

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: P1307170

Luminaire Tested: P3SQAS20R259027D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-49)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R259027D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

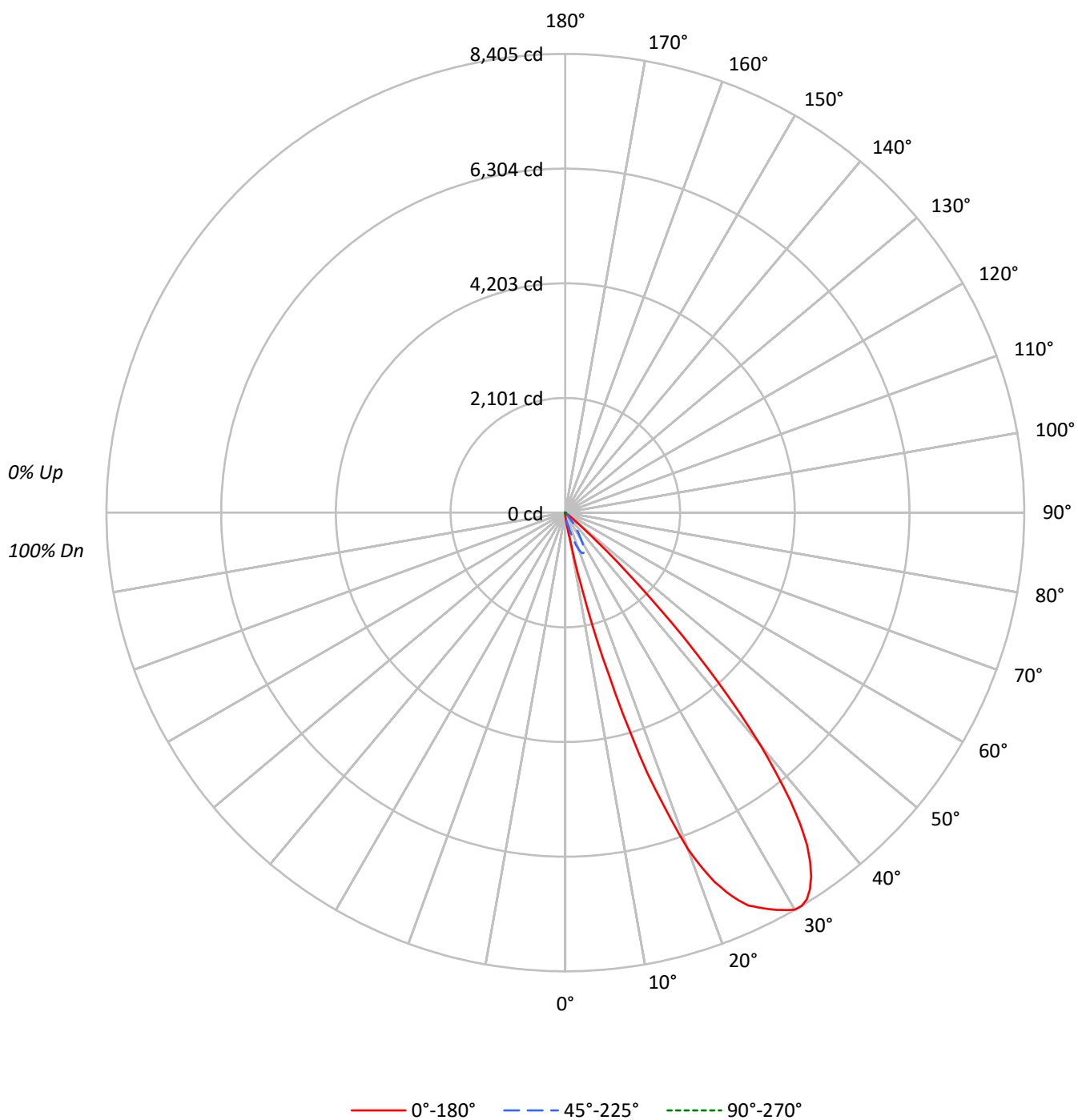
Lumens per Lamp: N/A
Luminaire Lumens: 1647.0 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 2.4 / 0.45 / 1.25
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1307170

CATALOG NUMBER: P3SQAS20R259027D010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1307170

CATALOG NUMBER: P3SQAS20R259027D010 E3SQCA301MB

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	93	92
2	106	100	95	92	103	98	94	90	95	92	88		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	80	87	83	79		85	81	78		83	79	77	75
4	93	84	77	72	91	83	76	72	80	75	71		78	74	70		76	72	69	67
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70	66	62	61
6	81	70	63	58	79	69	63	58	68	62	57		66	61	57		65	60	56	55
7	75	64	57	52	74	64	57	52	62	56	52		61	55	51		60	55	51	49
8	70	59	52	47	69	58	52	47	57	51	47		56	51	46		55	50	46	45
9	66	54	47	42	65	54	47	42	53	47	42		52	46	42		51	46	42	40
10	62	50	43	38	60	50	43	38	49	42	38		48	42	38		47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8973	8973	8973	8973	8973
5°	28093	19639	8177	4357	3267
10°	88559	35588	6068	560	0
15°	547624	67789	3655	0	0
20°	1200711	132123	1155	0	0
25°	1509325	151983	0	0	0
30°	1670829	117649	0	0	0
35°	1644705	66669	0	0	0
40°	1250160	17379	0	0	0
45°	506385	7672	0	0	0
50°	56212	857	0	0	0
55°	4264	0	480	0	0
60°	0	0	551	0	0
65°	0	0	1304	0	0
70°	0	806	1611	0	0
75°	0	1065	3127	0	0
80°	0	1587	4661	0	0
85°	0	3162	9287	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 506385 cd/sqm

