

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: P1308223

Luminaire Tested: P3SQAS17R559030DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308223
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: P3SQAS17R559030DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

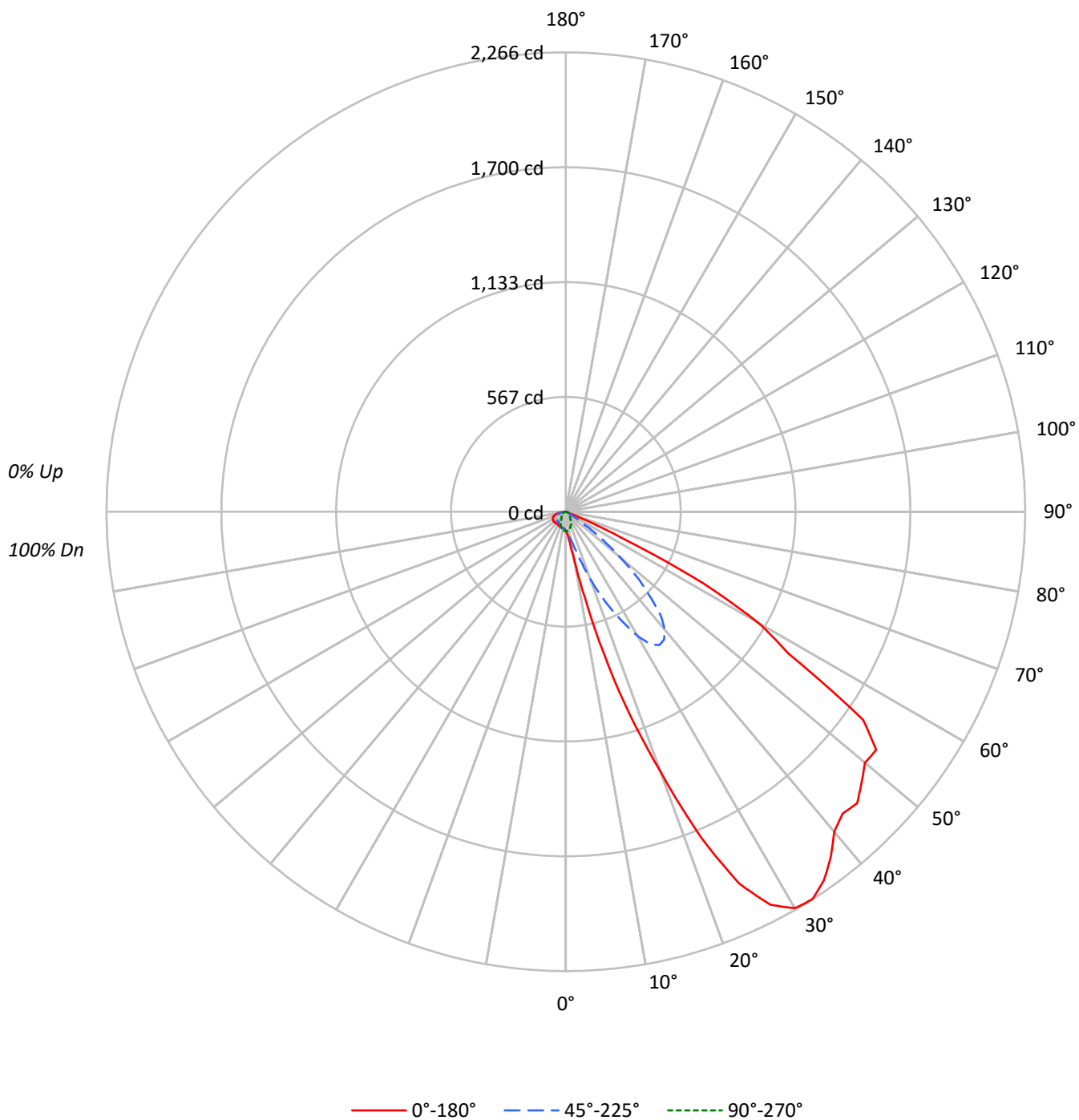
Lumens per Lamp: N/A
Luminaire Lumens: 1457.0 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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	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		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°	16189	16189	16189	16189	16189
5°	20694	18913	16251	15127	14695
10°	42093	24081	15757	14410	14410
15°	129230	36961	14692	13996	14460
20°	249859	64641	13214	13691	14387
25°	384557	100543	11497	13207	14442
30°	449038	140558	9466	13065	14855
35°	466618	168890	7842	12993	15432
40°	463086	170459	7239	13602	16794
45°	495084	141094	6893	14735	18194
50°	516008	93133	6886	15862	20363
55°	537287	40595	6966	17385	22429
60°	379579	9300	7096	19082	25282
65°	123803	3138	6805	20457	28322
70°	3877	3223	7150	22055	32428
75°	3394	3394	5989	23157	35999
80°	2579	3868	6347	23010	38283
85°	2569	5138	7707	22922	38137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 545925 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	0.7
10°-20°	61.9	4.2
20°-30°	207.4	14.2
30°-40°	340.6	23.4
40°-50°	379.9	26.1
50°-60°	319.7	21.9
60°-70°	108.5	7.4
70°-80°	21.2	1.5
80°-90°	8.0	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°	279.2	19.2
0°-40°	619.8	42.5
0°-60°	1319.4	90.6
0°-90°	1457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1457.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	94	94	94	94	94	
5°	120	109	94	88	85	15
15°	725	207	82	78	81	230
25°	2024	529	60	70	76	909
35°	2219	803	37	62	73	1378
45°	2033	579	28	60	75	1552
55°	1789	135	23	58	75	1457
65°	304	8	17	50	70	411
75°	5	5	9	35	54	5
85°	1	3	4	12	19	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°	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
2.5°	103.0	103.0	103.0	103.0	103.0	103.0	101.7	97.8	95.3	91.4	90.1
5°	119.7	119.7	119.7	118.4	118.4	115.9	109.4	100.4	94.0	88.8	87.5
7.5°	154.5	153.2	150.6	149.3	145.5	144.2	121.0	103.0	92.7	86.3	85.0
10°	240.7	238.2	234.3	220.1	207.3	198.3	137.7	104.3	90.1	83.7	82.4
12.5°	433.8	428.7	409.4	379.8	343.7	325.7	164.8	105.6	86.3	81.1	81.1
15°	724.8	718.3	682.3	641.1	575.4	539.4	207.3	104.3	82.4	77.2	78.5
17.5°	1046.6	1028.6	991.3	937.2	848.4	805.9	270.3	101.7	77.2	74.7	77.2
