

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: P1314726

Luminaire Tested: P3SQAS20R459735D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R459735D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

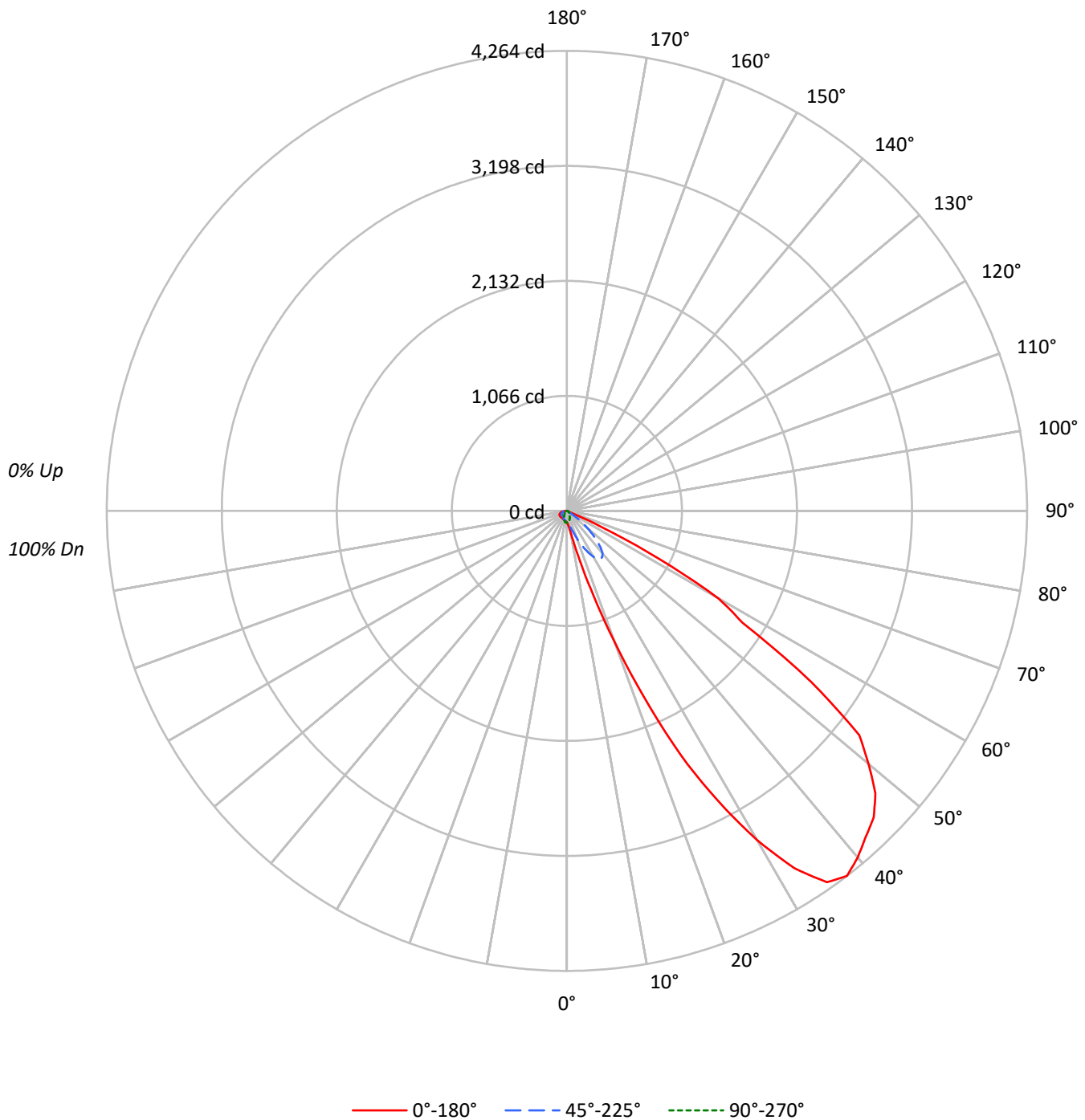
Lumens per Lamp: N/A
Luminaire Lumens: 1905.0 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1314726

