

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: P1314700

Luminaire Tested: P3SQAS20R359735D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R359735D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

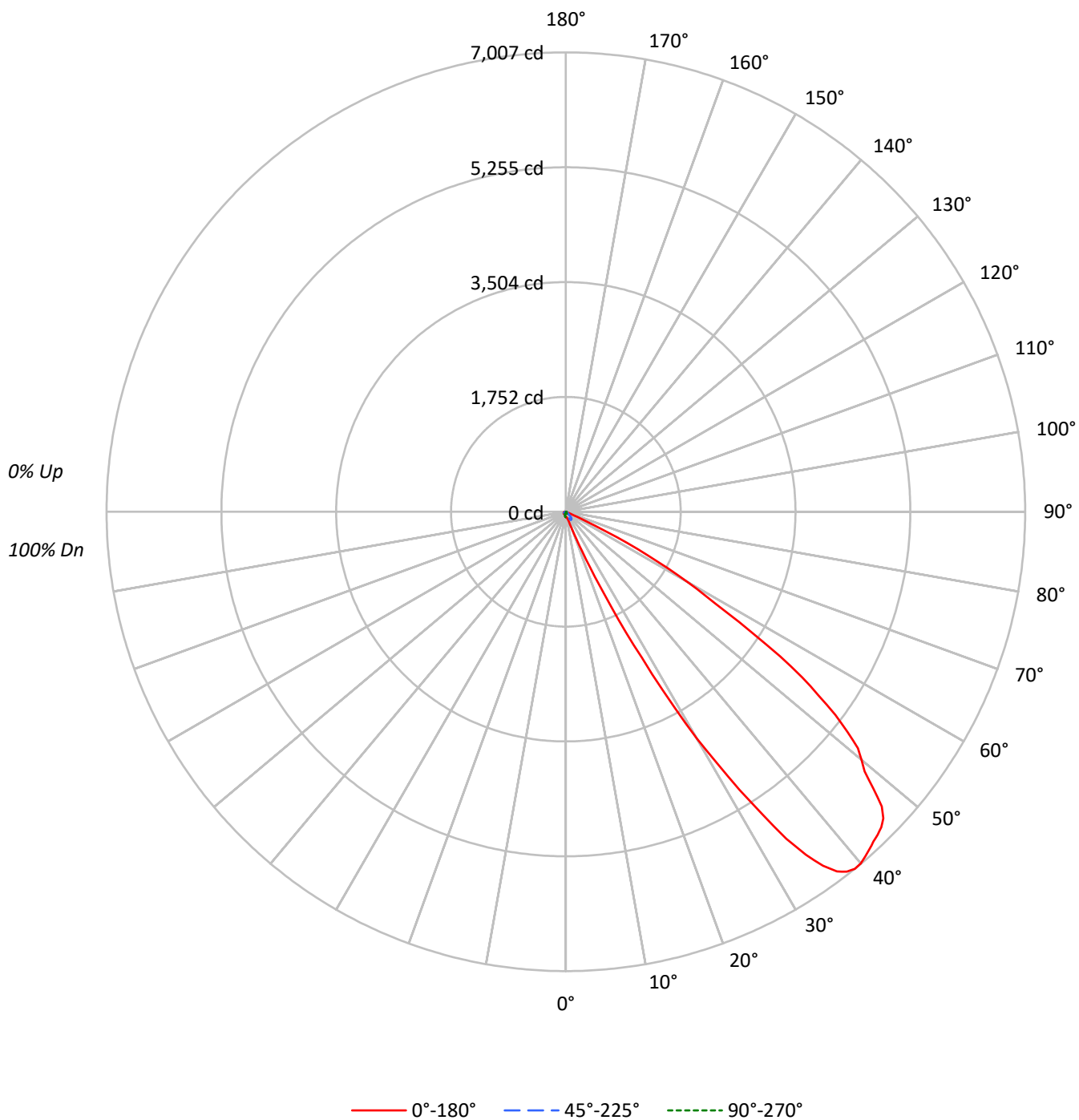
Lumens per Lamp: N/A
Luminaire Lumens: 1745.1 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1314700