20°	1363.3	1358.2	1296.4	1223.0	1113.6	1056.9	352.7	97.8	72.1	70.8	74.7
22.5°	1734.1	1712.2	1646.5	1568.0	1417.4	1342.7	441.6	92.7	66.9	66.9	72.1
25°	2023.7	1998.0	1946.5	1855.1	1712.2	1632.4	529.1	86.3	60.5	63.1	69.5
27.5°	2185.9	2156.3	2117.7	2039.2	1928.4	1857.6	616.6	78.5	54.1	59.2	66.9
30°	2258.0	2250.3	2222.0	2164.0	2062.3	1999.2	706.8	69.5	47.6	55.4	65.7
32.5°	2265.7	2269.6	2258.0	2220.7	2143.4	2089.4	773.7	61.8	42.5	52.8	63.1
35°	2219.4	2233.5	2241.3	2225.8	2175.6	2131.8	803.3	52.8	37.3	50.2	61.8
37.5°	2147.3	2173.0	2198.8	2202.7	2171.8	2143.4	795.6	45.1	34.8	48.9	61.8
40°	2059.8	2082.9	2135.7	2169.2	2158.9	2138.3	758.2	37.3	32.2	46.3	60.5
42.5°	2019.8	2025.0	2081.6	2138.3	2135.7	2119.0	692.6	29.6	29.6	46.3	60.5
45°	2032.7	2009.5	2046.9	2112.5	2108.7	2086.8	579.3	23.2	28.3	45.1	60.5
47.5°	1978.7	1946.5	2009.5	2086.8	2072.6	2040.4	478.9	16.7	27.0	43.8	59.2
50°	1925.9	1920.7	1969.6	2008.3	1989.0	1970.9	347.6	12.9	25.7	42.5	59.2
52.5°	1929.7	1920.7	1925.9	1924.6	1886.0	1866.7	238.2	10.3	24.5	41.2	59.2
55°	1789.4	1761.1	1734.1	1741.8	1744.4	1731.5	135.2	9.0	23.2	41.2	57.9
57.5°	1300.2	1292.5	1322.1	1405.8	1471.4	1479.2	65.7	9.0	21.9	39.9	56.6
60°	1102.0	1096.8	1098.1	1122.6	1157.3	1135.4	27.0	9.0	20.6	38.6	55.4
62.5°	759.5	809.7	830.3	887.0	863.8	832.9	10.3	10.3	19.3	36.0	54.1
65°	303.8	302.5	330.8	357.9	350.2	327.0	7.7	9.0	16.7	33.5	50.2
67.5°	70.8	64.4	55.4	47.6	39.9	32.2	7.7	9.0	15.4	30.9	47.6
70°	7.7	7.7	7.7	7.7	7.7	6.4	6.4	9.0	14.2	28.3	43.8
72.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	7.7	11.6	24.5	39.9
75°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.4	9.0	20.6	34.8
77.5°	3.9	3.9	3.9	5.1	3.9	5.1	5.1	6.4	7.7	16.7	29.6
80°	2.6	2.6	3.9	3.9	3.9	3.9	3.9	5.1	6.4	14.2	23.2
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9	5.1	10.3	16.7
85°	1.3	1.3	1.3	1.3	1.3	2.6	2.6	3.9	3.9	7.7	11.6
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	3.9	3.9	5.1
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°	94.0	94.0
2.5°	88.8	88.8
5°	86.3	85.0
7.5°	83.7	83.7
10°	82.4	82.4
12.5°	81.1	82.4
15°	81.1	81.1
17.5°	78.5	79.8
20°	77.2	78.5
22.5°	76.0	77.2
25°	74.7	76.0
27.5°	73.4	74.7
30°	72.1	74.7
32.5°	70.8	73.4
35°	70.8	73.4
37.5°	70.8	74.7
40°	70.8	74.7
42.5°	70.8	74.7
45°	70.8	74.7
47.5°	70.8	74.7
50°	70.8	76.0
52.5°	70.8	76.0
55°	70.8	74.7
57.5°	69.5	74.7
60°	69.5	73.4
62.5°	68.2	72.1
65°	65.7	69.5
67.5°	63.1	68.2
70°	59.2	64.4
72.5°	55.4	59.2
75°	50.2	54.1
77.5°	43.8	46.3
80°	34.8	38.6
82.5°	27.0	29.6
85°	18.0	19.3
87.5°	7.7	9.0
90°	0.0	0.0

(END OF REPORT)