

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: P1308205

Luminaire Tested: P3SQAS17R459030DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308205
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: P3SQAS17R459030DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

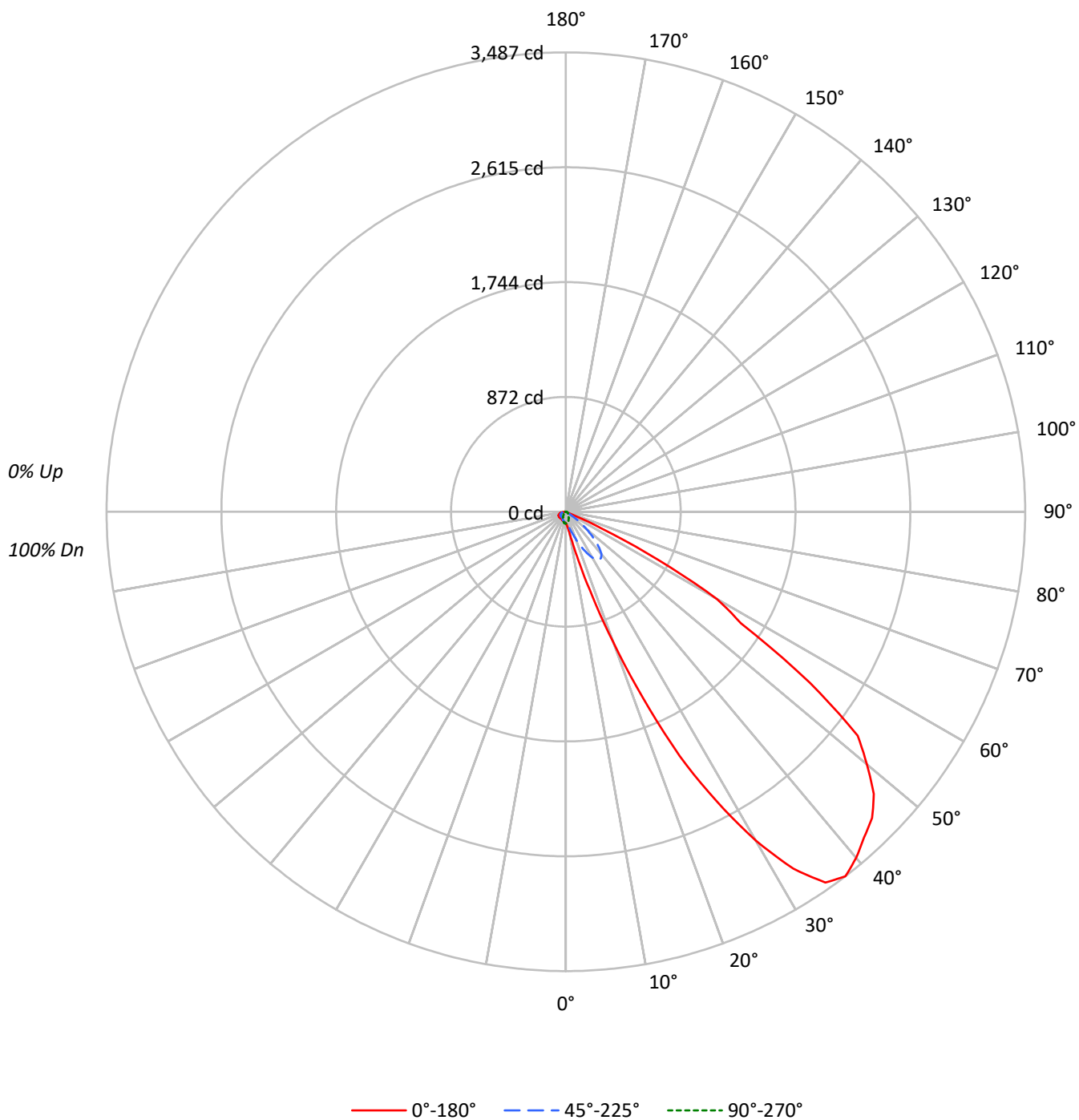
Lumens per Lamp: N/A
Luminaire Lumens: 1558.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	107	104	100	97	99	97	94		96	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44
8	58	44	35	29	56	43	35	29	42	34	29		40	33	28		39
9	53	39	31	25	52	39	30	25	38	30	25		36	29	25		35
10	49	36	27	22	48	35	27	22	34	27	21		33	26	21		32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15517	15517	15517	15517	15517
5°	18464	17132	15352	14245	14245
10°	29485	20041	14410	13501	13501
15°	73441	26852	13087	12623	13087
20°	193466	40101	11326	12041	12738
25°	388471	59440	9786	11250	12485
30°	572693	79626	7935	11017	12807
35°	722381	93370	6770	10828	13266
40°	770730	94357	6070	11286	14186
45°	800800	78694	5651	12227	15369
50°	799506	54845	5519	13102	17255
55°	679521	24351	5795	14683	18946
60°	456734	4891	5752	16396	21734
65°	121195	2078	5787	17849	24655
70°	3223	2568	5841	19437	27896
75°	2595	2595	5989	20561	31674
80°	2579	3868	6347	21720	35704
85°	2569	5138	10078	22922	35569