CATALOG NUMBER: P3SQAS20R359735D010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1314700

CATALOG NUMBER: P3SQAS20R359735D010 E3SQCA451MB

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	110	106	102	99	107	104	100	97	100	97	94		96	93	91		92	90	89	87
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81	78	75	73
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	83	71	62	55	80	69	61	55	67	60	54		64	58	53		62	57	52	50
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55	49	44	42
6	68	54	45	38	66	53	44	38	51	43	38		50	43	37		48	42	37	35
7	62	48	38	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	57	42	33	27	55	41	33	27	40	32	27		39	32	26		38	31	26	24
9	52	38	29	23	50	37	29	23	36	28	23		35	28	22		34	27	22	20
10	48	34	25	19	46	33	25	19	32	25	19		31	24	19		30	24	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13829	13829	13829	13829	13829
5°	14971	14712	13623	12257	11981
10°	15704	14323	12119	10475	10475
15°	22466	14050	9824	8986	9271
20°	56302	15010	7789	7789	8669
25°	261325	19155	5986	7183	8076
30°	794428	25992	4693	6582	8153
35°	1342625	30128	3974	6286	7947
40°	1573812	29744	3192	6385	8498
45°	1657423	21092	2679	6917	9207
50°	1577631	12673	2545	7181	10128
55°	1321989	5195	2852	8047	11830
60°	740075	1102	3272	9231	13020
65°	127755	652	3219	10269	14752
70°	2367	806	3978	11128	16667
75°	2129	1065	5257	12576	18898
80°	1587	1587	6248	14083	21919
85°	0	3162	12449	15611	24898

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1669175 cd/sqm

TEST NUMBER: P1314700

CATALOG NUMBER: P3SQAS20R359735D010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.4
10°-20°	20.6	1.2
20°-30°	107.1	6.1
30°-40°	462.4	26.5
40°-50°	659.6	37.8
50°-60°	408.5	23.4
60°-70°	62.2	3.6
70°-80°	11.6	0.7
80°-90°	5.8	0.3
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°	134.9	7.7
0°-40°	597.3	34.2
0°-60°	1665.4	95.4
0°-90°	1745.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1745.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	80	80	80	80	80	
5°	87	85	79	71	69	8
15°	126	79	55	50	52	45
25°	1375	101	32	38	42	823
35°	6386	143	19	30	38	3834
45°	6805	87	11	28	38	5141
55°	4403	17	10	27	39	3750
65°	314	2	8	25	36	640
75°	3	2	8	19	28	3
85°	0	2	6	8	13	1
90°	0	0	0	0	0	