CATALOG NUMBER: P3SQAS20R459735D010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1314726

CATALOG NUMBER: P3SQAS20R459735D010 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	50	30	10
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	99	97	94	96	93	91	92	90	88	86		
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	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43		
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36		
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31		
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	26		
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24	22		
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	18979	18979	18979	18979	18979
5°	22578	20953	18775	17409	17409
10°	36060	24501	17610	16509	16509
15°	89809	32842	15993	15441	15993
20°	236554	49045	13856	14717	15578
25°	474991	72685	11972	13758	15259
30°	700245	97345	9705	13463	15651
35°	883281	114163	8284	13245	16210
40°	942381	115355	7442	13804	17334
45°	979134	96230	6893	14955	18778
50°	977599	67063	6752	16022	21086
55°	830882	29786	7086	17956	23150
60°	558449	5959	7061	20047	26557
65°	148172	2567	7050	21802	30156
70°	3978	3172	7150	23767	34090
75°	3127	3127	7320	25153	38727
80°	3075	4661	7835	26580	43738
85°	3162	6126	12449	28060	43473

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 1004366 cd/sqm

TEST NUMBER: P1314726

CATALOG NUMBER: P3SQAS20R459735D010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.0	0.6
10°-20°	53.7	2.8
20°-30°	221.6	11.6
30°-40°	467.0	24.5
40°-50°	576.2	30.2
50°-60°	431.9	22.7
60°-70°	111.1	5.8
70°-80°	23.0	1.2
80°-90°	9.3	0.5
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°	286.3	15.0
0°-40°	753.3	39.5
0°-60°	1761.5	92.5
0°-90°	1905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1905.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	110	110	110	110	110	
5°	131	121	109	101	101	15
15°	504	184	90	87	90	184
25°	2500	382	63	72	80	1165
35°	4201	543	39	63	77	2560
45°	4020	395	28	61	77	3076
55°	2767	99	24	60	77	2389
65°	364	6	17	54	74	524
75°	5	5	11	38	58	6
85°	2	3	6	14	22	2
90°	0	0	0	0	0	