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 821409 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.6
10°-20°	43.9	2.8
20°-30°	181.2	11.6
30°-40°	382.0	24.5
40°-50°	471.3	30.2
50°-60°	353.2	22.7
60°-70°	90.9	5.8
70°-80°	18.8	1.2
80°-90°	7.6	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°	234.2	15.0
0°-40°	616.1	39.5
0°-60°	1440.6	92.5
0°-90°	1558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1558.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	90	90	90	90	90	
5°	107	99	89	82	82	12
15°	412	151	73	71	73	151
25°	2044	313	52	59	66	953
35°	3436	444	32	52	63	2094
45°	3288	323	23	50	63	2516
55°	2263	81	19	49	63	1954
65°	297	5	14	44	60	429
75°	4	4	9	31	48	5
85°	1	3	5	12	18	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
2.5°	95.3	95.3	95.3	95.3	95.3	95.3	95.3	94.0	92.7	90.1	87.5
5°	106.8	105.6	105.6	105.6	104.3	103.0	103.0	99.1	94.0	88.8	85.0
7.5°	126.2	126.2	124.9	122.3	121.0	118.4	115.9	105.6	94.0	86.3	81.1
10°	168.6	166.1	162.2	159.6	153.2	144.2	137.7	114.6	92.7	82.4	78.5
12.5°	252.3	257.5	244.6	231.7	213.7	197.0	176.4	130.0	92.7	78.5	74.7
15°	411.9	421.0	396.5	370.8	327.0	285.8	247.2	150.6	90.1	73.4	69.5
17.5°	673.3	684.9	643.7	583.2	514.9	432.5	361.7	178.9	87.5	68.2	65.7
20°	1055.6	1054.3	974.5	898.6	767.3	646.2	513.6	218.8	83.7	61.8	61.8
22.5°	1525.5	1530.6	1432.8	1296.3	1109.7	915.3	704.2	265.2	78.5	56.6	57.9
25°	2044.3	2000.5	1884.7	1718.6	1480.4	1211.4	933.3	312.8	73.4	51.5	54.1
27.5°	2476.8	2434.4	2301.8	2104.8	1848.6	1529.4	1166.3	360.5	66.9	46.3	50.2
30°	2879.8	2825.7	2666.1	2443.4	2138.3	1793.3	1385.2	400.4	59.2	39.9	46.3
32.5°	3211.9	3163.0	2981.5	2722.7	2390.6	2019.8	1570.6	431.3	51.5	36.0	43.8
35°	3435.9	3385.7	3218.3	2933.8	2572.1	2184.6	1721.2	444.1	45.1	32.2	42.5
37.5°	3487.4	3460.4	3340.6	3074.2	2697.0	2290.2	1817.7	440.3	37.3	29.6	39.9
40°	3428.2	3434.6	3378.0	3156.6	2763.9	2335.2	1857.6	419.7	30.9	27.0	38.6
42.5°	3352.2	3369.0	3365.1	3190.0	2792.2	2337.8	1840.9	378.5	24.5	24.5	37.3
45°	3287.9	3304.6	3327.8	3175.9	2772.9	2304.3	1788.1	323.1	18.0	23.2	37.3
47.5°	3170.7	3188.7	3222.2	3062.6	2675.1	2218.1	1692.8	262.6	12.9	21.9	36.0
50°	2984.0	2993.1	2984.0	2805.1	2487.1	2079.1	1538.4	204.7	9.0	20.6	36.0
52.5°	2792.2	2774.2	2699.5	2473.0	2188.5	1858.9	1344.0	145.5	6.4	19.3	34.8
55°	2263.1	2234.8	2179.5	2040.4	1878.2	1588.6	1086.5	81.1	6.4	19.3	33.5
57.5°	1577.0	1592.4	1611.7	1583.4	1508.8	1251.3	825.2	36.0	6.4	18.0	33.5
60°	1326.0	1313.1	1314.4	1296.3	1172.8	912.7	567.7	14.2	6.4	16.7	32.2
62.5°	791.7	800.7	817.5	821.3	699.0	509.8	297.4	6.4	6.4	15.4	30.9
65°	297.4	311.5	272.9	236.9	188.0	137.7	69.5	5.1	7.7	14.2	28.3
67.5°	9.0	10.3	12.9	11.6	11.6	10.3	7.7	5.1	7.7	12.9	27.0
70°	6.4	6.4	6.4	6.4	6.4	5.1	5.1	5.1	6.4	11.6	24.5
72.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.4	10.3	21.9
75°	3.9	5.1	3.9	3.9	3.9	3.9	3.9	3.9	6.4	9.0	18.0
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.1	7.7	15.4
80°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9	5.1	6.4	12.9
82.5°	2.6	2.6	2.6	1.3	2.6	2.6	2.6	2.6	5.1	5.1	10.3
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	3.9	5.1	6.4
87.5°	0.0	0.0	0.0	0.0	1.3	1.3	1.3	2.6	3.9	3.9	3.9
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):

