

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: P1313756

Luminaire Tested: P3SQAS20R459730D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313756
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: P3SQAS20R459730D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

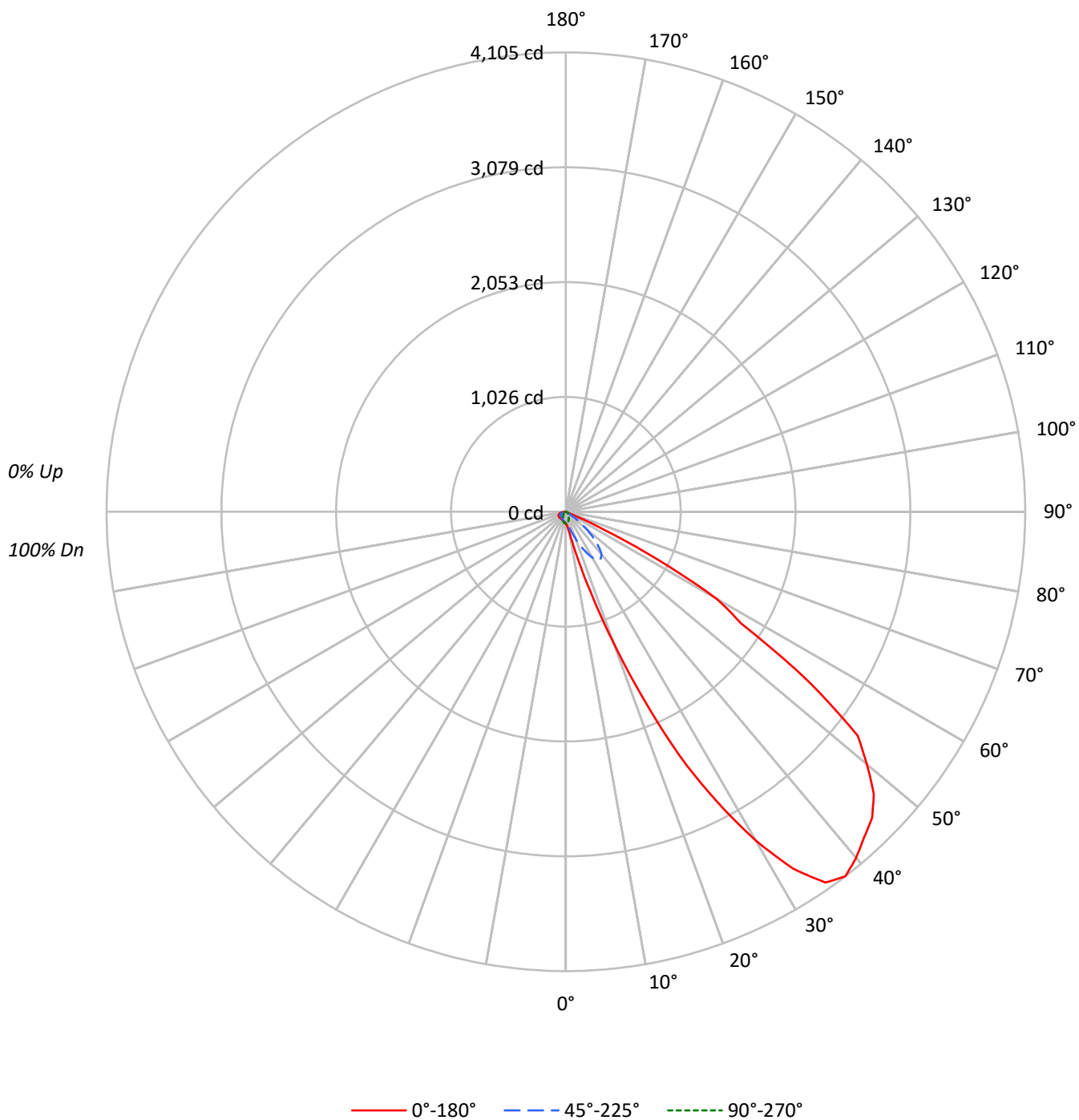
Lumens per Lamp: N/A
Luminaire Lumens: 1834.0 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1313756

