

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: P1309487

Luminaire Tested: P3SQAS20R559035D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309487
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: P3SQAS20R559035D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

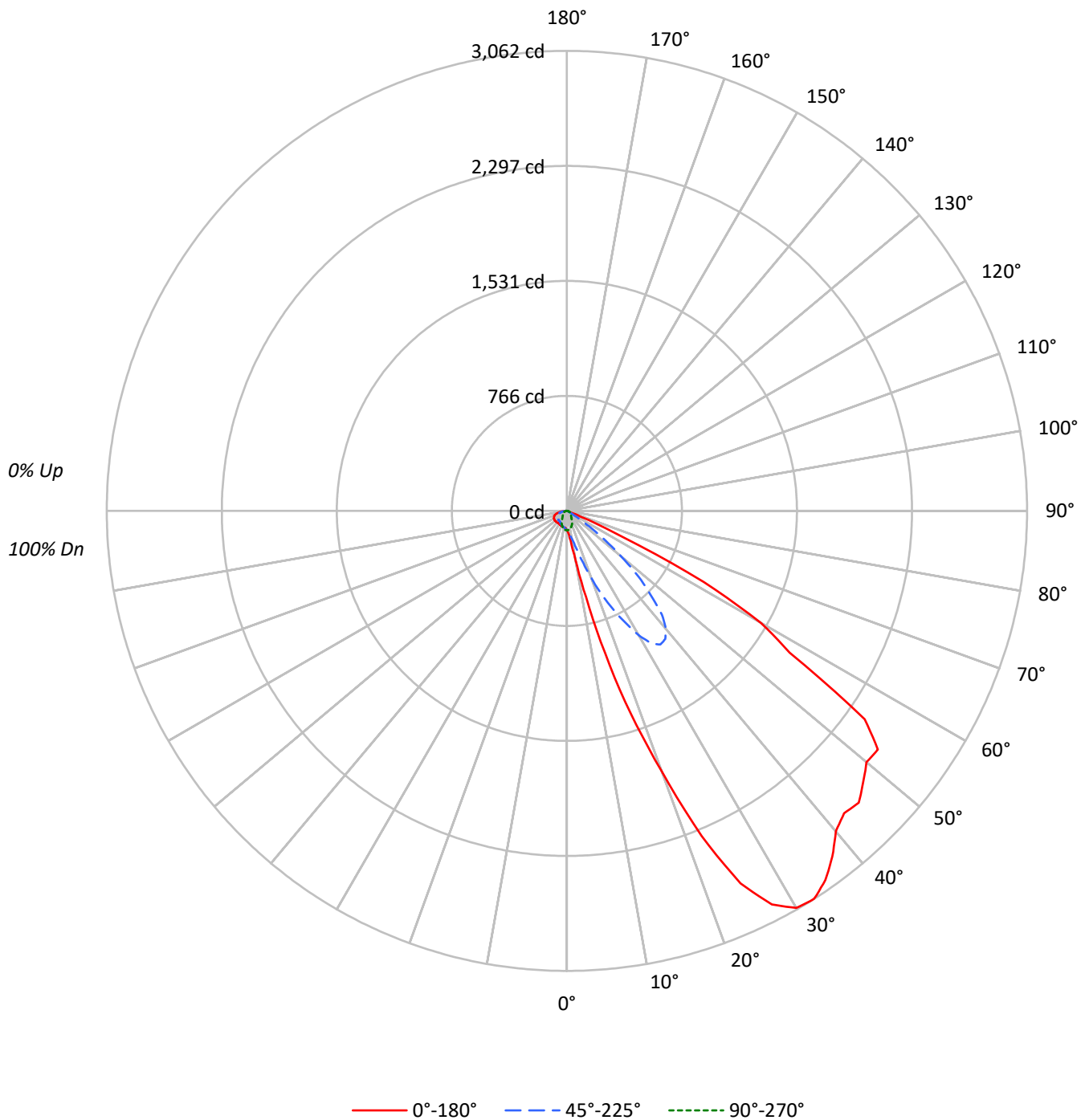
Lumens per Lamp: N/A
Luminaire Lumens: 1969.0 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	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
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	21872	21872	21872	21872	21872
5°	27972	25569	21956	20452	19847
10°	56888	32563	21300	19464	19464
15°	174643	49941	19845	18917	19541
20°	337667	87367	17851	18492	19446
25°	519704	135869	15544	17844	19497
30°	606838	189937	12807	17639	20066
35°	630588	228242	10617	17555	20856
40°	625811	230374	9780	18390	22684
45°	669058	190683	9328	19923	24575
50°	697317	125847	9324	21434	27490
55°	726091	54858	9398	23510	30296
60°	512948	12572	9576	25765	34169
65°	167325	4238	9210	27629	38266
70°	5237	4381	9618	29810	43808
75°	4658	4658	8118	31275	48642
80°	3471	5157	8629	31043	51771
85°	3359	6916	10275	31024	51574

