

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: P1309039

Luminaire Tested: P3SQAS09R709035DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R709035DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

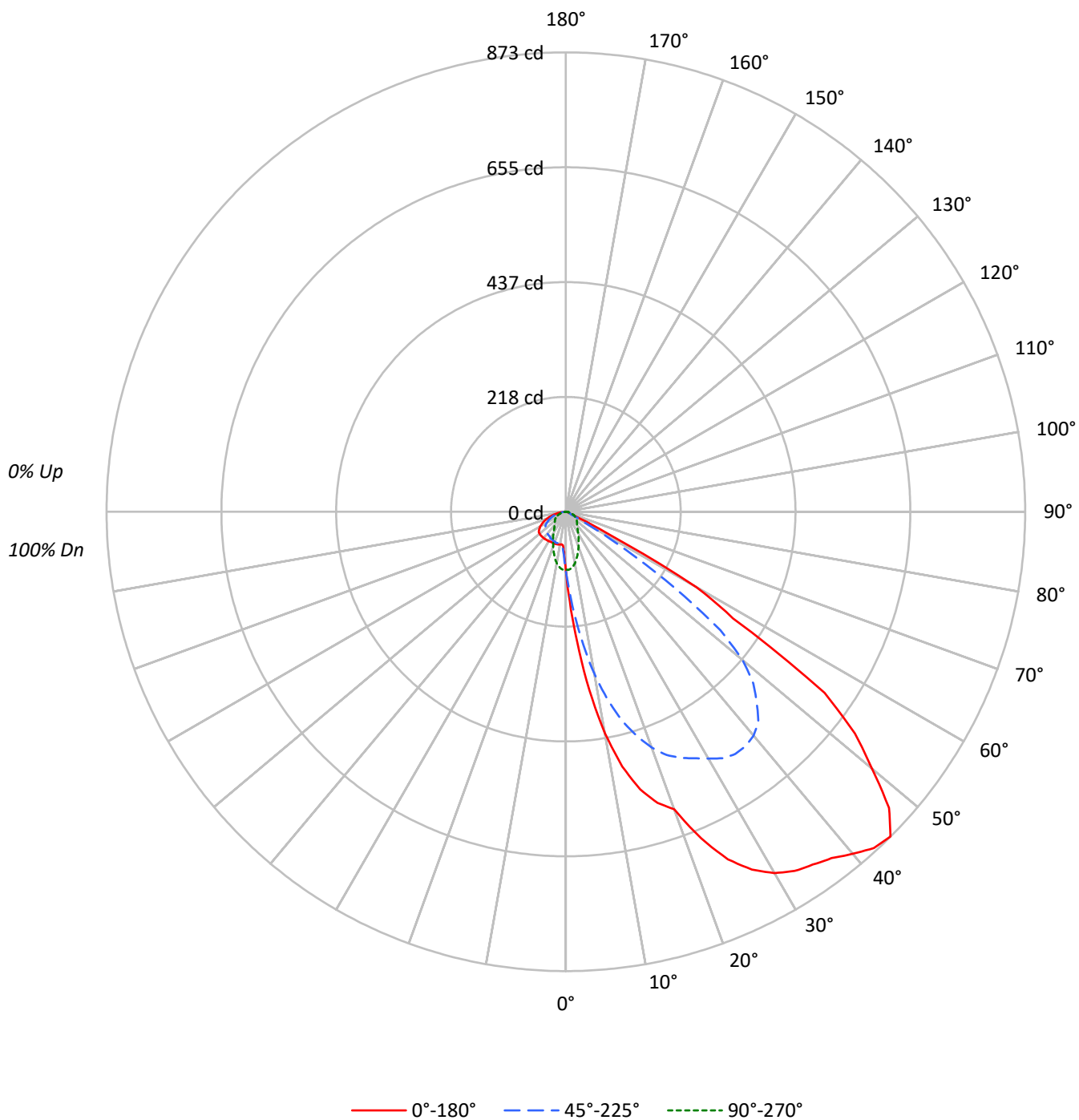
Lumens per Lamp: N/A
Luminaire Lumens: 754.0 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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: P1309039