	135°	157.5°	180°
0°	90.1	90.1	90.1
2.5°	85.0	85.0	85.0
5°	82.4	82.4	82.4
7.5°	79.8	79.8	79.8
10°	77.2	77.2	77.2
12.5°	74.7	74.7	76.0
15°	70.8	73.4	73.4
17.5°	68.2	70.8	72.1
20°	65.7	68.2	69.5
22.5°	61.8	65.7	68.2
25°	59.2	64.4	65.7
27.5°	56.6	63.1	65.7
30°	55.4	61.8	64.4
32.5°	52.8	60.5	63.1
35°	51.5	60.5	63.1
37.5°	51.5	59.2	63.1
40°	50.2	59.2	63.1
42.5°	50.2	59.2	63.1
45°	50.2	59.2	63.1
47.5°	48.9	59.2	64.4
50°	48.9	60.5	64.4
52.5°	48.9	60.5	64.4
55°	48.9	60.5	63.1
57.5°	47.6	59.2	63.1
60°	47.6	59.2	63.1
62.5°	45.1	57.9	61.8
65°	43.8	56.6	60.5
67.5°	41.2	55.4	57.9
70°	38.6	51.5	55.4
72.5°	34.8	48.9	52.8
75°	30.9	45.1	47.6
77.5°	27.0	39.9	42.5
80°	21.9	33.5	36.0
82.5°	16.7	25.7	27.0
85°	11.6	16.7	18.0
87.5°	5.1	7.7	9.0
90°	0.0	0.0	0.0

(END OF REPORT)