

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: P1316575

Luminaire Tested: P3SQAS20R459827D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316575
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: P3SQAS20R459827D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

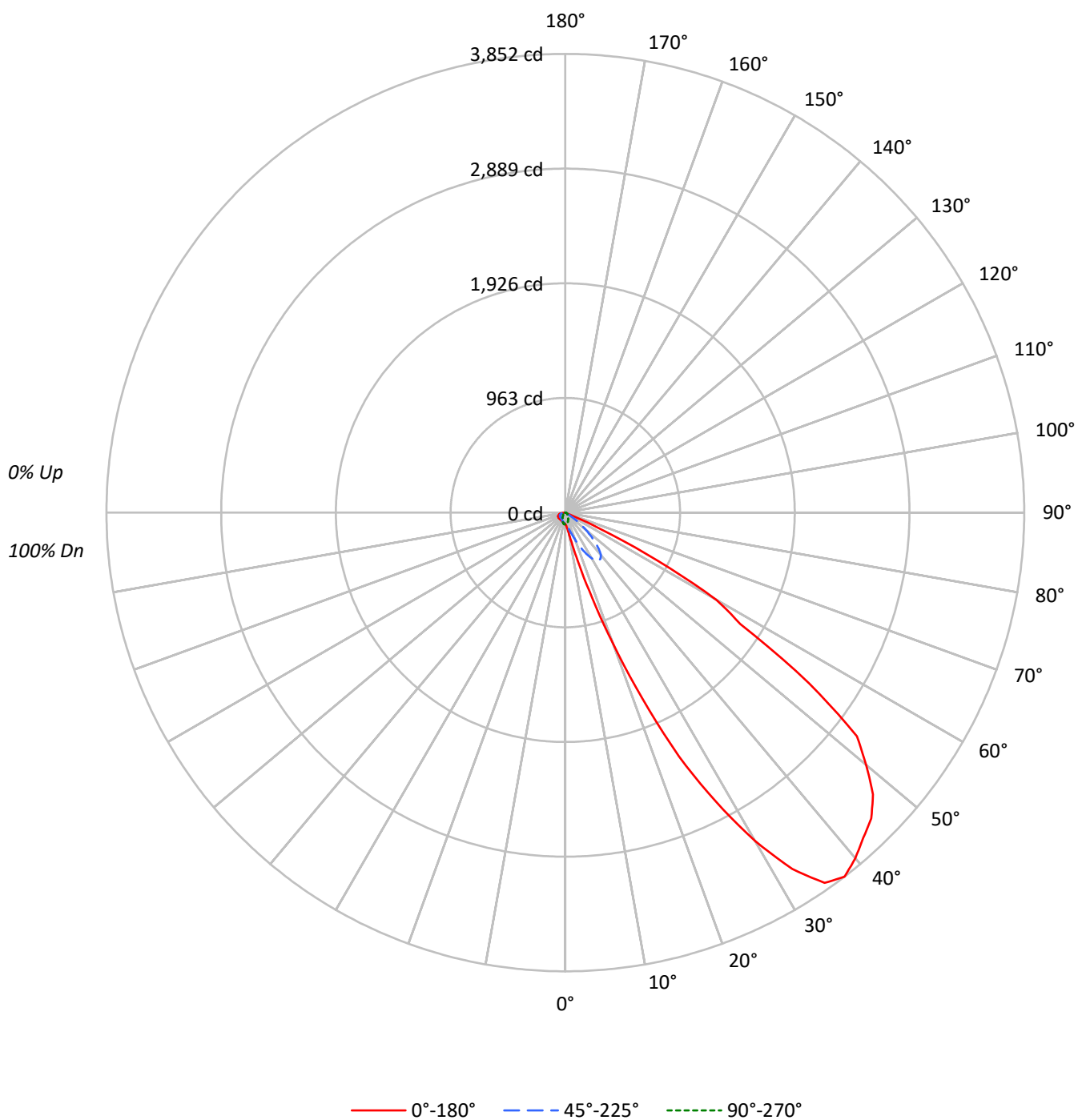
Lumens per Lamp: N/A
Luminaire Lumens: 1721.0 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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: P1316575