TEST NUMBER: P1307170

CATALOG NUMBER: P3SQAS20R259027D010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.5
10°-20°	170.1	10.3
20°-30°	594.7	36.1
30°-40°	663.4	40.3
40°-50°	200.4	12.2
50°-60°	6.7	0.4
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°	772.9	46.9
0°-40°	1436.3	87.2
0°-60°	1643.4	99.8
0°-90°	1647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1647.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	52	52	52	52	52	
5°	162	114	47	25	19	25
15°	3071	380	20	0	0	1021
25°	7943	800	0	0	0	3623
35°	7823	317	0	0	0	4696
45°	2079	32	0	0	0	1796
55°	14	0	2	0	0	44
65°	0	0	3	0	0	0
75°	0	2	5	0	0	0
85°	0	2	5	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1307170

CATALOG NUMBER: P3SQAS20R259027D010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
2.5°	89.9	93.1	91.5	93.1	91.5	91.5	91.5	93.1	91.5	91.5	91.5
5°	162.5	164.1	164.1	162.5	162.5	165.6	162.5	164.1	159.3	162.5	160.9
7.5°	266.6	263.4	263.4	265.0	265.0	261.9	260.3	257.1	260.3	260.3	255.6
10°	506.4	503.2	495.3	492.2	495.3	495.3	479.6	482.7	484.3	470.1	465.4
12.5°	1487.6	1476.5	1498.6	1463.9	1443.4	1410.3	1429.2	1364.5	1350.3	1340.9	1318.8
15°	3071.4	3155.0	3118.7	3121.9	3128.2	3049.3	3076.1	2978.3	2896.3	2871.0	2853.7
17.5°	5008.6	5033.8	5000.7	4984.9	4978.6	4940.7	4895.0	4846.1	4783.0	4727.8	4682.0
20°	6551.4	6532.4	6475.6	6481.9	6414.1	6379.4	6340.0	6291.1	6242.2	6161.7	6084.4
21°	6958.4	6903.1	6904.7	6866.9	6865.3	6821.1	6751.7	6701.2	6657.0	6565.6	6516.7
22°	7292.8	7280.2	7251.8	7223.4	7193.4	7171.3	7094.0	7068.8	6978.9	6903.1	6833.7
23°	7553.1	7557.8	7532.6	7513.6	7472.6	7463.2	7363.8	7329.1	7267.5	7152.4	7081.4
24°	7769.2	7761.3	7732.9	7699.8	7676.1	7654.0	7578.3	7521.5	7453.7	7359.0	7289.6
25°	7942.7	7923.8	7904.8	7879.6	7841.7	7816.5	7739.2	7676.1	7617.7	7512.1	7417.4
26°	8045.2	8050.0	8020.0	8001.1	7967.9	7942.7	7862.3	7788.1	7715.5	7602.0	7516.8
27°	8149.4	8144.6	8117.8	8089.4	8054.7	8045.2	7952.2	7874.9	7800.7	7680.8	7579.9
28°	8245.6	8233.0	8210.9	8177.8	8139.9	8111.5	8021.6	7941.1	7860.7	7732.9	7622.5
29°	8326.0	8313.4	8299.2	8256.6	8207.7	8188.8	8092.6	7994.8	7914.3	7783.4	7666.6
30°	8401.8	8378.1	8345.0	8308.7	8261.4	8225.1	8124.1	8038.9	7944.3	7799.2	7687.2
31°	8404.9	8373.4	8349.7	8311.8	8258.2	8214.0	8108.3	8021.6	7911.2	7775.5	7654.0
32°	8349.7	8333.9	8296.1	8255.1	8203.0	8158.8	8042.1	7950.6	7846.5	7701.4	7579.9
33°	8225.1	8209.3	8187.2	8144.6	8076.8	8035.8	7931.7	7830.7	7728.2	7597.2	7458.4
34°	8053.1	8034.2	8005.8	7963.2	7893.8	7851.2	7767.6	7663.5	7554.6	7419.0	7289.6
35°	7822.8	7786.5	7778.6	7715.5	7650.9	7639.8	7540.4	7431.6	7321.2	7171.3	7059.3
36°	7537.3	7494.7	7466.3	7444.2	7401.6	7349.6	7251.8	7165.0	7023.0	6926.8	6769.1
37°	7147.7	7095.6	7122.4	7062.5	6996.2	6974.1	6849.5	6770.6	6650.7	6519.8	6385.7
38°	6693.3	6688.6	6682.3	6655.5	6541.9	6483.5	6431.5	6347.9	6243.7	6086.0	5904.6
39°	6119.1	6128.6	6095.5	6098.6	6041.8	5983.5	5910.9	5816.2	5690.0	5546.5	5399.8
40°	5560.7	5426.6	5450.3	5369.8	5374.5	5287.8	5193.1	5109.5	5029.1	4902.9	4702.5
42.5°	3847.5	3827.0	3756.0	3705.5	3727.6	3615.6	3491.0	3374.3	3262.3	3120.3	2945.2
45°	2079.1	2031.8	2046.0	1964.0	1964.0	1913.5	1878.8	1781.0	1676.9	1612.2	1511.2
47.5°	773.0	782.4	799.8	766.7	728.8	750.9	717.8	717.8	700.4	679.9	651.5
50°	209.8	213.0	209.8	209.8	205.1	201.9	195.6	194.0	192.5	187.7	179.8
52.5°	85.2	80.5	80.5	82.0	82.0	78.9	80.5	80.5	78.9	77.3	77.3
55°	14.2	15.8	15.8	15.8	15.8	14.2	14.2	15.8	17.4	15.8	15.8
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: P1307170

