NUMBER: P3SQAS20R159050D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.8	3.7	5.5	1.8	0.0	0.0	0.0
85°	0.0	1.8	3.7	5.5	1.8	0.0	0.0	0.0
87.5°	0.0	1.8	3.7	5.5	1.8	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)