CATALOG NUMBER: P3SQAS20R459827D010 E3SQCA451MMS

Luminous Intensity Polar Plot



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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°	17136	17136	17136	17136	17136
5°	20400	18930	16960	15732	15732
10°	32580	22140	15914	14917	14917
15°	81126	29669	14460	13943	14460
20°	213718	44298	12518	13287	14076
25°	429118	65673	10813	12428	13777
30°	632611	87938	8770	12151	14139
35°	797964	103146	7485	11963	14654
40°	851351	104227	6722	12478	15670
45°	884560	86926	6235	13518	16976
50°	883154	60579	6109	14468	19050
55°	750623	26903	6396	16214	20928
60°	504509	5373	6372	18118	24008
65°	133868	2323	6357	19683	27222
70°	3575	2870	6445	21501	30767
75°	2861	2861	6654	22691	35001
80°	2777	4265	7042	24001	39473
85°	2766	5533	11263	25293	39323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 907343 cd/sqm

TEST NUMBER: P1316575

CATALOG NUMBER: P3SQAS20R459827D010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.9	0.6
10°-20°	48.5	2.8
20°-30°	200.2	11.6
30°-40°	421.9	24.5
40°-50°	520.6	30.2
50°-60°	390.2	22.7
60°-70°	100.4	5.8
70°-80°	20.8	1.2
80°-90°	8.4	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°	258.7	15.0
0°-40°	680.6	39.5
0°-60°	1591.3	92.5
0°-90°	1721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1721.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	100	100	100	100	100	
5°	118	110	98	91	91	13
15°	455	166	81	78	81	166
25°	2258	346	57	65	72	1052
35°	3795	491	36	57	70	2313
45°	3632	357	26	56	70	2779
55°	2500	90	21	54	70	2159
65°	328	6	16	48	67	474
75°	4	4	10	34	53	5
85°	1	3	6	13	20	2
90°	0	0	0	0	0	