TEST NUMBER: P1314726

CATALOG NUMBER: P3SQAS20R459735D010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2
2.5°	116.5	116.5	116.5	116.5	116.5	116.5	116.5	114.9	113.3	110.2	107.0
5°	130.6	129.1	129.1	129.1	127.5	125.9	125.9	121.2	114.9	108.6	103.9
7.5°	154.3	154.3	152.7	149.5	148.0	144.8	141.7	129.1	114.9	105.5	99.2
10°	206.2	203.1	198.3	195.2	187.3	176.3	168.4	140.1	113.3	100.7	96.0
12.5°	308.5	314.8	299.1	283.3	261.3	240.8	215.6	159.0	113.3	96.0	91.3
15°	503.7	514.7	484.8	453.3	399.8	349.4	302.2	184.2	110.2	89.7	85.0
17.5°	823.2	837.4	787.0	713.0	629.6	528.9	442.3	218.8	107.0	83.4	80.3
20°	1290.7	1289.2	1191.6	1098.7	938.1	790.2	628.0	267.6	102.3	75.6	75.6
22.5°	1865.3	1871.6	1751.9	1585.1	1356.8	1119.2	861.0	324.3	96.0	69.3	70.8
25°	2499.6	2446.1	2304.4	2101.4	1810.2	1481.2	1141.2	382.5	89.7	63.0	66.1
27.5°	3028.5	2976.5	2814.4	2573.6	2260.3	1870.0	1426.1	440.7	81.9	56.7	61.4
30°	3521.2	3455.1	3259.9	2987.6	2614.5	2192.7	1693.7	489.5	72.4	48.8	56.7
32.5°	3927.3	3867.5	3645.5	3329.1	2923.0	2469.7	1920.3	527.3	63.0	44.1	53.5
35°	4201.2	4139.8	3935.1	3587.3	3145.0	2671.2	2104.5	543.0	55.1	39.4	51.9
37.5°	4264.1	4231.1	4084.7	3758.8	3297.6	2800.2	2222.6	538.3	45.6	36.2	48.8
40°	4191.7	4199.6	4130.3	3859.6	3379.5	2855.3	2271.4	513.1	37.8	33.1	47.2
42.5°	4098.8	4119.3	4114.6	3900.5	3414.1	2858.5	2250.9	462.8	29.9	29.9	45.6
45°	4020.1	4040.6	4068.9	3883.2	3390.5	2817.6	2186.4	395.1	22.0	28.3	45.6
47.5°	3876.9	3898.9	3939.9	3744.7	3270.9	2712.1	2069.9	321.1	15.7	26.8	44.1
50°	3648.7	3659.7	3648.7	3429.9	3041.1	2542.1	1881.0	250.3	11.0	25.2	44.1
52.5°	3414.1	3392.1	3300.8	3023.8	2675.9	2272.9	1643.3	177.9	7.9	23.6	42.5
55°	2767.2	2732.6	2664.9	2494.9	2296.5	1942.4	1328.5	99.2	7.9	23.6	40.9
57.5°	1928.2	1947.1	1970.7	1936.1	1844.8	1530.0	1009.0	44.1	7.9	22.0	40.9
60°	1621.3	1605.5	1607.1	1585.1	1434.0	1116.0	694.2	17.3	7.9	20.5	39.4
62.5°	968.0	979.1	999.5	1004.2	854.7	623.3	363.6	7.9	7.9	18.9	37.8
65°	363.6	380.9	333.7	289.6	229.8	168.4	85.0	6.3	9.4	17.3	34.6
67.5°	11.0	12.6	15.7	14.2	14.2	12.6	9.4	6.3	9.4	15.7	33.1
70°	7.9	7.9	7.9	7.9	7.9	6.3	6.3	6.3	7.9	14.2	29.9
72.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	7.9	12.6	26.8
75°	4.7	6.3	4.7	4.7	4.7	4.7	4.7	4.7	7.9	11.0	22.0
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	6.3	9.4	18.9
80°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.7	6.3	7.9	15.7
82.5°	3.1	3.1	3.1	1.6	3.1	3.1	3.1	3.1	6.3	6.3	12.6
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1	4.7	6.3	7.9
87.5°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	3.1	4.7	4.7	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: P1314726

CATALOG NUMBER: P3SQAS20R459735D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	110.2	110.2	110.2
2.5°	103.9	103.9	103.9
5°	100.7	100.7	100.7
7.5°	97.6	97.6	97.6
10°	94.4	94.4	94.4
12.5°	91.3	91.3	92.9
15°	86.6	89.7	89.7
17.5°	83.4	86.6	88.1
20°	80.3	83.4	85.0
22.5°	75.6	80.3	83.4
25°	72.4	78.7	80.3
27.5°	69.3	77.1	80.3
30°	67.7	75.6	78.7
32.5°	64.5	74.0	77.1
35°	63.0	74.0	77.1
37.5°	63.0	72.4	77.1
40°	61.4	72.4	77.1
42.5°	61.4	72.4	77.1
45°	61.4	72.4	77.1
47.5°	59.8	72.4	78.7
50°	59.8	74.0	78.7
52.5°	59.8	74.0	78.7
55°	59.8	74.0	77.1
57.5°	58.2	72.4	77.1
60°	58.2	72.4	77.1
62.5°	55.1	70.8	75.6
65°	53.5	69.3	74.0
67.5°	50.4	67.7	70.8
70°	47.2	63.0	67.7
72.5°	42.5	59.8	64.5
75°	37.8	55.1	58.2
77.5°	33.1	48.8	51.9
80°	26.8	40.9	44.1
82.5°	20.5	31.5	33.1
85°	14.2	20.5	22.0
87.5°	6.3	9.4	11.0
90°	0.0	0.0	0.0

(END OF REPORT)