TEST NUMBER: P1314700

CATALOG NUMBER: P3SQAS20R359735D010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
2.5°	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	80.3	78.8
5°	86.6	86.6	85.1	85.1	85.1	85.1	85.1	85.1	81.9	78.8	74.0
7.5°	88.2	88.2	86.6	86.6	86.6	86.6	85.1	83.5	80.3	74.0	69.3
10°	89.8	89.8	89.8	89.8	88.2	86.6	85.1	81.9	77.2	69.3	64.6
12.5°	100.8	100.8	99.2	96.1	92.9	89.8	86.6	80.3	70.9	63.0	58.3
15°	126.0	124.4	121.3	116.6	110.3	102.4	96.1	78.8	64.6	55.1	52.0
17.5°	176.4	173.3	168.6	152.8	138.6	124.4	111.8	78.8	58.3	48.8	45.7
20°	307.2	308.7	275.7	237.9	206.4	171.7	140.2	81.9	52.0	42.5	41.0
22.5°	641.1	615.9	537.2	445.8	340.3	263.1	198.5	89.8	45.7	36.2	36.2
25°	1375.2	1279.1	1088.5	822.3	579.7	411.1	288.3	100.8	41.0	31.5	33.1
27.5°	2510.9	2424.3	2041.5	1537.4	1020.8	620.6	390.7	115.0	36.2	26.8	29.9
30°	3994.8	3755.4	3256.0	2520.4	1706.0	949.9	524.6	130.7	29.9	23.6	28.4
31°	4457.9	4347.7	3739.6	2915.8	1999.0	1127.9	581.3	135.5	28.4	23.6	26.8
32°	5007.7	4812.3	4267.3	3349.0	2296.7	1287.0	649.0	140.2	26.8	20.5	26.8
33°	5499.1	5310.1	4646.9	3730.2	2597.6	1468.1	721.5	141.8	23.6	20.5	25.2
34°	6015.8	5757.5	5100.6	4128.7	2906.3	1663.4	787.6	143.3	22.1	18.9	25.2
35°	6386.0	6127.7	5491.3	4443.7	3172.5	1836.7	863.2	143.3	20.5	18.9	23.6
36°	6672.7	6445.9	5828.4	4768.2	3437.2	1992.7	923.1	143.3	17.3	17.3	23.6
37°	6869.6	6653.8	6055.2	5047.1	3638.8	2131.3	976.6	143.3	15.8	17.3	23.6
38°	6965.7	6786.1	6274.2	5250.3	3834.1	2240.0	1019.2	140.2	14.2	15.8	22.1
39°	7006.6	6860.2	6408.1	5422.0	3980.6	2334.5	1050.7	137.0	12.6	15.8	22.1
40°	7000.3	6872.8	6483.7	5540.1	4098.8	2399.1	1068.0	132.3	11.0	14.2	22.1
41°	6964.1	6853.9	6523.1	5640.9	4169.6	2443.2	1072.7	127.6	9.5	14.2	20.5
42°	6923.2	6822.3	6535.7	5694.5	4215.3	2457.4	1060.1	121.3	9.5	12.6	20.5
43°	6880.6	6787.7	6535.7	5711.8	4226.4	2447.9	1039.7	110.3	7.9	12.6	20.5
44°	6846.0	6757.8	6515.2	5707.1	4202.7	2411.7	1001.9	97.7	6.3	12.6	20.5
45°	6805.0	6718.4	6488.4	5677.2	4157.0	2350.3	954.6	86.6	4.7	11.0	20.5
46°	6732.6	6664.8	6441.1	5615.7	4084.6	2265.2	894.7	78.8	3.2	11.0	18.9
47°	6592.4	6534.1	6349.8	5524.4	3988.5	2164.4	833.3	70.9	3.2	11.0	18.9
48°	6310.4	6308.8	6167.0	5354.2	3835.7	2038.4	768.7	63.0	3.2	11.0	18.9
49°	6037.9	6009.5	5833.1	5054.9	3616.7	1887.1	701.0	56.7	1.6	11.0	18.9
50°	5888.2	5826.8	5537.0	4702.1	3336.3	1677.6	628.5	47.3	1.6	9.5	18.9
51°	5732.3	5644.1	5302.2	4383.9	3002.4	1476.0	549.8	37.8	1.6	9.5	17.3
52°	5450.3	5366.8	4984.0	4079.9	2677.9	1269.6	474.1	31.5	1.6	9.5	18.9
53°	5146.3	5026.6	4610.7	3745.9	2392.8	1086.9	397.0	26.8	1.6	9.5	17.3
54°	4763.5	4710.0	4232.7	3336.3	2058.8	910.5	326.1	22.1	1.6	9.5	17.3
55°	4402.8	4324.0	3827.8	2917.3	1756.4	746.7	272.5	17.3	1.6	9.5	17.3
56°	3942.8	3824.7	3360.0	2533.0	1449.2	601.7	230.0	14.2	1.6	9.5	17.3
57°	3394.6	3268.6	2901.6	2106.1	1137.3	458.4	192.2	11.0	1.6	9.5	17.3
58°	2871.7	2763.0	2369.2	1625.6	856.9	318.2	159.1	7.9	1.6	7.9	17.3
59°	2481.0	2361.3	1970.6	1250.7	595.4	234.7	119.7	6.3	1.6	9.5	17.3
60°	2148.6	1994.2	1586.3	968.8	425.3	168.6	88.2	3.2	3.2	9.5	17.3
62.5°	1238.1	1093.2	757.7	393.8	174.9	86.6	42.5	1.6	3.2	9.5	17.3
65°	313.5	278.8	181.2	85.1	48.8	29.9	15.8	1.6	3.2	7.9	15.8