CATALOG NUMBER: P3SQAS09R709035DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1309039

CATALOG NUMBER: P3SQAS09R709035DE010 E3SQCA451MMS

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	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	18910	18910	18910	18910	18910
5°	43047	34472	18723	11842	11047
10°	74586	54720	17366	10790	11052
15°	97369	73102	15155	11001	11393
20°	110295	87404	12958	11161	11858
25°	138510	98073	10870	11288	12143
30°	157681	107706	9267	11514	12867
35°	172086	118137	8073	11711	13603
40°	190783	124820	7442	12185	14703
45°	212530	124946	7331	12836	15929
50°	203574	117514	7261	13504	17335
55°	180247	76116	7446	14232	18736
60°	98718	16327	7509	14501	19427
65°	7050	3994	7376	14426	19601
70°	3424	3777	6798	13646	18933
75°	2994	3993	6521	13042	17500
80°	2975	3769	5951	11901	16365
85°	2964	4545	5928	10473	14820

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 212530 cd/sqm

TEST NUMBER: P1309039

CATALOG NUMBER: P3SQAS09R709035DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.3	1.9
10°-20°	61.3	8.1
20°-30°	117.6	15.6
30°-40°	166.3	22.0
40°-50°	188.1	24.9
50°-60°	148.9	19.8
60°-70°	40.2	5.3
70°-80°	13.3	1.8
80°-90°	4.1	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°	193.2	25.6
0°-40°	359.4	47.7
0°-60°	696.4	92.4
0°-90°	754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	754.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	110	110	110	110	110	
5°	249	199	108	68	64	29
15°	546	410	85	62	64	154
25°	729	516	57	59	64	334
35°	818	562	38	56	65	515
45°	873	513	30	53	65	653
55°	600	254	25	47	62	487
65°	17	10	18	35	48	62
75°	4	6	10	20	26	5
85°	2	2	3	5	8	2
90°	0	0	0	0	0	