CATALOG NUMBER: P3SQAS20R459730D010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1313756

CATALOG NUMBER: P3SQAS20R459730D010 E3SQCA451MW

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	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°	18273	18273	18273	18273	18273
5°	21748	20175	18083	16769	16769
10°	34714	23591	16963	15897	15897
15°	86457	31612	15405	14852	15405
20°	227738	47212	13324	14167	14992
25°	457280	69968	11516	13245	14689
30°	674134	93725	9347	12966	15074
35°	850357	109916	7968	12741	15621
40°	907264	111061	7149	13287	16704
45°	942649	92650	6649	14394	18096
50°	941161	64545	6484	15433	20309
55°	799925	28675	6816	17295	22309
60°	537645	5752	6786	19323	25592
65°	142670	2486	6805	20987	29015
70°	3827	3072	6848	22911	32831
75°	2994	2994	7053	24221	37330
80°	2975	4463	7538	25588	42052
85°	2964	5928	12054	26874	41892

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 966918 cd/sqm

TEST NUMBER: P1313756

CATALOG NUMBER: P3SQAS20R459730D010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	0.6
10°-20°	51.7	2.8
20°-30°	213.4	11.6
30°-40°	449.6	24.5
40°-50°	554.7	30.2
50°-60°	415.8	22.7
60°-70°	107.0	5.8
70°-80°	22.2	1.2
80°-90°	9.0	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°	275.6	15.0
0°-40°	725.3	39.5
0°-60°	1695.8	92.5
0°-90°	1834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1834.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	106	106	106	106	106	
5°	126	117	105	97	97	14
15°	485	177	86	83	86	177
25°	2406	368	61	70	77	1121
35°	4045	523	38	61	74	2465
45°	3870	380	27	59	74	2962
55°	2664	96	23	58	74	2300
65°	350	6	17	52	71	505
75°	4	4	11	36	56	5
85°	2	3	6	14	21	2
90°	0	0	0	0	0	

