

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: P1307251

Luminaire Tested: P3SQAS20R559027D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R559027D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

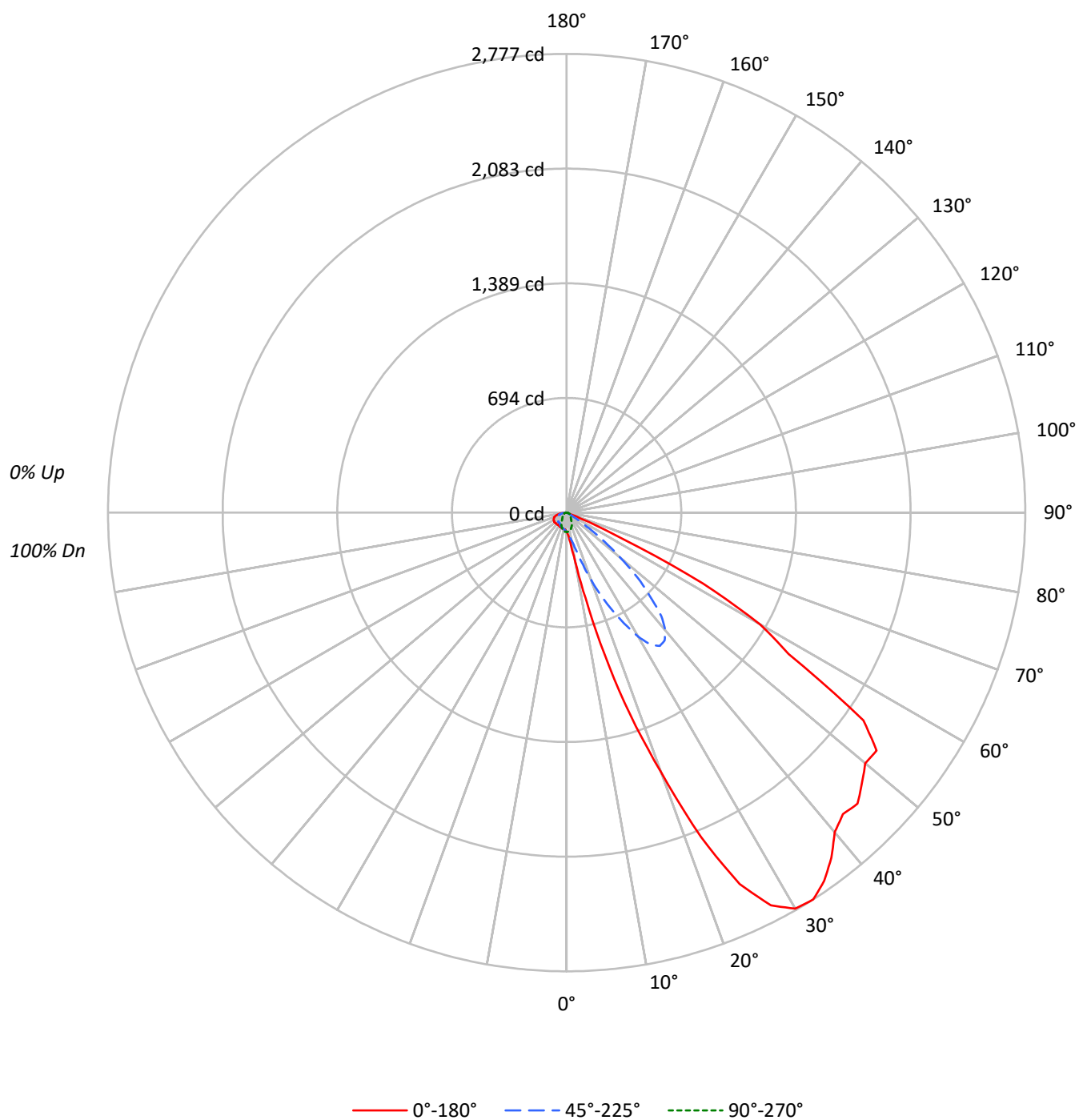
Lumens per Lamp: N/A
Luminaire Lumens: 1786.0 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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	95	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	67	77	71	65	74	69	64	72	67	63	61		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32		
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27		
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19840	19840	19840	19840	19840
5°	25379	23183	19916	18550	18014
10°	51607	29537	19324	17663	17663
15°	158400	45306	18008	17170	17723
20°	306272	79248	16202	16770	17649
25°	471399	123251	14100	16190	17691
30°	550440	172277	11614	16009	18196
35°	571972	207028	9629	15916	18901
40°	567650	208971	8880	16682	20571
45°	606877	172952	8452	18072	22286
50°	632504	114165	8467	19452	24944
55°	658623	49753	8527	21319	27474
60°	465277	11401	8680	23388	30966
65°	151758	3871	8354	25062	34720
70°	4784	3978	8762	27040	39730
75°	4192	4192	7320	28347	44117
80°	3174	4661	7835	28167	46912
85°	3162	6323	9287	28060	46832