TEST NUMBER: P1316575

CATALOG NUMBER: P3SQAS20R459827D010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
2.5°	105.2	105.2	105.2	105.2	105.2	105.2	105.2	103.8	102.4	99.5	96.7
5°	118.0	116.6	116.6	116.6	115.2	113.8	113.8	109.5	103.8	98.1	93.9
7.5°	139.4	139.4	137.9	135.1	133.7	130.8	128.0	116.6	103.8	95.3	89.6
10°	186.3	183.4	179.2	176.3	169.2	159.3	152.2	126.6	102.4	91.0	86.7
12.5°	278.7	284.4	270.2	256.0	236.1	217.6	194.8	143.6	102.4	86.7	82.5
15°	455.0	465.0	438.0	409.5	361.2	315.7	273.0	166.4	99.5	81.1	76.8
17.5°	743.7	756.5	711.0	644.2	568.8	477.8	399.6	197.7	96.7	75.4	72.5
20°	1166.1	1164.6	1076.5	992.6	847.5	713.9	567.4	241.7	92.4	68.3	68.3
22.5°	1685.1	1690.8	1582.7	1432.0	1225.8	1011.1	777.8	292.9	86.7	62.6	64.0
25°	2258.2	2209.8	2081.8	1898.4	1635.3	1338.1	1031.0	345.6	81.1	56.9	59.7
27.5°	2736.0	2689.0	2542.6	2325.0	2042.0	1689.4	1288.4	398.2	73.9	51.2	55.5
30°	3181.1	3121.3	2945.0	2699.0	2362.0	1980.9	1530.1	442.2	65.4	44.1	51.2
32.5°	3547.9	3493.9	3293.4	3007.6	2640.7	2231.2	1734.9	476.4	56.9	39.8	48.3
35°	3795.4	3739.9	3555.1	3240.8	2841.2	2413.2	1901.2	490.6	49.8	35.6	46.9
37.5°	3852.3	3822.4	3690.1	3395.8	2979.1	2529.8	2007.9	486.3	41.2	32.7	44.1
40°	3786.8	3794.0	3731.4	3486.8	3053.1	2579.5	2052.0	463.6	34.1	29.9	42.7
42.5°	3702.9	3721.4	3717.2	3523.8	3084.4	2582.4	2033.5	418.1	27.0	27.0	41.2
45°	3631.8	3650.3	3675.9	3508.1	3063.0	2545.4	1975.2	356.9	19.9	25.6	41.2
47.5°	3502.4	3522.3	3559.3	3383.0	2955.0	2450.1	1870.0	290.1	14.2	24.2	39.8
50°	3296.2	3306.2	3296.2	3098.6	2747.3	2296.6	1699.3	226.1	10.0	22.8	39.8
52.5°	3084.4	3064.5	2982.0	2731.7	2417.4	2053.4	1484.6	160.7	7.1	21.3	38.4
55°	2499.9	2468.6	2407.5	2253.9	2074.7	1754.8	1200.2	89.6	7.1	21.3	37.0
57.5°	1742.0	1759.0	1780.4	1749.1	1666.6	1382.2	911.5	39.8	7.1	19.9	37.0
60°	1464.7	1450.5	1451.9	1432.0	1295.5	1008.2	627.1	15.6	7.1	18.5	35.6
62.5°	874.5	884.5	903.0	907.2	772.2	563.1	328.5	7.1	7.1	17.1	34.1
65°	328.5	344.1	301.5	261.7	207.6	152.2	76.8	5.7	8.5	15.6	31.3
67.5°	10.0	11.4	14.2	12.8	12.8	11.4	8.5	5.7	8.5	14.2	29.9
70°	7.1	7.1	7.1	7.1	7.1	5.7	5.7	5.7	7.1	12.8	27.0
72.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	7.1	11.4	24.2
75°	4.3	5.7	4.3	4.3	4.3	4.3	4.3	4.3	7.1	10.0	19.9
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.7	8.5	17.1
80°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3	5.7	7.1	14.2
82.5°	2.8	2.8	2.8	1.4	2.8	2.8	2.8	2.8	5.7	5.7	11.4
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.3	5.7	7.1
87.5°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	2.8	4.3	4.3	4.3
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: P1316575

CATALOG NUMBER: P3SQAS20R459827D010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	99.5	99.5	99.5
2.5°	93.9	93.9	93.9
5°	91.0	91.0	91.0
7.5°	88.2	88.2	88.2
10°	85.3	85.3	85.3
12.5°	82.5	82.5	83.9
15°	78.2	81.1	81.1
17.5°	75.4	78.2	79.6
20°	72.5	75.4	76.8
22.5°	68.3	72.5	75.4
25°	65.4	71.1	72.5
27.5°	62.6	69.7	72.5
30°	61.1	68.3	71.1
32.5°	58.3	66.8	69.7
35°	56.9	66.8	69.7
37.5°	56.9	65.4	69.7
40°	55.5	65.4	69.7
42.5°	55.5	65.4	69.7
45°	55.5	65.4	69.7
47.5°	54.0	65.4	71.1
50°	54.0	66.8	71.1
52.5°	54.0	66.8	71.1
55°	54.0	66.8	69.7
57.5°	52.6	65.4	69.7
60°	52.6	65.4	69.7
62.5°	49.8	64.0	68.3
65°	48.3	62.6	66.8
67.5°	45.5	61.1	64.0
70°	42.7	56.9	61.1
72.5°	38.4	54.0	58.3
75°	34.1	49.8	52.6
77.5°	29.9	44.1	46.9
80°	24.2	37.0	39.8
82.5°	18.5	28.4	29.9
85°	12.8	18.5	19.9
87.5°	5.7	8.5	10.0
90°	0.0	0.0	0.0

(END OF REPORT)