TEST NUMBER: P1309039

CATALOG NUMBER: P3SQAS09R709035DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	109.8	109.8	109.8	109.8	109.8	109.8	109.8	109.8	109.8	109.8	109.8
2.5°	170.8	170.8	170.0	167.0	165.5	161.7	158.7	150.5	130.1	110.6	94.8
5°	249.0	252.8	247.5	246.7	242.2	235.5	230.9	199.4	150.5	108.3	81.2
7.5°	341.5	343.0	341.5	334.0	327.2	316.0	305.4	255.8	170.8	104.6	71.5
10°	426.5	424.3	419.8	414.5	404.7	392.7	374.6	312.9	190.3	99.3	65.4
12.5°	495.7	495.0	489.7	484.5	472.4	456.6	438.6	364.8	206.9	92.5	62.4
15°	546.1	546.1	540.9	534.9	523.6	510.8	490.5	410.0	220.4	85.0	59.4
17.5°	580.0	578.5	574.7	570.2	561.2	548.4	532.6	446.1	229.4	77.5	58.7
20°	601.8	601.1	598.1	591.3	583.8	574.0	559.7	476.9	233.2	70.7	57.9
22.5°	671.8	665.8	654.5	640.2	622.1	598.8	579.2	500.3	231.7	63.2	56.4
25°	728.9	726.7	714.7	697.4	673.3	643.2	610.8	516.1	224.2	57.2	54.9
27.5°	766.6	762.8	751.5	732.7	707.1	677.8	647.7	528.1	213.6	51.9	52.7
30°	792.9	790.6	779.3	758.3	732.0	699.6	668.8	541.6	199.4	46.6	50.4
32.5°	809.4	807.2	795.9	777.1	751.5	717.7	682.3	555.2	182.0	42.1	48.1
35°	818.5	816.2	803.4	786.9	762.8	729.7	692.1	561.9	161.0	38.4	45.9
37.5°	829.8	825.2	807.9	787.6	763.6	732.7	695.1	561.2	139.9	35.4	44.4
40°	848.6	836.5	811.7	784.6	759.8	728.9	692.8	555.2	116.6	33.1	42.9
42.5°	866.6	849.3	812.4	780.1	752.3	722.2	684.6	541.6	91.0	31.6	42.1
45°	872.6	847.1	801.9	769.6	743.2	712.4	673.3	513.0	61.7	30.1	40.6
47.5°	832.8	814.0	776.3	752.3	727.4	697.4	656.7	483.0	35.4	28.6	39.1
50°	759.8	747.8	726.7	711.6	698.1	677.0	637.2	438.6	21.1	27.1	37.6
52.5°	692.1	688.3	673.3	661.2	653.7	643.9	607.8	370.1	17.3	26.3	36.1
55°	600.3	588.3	584.5	580.0	595.8	595.0	546.1	253.5	16.5	24.8	34.6
57.5°	376.9	382.2	401.7	437.8	480.7	505.5	504.0	135.4	15.8	23.3	32.3
60°	286.6	285.9	291.9	306.9	338.5	373.9	407.0	47.4	15.0	21.8	30.8
62.5°	85.8	88.0	106.1	155.7	186.6	230.2	209.9	11.3	14.3	19.6	27.8
65°	17.3	18.1	18.1	20.3	24.8	37.6	45.9	9.8	13.5	18.1	25.6
67.5°	7.5	7.5	7.5	8.3	8.3	9.8	8.3	9.0	12.0	15.8	22.6
70°	6.8	6.8	6.8	6.8	6.8	6.8	7.5	7.5	10.5	13.5	19.6
72.5°	5.3	5.3	5.3	6.0	6.0	6.0	6.0	6.8	9.0	11.3	16.5
75°	4.5	4.5	4.5	4.5	5.3	5.3	5.3	6.0	7.5	9.8	13.5
77.5°	3.8	3.8	3.8	3.8	3.8	4.5	4.5	4.5	6.0	7.5	11.3
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.8	4.5	6.0	8.3
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.0	3.8	4.5	6.0
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	3.0	3.8
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	2.3
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: P1309039

CATALOG NUMBER: P3SQAS09R709035DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	109.8	109.8	109.8
2.5°	83.5	79.0	76.7
5°	68.5	64.7	63.9
7.5°	63.2	62.4	62.4
10°	61.7	62.4	63.2
12.5°	61.7	63.2	63.9
15°	61.7	63.2	63.9
17.5°	61.7	63.2	63.9
20°	60.9	63.2	64.7
22.5°	60.2	63.2	63.9
25°	59.4	63.2	63.9
27.5°	58.7	62.4	63.9
30°	57.9	62.4	64.7
32.5°	56.4	62.4	64.7
35°	55.7	62.4	64.7
37.5°	54.9	62.4	65.4
40°	54.2	62.4	65.4
42.5°	53.4	62.4	65.4
45°	52.7	61.7	65.4
47.5°	51.2	61.7	65.4
50°	50.4	60.9	64.7
52.5°	48.9	60.2	64.7
55°	47.4	58.7	62.4
57.5°	45.1	56.4	59.4
60°	42.1	53.4	56.4
62.5°	38.4	49.6	51.9
65°	35.4	45.1	48.1
67.5°	30.8	39.9	42.9
70°	27.1	34.6	37.6
72.5°	23.3	29.3	32.3
75°	19.6	24.1	26.3
77.5°	15.0	19.6	21.1
80°	12.0	15.0	16.5
82.5°	8.3	10.5	11.3
85°	5.3	6.8	7.5
87.5°	2.3	3.0	3.0
90°	0.0	0.0	0.0

(END OF REPORT)