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 737792 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.5	0.7
10°-20°	83.6	4.2
20°-30°	280.2	14.2
30°-40°	460.2	23.4
40°-50°	513.3	26.1
50°-60°	432.1	21.9
60°-70°	146.6	7.4
70°-80°	28.7	1.5
80°-90°	10.7	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°	377.3	19.2
0°-40°	837.6	42.5
0°-60°	1783.0	90.6
0°-90°	1969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1969.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	127	127	127	127	127	
5°	162	148	127	118	115	20
15°	980	280	111	106	110	311
25°	2735	715	82	94	103	1229
35°	2999	1086	50	84	99	1862
45°	2747	783	38	82	101	2098
55°	2418	183	31	78	101	1969
65°	411	10	23	68	94	556
75°	7	7	12	47	73	7
85°	2	4	5	16	26	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°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0
2.5°	139.2	139.2	139.2	139.2	139.2	139.2	137.4	132.2	128.7	123.5	121.8
5°	161.8	161.8	161.8	160.1	160.1	156.6	147.9	135.7	127.0	120.0	118.3
7.5°	208.8	207.0	203.5	201.8	196.6	194.8	163.5	139.2	125.3	116.6	114.8
10°	325.3	321.8	316.6	297.5	280.1	267.9	186.2	140.9	121.8	113.1	111.3
12.5°	586.3	579.3	553.2	513.2	464.5	440.2	222.7	142.7	116.6	109.6	109.6
15°	979.5	970.8	922.1	866.4	777.7	728.9	280.1	140.9	111.3	104.4	106.1
17.5°	1414.4	1390.0	1339.6	1266.5	1146.5	1089.1	365.3	137.4	104.4	100.9	104.4
20°	1842.4	1835.4	1751.9	1652.7	1504.9	1428.3	476.7	132.2	97.4	95.7	100.9
22.5°	2343.4	2313.8	2225.1	2119.0	1915.4	1814.5	596.7	125.3	90.5	90.5	97.4
25°	2734.9	2700.1	2630.5	2506.9	2313.8	2206.0	715.0	116.6	81.8	85.2	93.9
27.5°	2954.1	2914.0	2861.9	2755.7	2606.1	2510.4	833.3	106.1	73.1	80.0	90.5
30°	3051.5	3041.0	3002.8	2924.5	2787.0	2701.8	955.1	93.9	64.4	74.8	88.7
32.5°	3061.9	3067.1	3051.5	3001.0	2896.6	2823.6	1045.6	83.5	57.4	71.3	85.2
35°	2999.3	3018.4	3028.9	3008.0	2940.1	2881.0	1085.6	71.3	50.5	67.8	83.5
37.5°	2901.9	2936.7	2971.5	2976.7	2934.9	2896.6	1075.2	60.9	47.0	66.1	83.5
40°	2783.6	2814.9	2886.2	2931.4	2917.5	2889.7	1024.7	50.5	43.5	62.6	81.8
42.5°	2729.6	2736.6	2813.1	2889.7	2886.2	2863.6	936.0	40.0	40.0	62.6	81.8
45°	2747.0	2715.7	2766.2	2854.9	2849.7	2820.1	782.9	31.3	38.3	60.9	81.8
47.5°	2674.0	2630.5	2715.7	2820.1	2801.0	2757.5	647.2	22.6	36.5	59.2	80.0
50°	2602.6	2595.7	2661.8	2714.0	2687.9	2663.5	469.7	17.4	34.8	57.4	80.0
52.5°	2607.9	2595.7	2602.6	2600.9	2548.7	2522.6	321.8	13.9	33.1	55.7	80.0
55°	2418.2	2379.9	2343.4	2353.9	2357.3	2339.9	182.7	12.2	31.3	55.7	78.3
57.5°	1757.1	1746.7	1786.7	1899.8	1988.5	1998.9	88.7	12.2	29.6	53.9	76.5
60°	1489.2	1482.2	1484.0	1517.0	1564.0	1534.4	36.5	12.2	27.8	52.2	74.8
62.5°	1026.4	1094.3	1122.1	1198.7	1167.4	1125.6	13.9	13.9	26.1	48.7	73.1
65°	410.6	408.8	447.1	483.6	473.2	441.9	10.4	12.2	22.6	45.2	67.8
67.5°	95.7	87.0	74.8	64.4	53.9	43.5	10.4	12.2	20.9	41.8	64.4
70°	10.4	10.4	10.4	10.4	10.4	8.7	8.7	12.2	19.1	38.3	59.2
72.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	10.4	15.7	33.1	53.9
75°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.7	12.2	27.8	47.0
77.5°	5.2	5.2	5.2	7.0	5.2	7.0	7.0	8.7	10.4	22.6	40.0
80°	3.5	3.5	5.2	5.2	5.2	5.2	5.2	7.0	8.7	19.1	31.3
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	5.2	5.2	7.0	13.9	22.6
85°	1.7	1.7	1.7	1.7	1.7	3.5	3.5	5.2	5.2	10.4	15.7
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5	5.2	5.2	7.0
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°	127.0	127.0
2.5°	120.0	120.0
5°	116.6	114.8
7.5°	113.1	113.1
10°	111.3	111.3
12.5°	109.6	111.3
15°	109.6	109.6
17.5°	106.1	107.9
20°	104.4	106.1
22.5°	102.6	104.4
25°	100.9	102.6
27.5°	99.2	100.9
30°	97.4	100.9
32.5°	95.7	99.2
35°	95.7	99.2
37.5°	95.7	100.9
40°	95.7	100.9
42.5°	95.7	100.9
45°	95.7	100.9
47.5°	95.7	100.9
50°	95.7	102.6
52.5°	95.7	102.6
55°	95.7	100.9
57.5°	93.9	100.9
60°	93.9	99.2
62.5°	92.2	97.4
65°	88.7	93.9
67.5°	85.2	92.2
70°	80.0	87.0
72.5°	74.8	80.0
75°	67.8	73.1
77.5°	59.2	62.6
80°	47.0	52.2
82.5°	36.5	40.0
85°	24.4	26.1
87.5°	10.4	12.2
90°	0.0	0.0

(END OF REPORT)