TEST NUMBER: P1313756

CATALOG NUMBER: P3SQAS20R459730D010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1
2.5°	112.1	112.1	112.1	112.1	112.1	112.1	112.1	110.6	109.1	106.1	103.0
5°	125.8	124.3	124.3	124.3	122.7	121.2	121.2	116.7	110.6	104.6	100.0
7.5°	148.5	148.5	147.0	144.0	142.4	139.4	136.4	124.3	110.6	101.5	95.5
10°	198.5	195.5	190.9	187.9	180.3	169.7	162.1	134.9	109.1	97.0	92.4
12.5°	297.0	303.1	287.9	272.8	251.6	231.9	207.6	153.1	109.1	92.4	87.9
15°	484.9	495.5	466.7	436.4	384.9	336.4	291.0	177.3	106.1	86.4	81.8
17.5°	792.5	806.2	757.7	686.5	606.2	509.2	425.8	210.6	103.0	80.3	77.3
20°	1242.6	1241.1	1147.2	1057.7	903.2	760.7	604.6	257.6	98.5	72.7	72.7
22.5°	1795.7	1801.8	1686.6	1526.0	1306.3	1077.4	828.9	312.2	92.4	66.7	68.2
25°	2406.4	2354.9	2218.5	2023.0	1742.7	1426.0	1098.7	368.2	86.4	60.6	63.6
27.5°	2915.6	2865.6	2709.5	2477.7	2176.1	1800.3	1372.9	424.3	78.8	54.6	59.1
30°	3389.9	3326.3	3138.4	2876.2	2517.1	2110.9	1630.6	471.3	69.7	47.0	54.6
32.5°	3780.9	3723.3	3509.6	3205.0	2814.1	2377.6	1848.8	507.7	60.6	42.4	51.5
35°	4044.6	3985.5	3788.5	3453.6	3027.7	2571.6	2026.1	522.8	53.0	37.9	50.0
37.5°	4105.2	4073.4	3932.4	3618.8	3174.7	2695.9	2139.7	518.3	43.9	34.9	47.0
40°	4035.5	4043.1	3976.4	3715.7	3253.5	2748.9	2186.7	494.0	36.4	31.8	45.5
42.5°	3946.1	3965.8	3961.2	3755.1	3286.9	2751.9	2167.0	445.5	28.8	28.8	43.9
45°	3870.3	3890.0	3917.3	3738.5	3264.1	2712.5	2104.9	380.4	21.2	27.3	43.9
47.5°	3732.4	3753.6	3793.0	3605.1	3149.0	2611.0	1992.7	309.1	15.2	25.8	42.4
50°	3512.7	3523.3	3512.7	3302.0	2927.7	2447.4	1810.9	240.9	10.6	24.2	42.4
52.5°	3286.9	3265.7	3177.8	2911.1	2576.2	2188.2	1582.1	171.2	7.6	22.7	40.9
55°	2664.1	2630.7	2565.6	2401.9	2211.0	1870.0	1279.0	95.5	7.6	22.7	39.4
57.5°	1856.4	1874.5	1897.3	1863.9	1776.0	1473.0	971.4	42.4	7.6	21.2	39.4
60°	1560.9	1545.7	1547.2	1526.0	1380.5	1074.4	668.3	16.7	7.6	19.7	37.9
62.5°	932.0	942.6	962.3	966.8	822.9	600.1	350.1	7.6	7.6	18.2	36.4
65°	350.1	366.7	321.3	278.8	221.2	162.1	81.8	6.1	9.1	16.7	33.3
67.5°	10.6	12.1	15.2	13.6	13.6	12.1	9.1	6.1	9.1	15.2	31.8
70°	7.6	7.6	7.6	7.6	7.6	6.1	6.1	6.1	7.6	13.6	28.8
72.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.6	12.1	25.8
75°	4.5	6.1	4.5	4.5	4.5	4.5	4.5	4.5	7.6	10.6	21.2
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.1	9.1	18.2
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	6.1	7.6	15.2
82.5°	3.0	3.0	3.0	1.5	3.0	3.0	3.0	3.0	6.1	6.1	12.1
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	4.5	6.1	7.6
87.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	3.0	4.5	4.5	4.5
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: P1313756

CATALOG NUMBER: P3SQAS20R459730D010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	106.1	106.1	106.1
2.5°	100.0	100.0	100.0
5°	97.0	97.0	97.0
7.5°	94.0	94.0	94.0
10°	90.9	90.9	90.9
12.5°	87.9	87.9	89.4
15°	83.3	86.4	86.4
17.5°	80.3	83.3	84.9
20°	77.3	80.3	81.8
22.5°	72.7	77.3	80.3
25°	69.7	75.8	77.3
27.5°	66.7	74.3	77.3
30°	65.2	72.7	75.8
32.5°	62.1	71.2	74.3
35°	60.6	71.2	74.3
37.5°	60.6	69.7	74.3
40°	59.1	69.7	74.3
42.5°	59.1	69.7	74.3
45°	59.1	69.7	74.3
47.5°	57.6	69.7	75.8
50°	57.6	71.2	75.8
52.5°	57.6	71.2	75.8
55°	57.6	71.2	74.3
57.5°	56.1	69.7	74.3
60°	56.1	69.7	74.3
62.5°	53.0	68.2	72.7
65°	51.5	66.7	71.2
67.5°	48.5	65.2	68.2
70°	45.5	60.6	65.2
72.5°	40.9	57.6	62.1
75°	36.4	53.0	56.1
77.5°	31.8	47.0	50.0
80°	25.8	39.4	42.4
82.5°	19.7	30.3	31.8
85°	13.6	19.7	21.2
87.5°	6.1	9.1	10.6
90°	0.0	0.0	0.0

(END OF REPORT)