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 669216 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.2	0.7
10°-20°	75.8	4.2
20°-30°	254.2	14.2
30°-40°	417.5	23.4
40°-50°	465.6	26.1
50°-60°	391.9	21.9
60°-70°	133.0	7.4
70°-80°	26.0	1.5
80°-90°	9.8	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°	342.3	19.2
0°-40°	759.7	42.5
0°-60°	1617.3	90.6
0°-90°	1786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1786.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	115	115	115	115	115	
5°	147	134	115	107	104	18
15°	888	254	101	96	99	282
25°	2481	649	74	85	93	1115
35°	2720	985	46	76	90	1689
45°	2492	710	35	74	92	1903
55°	2194	166	28	71	92	1786
65°	372	10	20	62	85	504
75°	6	6	11	43	66	7
85°	2	3	5	14	24	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	115.2	115.2	115.2	115.2	115.2	115.2	115.2	115.2	115.2	115.2	115.2
2.5°	126.2	126.2	126.2	126.2	126.2	126.2	124.7	119.9	116.8	112.0	110.5
5°	146.8	146.8	146.8	145.2	145.2	142.0	134.1	123.1	115.2	108.9	107.3
7.5°	189.4	187.8	184.6	183.1	178.3	176.7	148.3	126.2	113.6	105.7	104.2
10°	295.1	291.9	287.2	269.8	254.1	243.0	168.9	127.8	110.5	102.6	101.0
12.5°	531.8	525.5	501.8	465.5	421.3	399.2	202.0	129.4	105.7	99.4	99.4
15°	888.4	880.5	836.4	785.9	705.4	661.2	254.1	127.8	101.0	94.7	96.3
17.5°	1282.9	1260.9	1215.1	1148.8	1039.9	987.9	331.4	124.7	94.7	91.5	94.7
20°	1671.1	1664.8	1589.1	1499.1	1365.0	1295.6	432.4	119.9	88.4	86.8	91.5
22.5°	2125.6	2098.8	2018.3	1922.1	1737.4	1645.9	541.3	113.6	82.1	82.1	88.4
25°	2480.7	2449.1	2386.0	2274.0	2098.8	2001.0	648.6	105.7	74.2	77.3	85.2
27.5°	2679.5	2643.2	2595.9	2499.6	2363.9	2277.1	755.9	96.3	66.3	72.6	82.1
30°	2767.9	2758.4	2723.7	2652.7	2528.0	2450.7	866.3	85.2	58.4	67.9	80.5
32.5°	2777.3	2782.1	2767.9	2722.1	2627.4	2561.2	948.4	75.7	52.1	64.7	77.3
35°	2720.5	2737.9	2747.4	2728.4	2666.9	2613.2	984.7	64.7	45.8	61.5	75.7
37.5°	2632.2	2663.7	2695.3	2700.0	2662.1	2627.4	975.2	55.2	42.6	60.0	75.7
40°	2524.9	2553.3	2618.0	2659.0	2646.4	2621.1	929.5	45.8	39.5	56.8	74.2
42.5°	2475.9	2482.3	2551.7	2621.1	2618.0	2597.5	849.0	36.3	36.3	56.8	74.2
45°	2491.7	2463.3	2509.1	2589.6	2584.8	2558.0	710.1	28.4	34.7	55.2	74.2
47.5°	2425.4	2386.0	2463.3	2558.0	2540.6	2501.2	587.0	20.5	33.1	53.7	72.6
50°	2360.7	2354.4	2414.4	2461.7	2438.1	2416.0	426.1	15.8	31.6	52.1	72.6
52.5°	2365.5	2354.4	2360.7	2359.2	2311.8	2288.2	291.9	12.6	30.0	50.5	72.6
55°	2193.5	2158.8	2125.6	2135.1	2138.2	2122.5	165.7	11.0	28.4	50.5	71.0
57.5°	1593.8	1584.4	1620.6	1723.2	1803.7	1813.2	80.5	11.0	26.8	48.9	69.4
60°	1350.8	1344.5	1346.1	1376.0	1418.7	1391.8	33.1	11.0	25.2	47.3	67.9
62.5°	931.0	992.6	1017.8	1087.3	1058.9	1021.0	12.6	12.6	23.7	44.2	66.3
65°	372.4	370.8	405.6	438.7	429.2	400.8	9.5	11.0	20.5	41.0	61.5
67.5°	86.8	78.9	67.9	58.4	48.9	39.5	9.5	11.0	18.9	37.9	58.4
70°	9.5	9.5	9.5	9.5	9.5	7.9	7.9	11.0	17.4	34.7	53.7
72.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	9.5	14.2	30.0	48.9
75°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	7.9	11.0	25.2	42.6
77.5°	4.7	4.7	4.7	6.3	4.7	6.3	6.3	7.9	9.5	20.5	36.3
80°	3.2	3.2	4.7	4.7	4.7	4.7	4.7	6.3	7.9	17.4	28.4
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	4.7	4.7	6.3	12.6	20.5
85°	1.6	1.6	1.6	1.6	1.6	3.2	3.2	4.7	4.7	9.5	14.2
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	4.7	4.7	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	115.2	115.2
2.5°	108.9	108.9
5°	105.7	104.2
7.5°	102.6	102.6
10°	101.0	101.0
12.5°	99.4	101.0
15°	99.4	99.4
17.5°	96.3	97.8
20°	94.7	96.3
22.5°	93.1	94.7
25°	91.5	93.1
27.5°	89.9	91.5
30°	88.4	91.5
32.5°	86.8	89.9
35°	86.8	89.9
37.5°	86.8	91.5
40°	86.8	91.5
42.5°	86.8	91.5
45°	86.8	91.5
47.5°	86.8	91.5
50°	86.8	93.1
52.5°	86.8	93.1
55°	86.8	91.5
57.5°	85.2	91.5
60°	85.2	89.9
62.5°	83.6	88.4
65°	80.5	85.2
67.5°	77.3	83.6
70°	72.6	78.9
72.5°	67.9	72.6
75°	61.5	66.3
77.5°	53.7	56.8
80°	42.6	47.3
82.5°	33.1	36.3
85°	22.1	23.7
87.5°	9.5	11.0
90°	0.0	0.0

(END OF REPORT)