CATALOG NUMBER: P3SQAS20R259027D010 E3SQCA301MB

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: P1307170

CATALOG NUMBER: P3SQAS20R259027D010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
2.5°	88.3	77.3	64.7	53.6	42.6	36.3	33.1	34.7
5°	149.9	113.6	74.1	47.3	33.1	25.2	20.5	18.9
7.5°	230.3	156.2	83.6	41.0	25.2	12.6	7.9	6.3
10°	353.4	203.5	89.9	34.7	15.8	3.2	0.0	0.0
12.5°	907.1	249.2	91.5	28.4	6.3	0.0	0.0	0.0
15°	1864.6	380.2	88.3	20.5	1.6	0.0	0.0	0.0
17.5°	3099.8	582.1	77.3	14.2	0.0	0.0	0.0	0.0
20°	4300.3	720.9	61.5	6.3	0.0	0.0	0.0	0.0
21°	4661.5	761.9	55.2	4.7	0.0	0.0	0.0	0.0
22°	4956.5	791.9	48.9	3.2	0.0	0.0	0.0	0.0
23°	5202.6	807.7	42.6	1.6	0.0	0.0	0.0	0.0
24°	5374.5	810.8	39.4	1.6	0.0	0.0	0.0	0.0
25°	5456.6	799.8	34.7	0.0	0.0	0.0	0.0	0.0
26°	5488.1	777.7	31.5	0.0	0.0	0.0	0.0	0.0
27°	5464.5	749.3	28.4	0.0	0.0	0.0	0.0	0.0
28°	5421.9	706.7	23.7	0.0	0.0	0.0	0.0	0.0
29°	5338.3	649.9	20.5	0.0	0.0	0.0	0.0	0.0
30°	5257.8	591.6	17.4	0.0	0.0	0.0	0.0	0.0
31°	5166.3	539.5	14.2	0.0	0.0	0.0	0.0	0.0
32°	5054.3	479.6	11.0	0.0	0.0	0.0	0.0	0.0
33°	4868.2	424.3	7.9	0.0	0.0	0.0	0.0	0.0
34°	4607.9	372.3	6.3	0.0	0.0	0.0	0.0	0.0
35°	4259.2	317.1	4.7	0.0	0.0	0.0	0.0	0.0
36°	3877.5	258.7	3.2	0.0	0.0	0.0	0.0	0.0
37°	3410.6	187.7	3.2	0.0	0.0	0.0	0.0	0.0
38°	2923.1	118.3	1.6	0.0	0.0	0.0	0.0	0.0
39°	2424.6	89.9	1.6	0.0	0.0	0.0	0.0	0.0
40°	1968.7	77.3	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1053.8	52.1	0.0	0.0	0.0	0.0	0.0	0.0
45°	621.5	31.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	347.0	12.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	124.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	48.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	17.4	0.0	0.0	1.6	0.0	0.0	0.0	0.0
57.5°	1.6	0.0	1.6	1.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.6	1.6	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.6	3.2	0.0	0.0	0.0	0.0
65°	0.0	0.0	3.2	3.2	1.6	0.0	0.0	0.0
67.5°	0.0	1.6	3.2	3.2	1.6	0.0	0.0	0.0
70°	0.0	1.6	3.2	3.2	1.6	0.0	0.0	0.0
72.5°	0.0	1.6	3.2	4.7	1.6	0.0	0.0	0.0
75°	0.0	1.6	3.2	4.7	1.6	0.0	0.0	0.0
77.5°	0.0	1.6	3.2	4.7	1.6	0.0	0.0	0.0
80°	0.0	1.6	3.2	4.7	1.6	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	1.6	3.2	4.7	1.6	0.0	0.0	0.0
85°	0.0	1.6	3.2	4.7	1.6	0.0	0.0	0.0
87.5°	0.0	1.6	3.2	4.7	1.6	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)