TEST NUMBER: P1314700

CATALOG NUMBER: P3SQAS20R359735D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	11.0	11.0	11.0	9.5	7.9	6.3	3.2	1.6	3.2	7.9	15.8
70°	4.7	4.7	4.7	3.2	3.2	1.6	1.6	1.6	3.2	7.9	14.2
72.5°	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	4.7	7.9	12.6
75°	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	4.7	7.9	12.6
77.5°	3.2	3.2	1.6	1.6	1.6	1.6	1.6	1.6	4.7	6.3	11.0
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.7	6.3	9.5
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.7	6.3	7.9
85°	0.0	0.0	0.0	0.0	0.0	1.6	0.0	1.6	4.7	6.3	6.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.7	6.3	4.7
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: P1314700

CATALOG NUMBER: P3SQAS20R359735D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	80.3	80.3	80.3
2.5°	75.6	75.6	75.6
5°	70.9	70.9	69.3
7.5°	66.2	64.6	64.6
10°	59.9	59.9	59.9
12.5°	55.1	55.1	55.1
15°	50.4	52.0	52.0
17.5°	45.7	48.8	48.8
20°	42.5	45.7	47.3
22.5°	39.4	42.5	44.1
25°	37.8	41.0	42.5
27.5°	34.7	39.4	42.5
30°	33.1	37.8	41.0
31°	33.1	37.8	39.4
32°	31.5	37.8	39.4
33°	31.5	37.8	39.4
34°	31.5	36.2	39.4
35°	29.9	36.2	37.8
36°	29.9	36.2	37.8
37°	29.9	36.2	39.4
38°	29.9	36.2	37.8
39°	28.4	36.2	37.8
40°	28.4	36.2	37.8
41°	28.4	36.2	37.8
42°	28.4	36.2	37.8
43°	28.4	36.2	37.8
44°	28.4	34.7	37.8
45°	28.4	34.7	37.8
46°	28.4	36.2	37.8
47°	28.4	36.2	39.4
48°	28.4	34.7	37.8
49°	26.8	34.7	37.8
50°	26.8	34.7	37.8
51°	26.8	36.2	39.4
52°	26.8	36.2	39.4
53°	26.8	36.2	39.4
54°	26.8	36.2	37.8
55°	26.8	36.2	39.4
56°	26.8	36.2	37.8
57°	26.8	36.2	37.8
58°	26.8	34.7	37.8
59°	26.8	34.7	37.8
60°	26.8	34.7	37.8
62.5°	25.2	34.7	37.8
65°	25.2	33.1	36.2



TEST NUMBER: P1314700

CATALOG NUMBER: P3SQAS20R359735D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	23.6	33.1	34.7
70°	22.1	31.5	33.1
72.5°	20.5	29.9	31.5
75°	18.9	26.8	28.4
77.5°	15.8	23.6	26.8
80°	14.2	20.5	22.1
82.5°	11.0	17.3	18.9
85°	7.9	12.6	12.6
87.5°	3.2	6.3	6.3
90°	0.0	0.0	0.0

(END OF REPORT)