

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: P1316153

Luminaire Tested: P3SQAS09R559827DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R559827DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 98CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

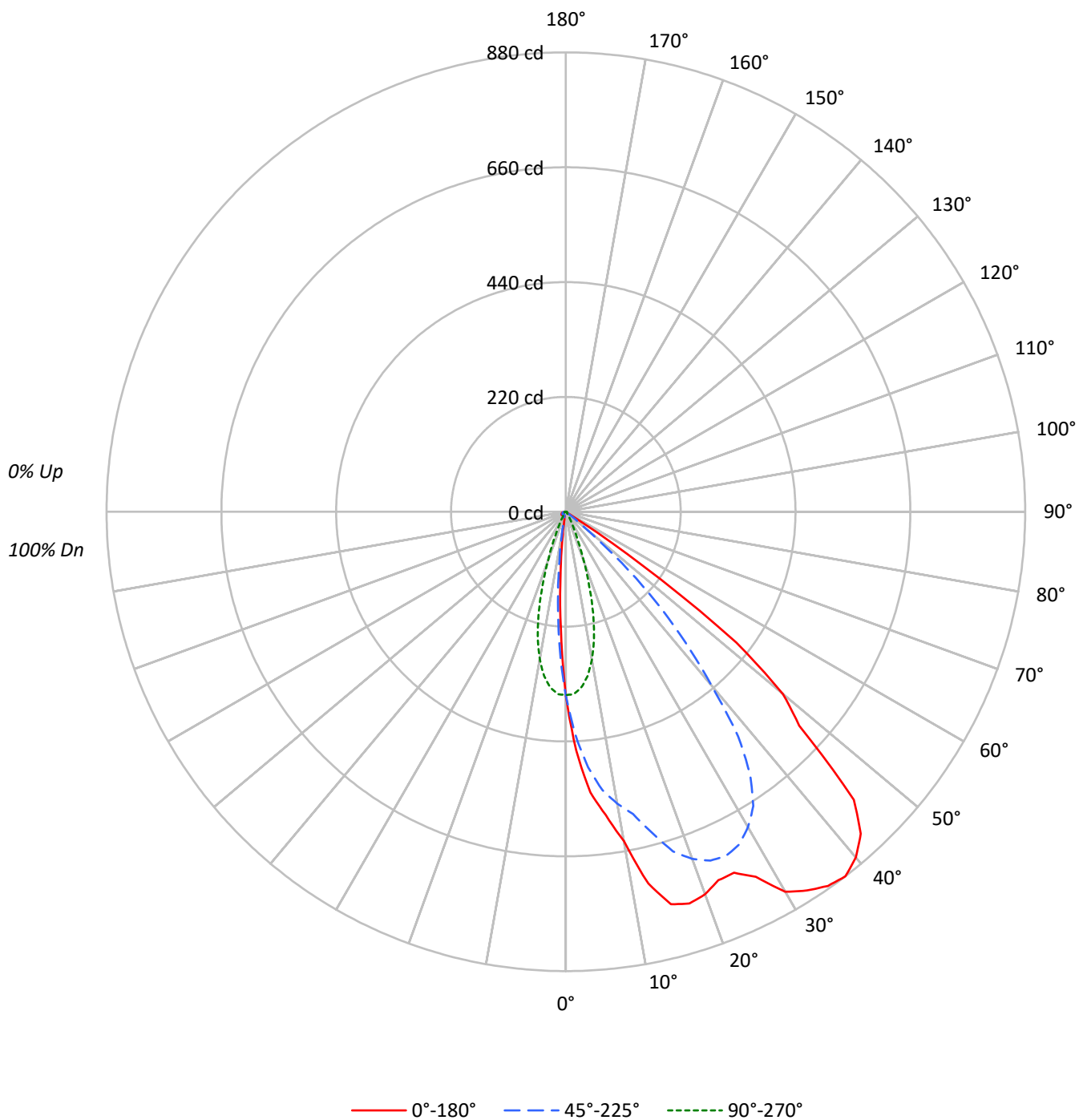
Lumens per Lamp: N/A
Luminaire Lumens: 586.0 lumens
Efficiency: N/A
Efficacy: 53.3 lumens/watt
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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: P1316153

CATALOG NUMBER: P3SQAS09R559827DE010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1316153

CATALOG NUMBER: P3SQAS09R559827DE010 E3SQCA301MW

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	112	109	106	103	110	107	104	102	103	100	98		99	97	95		95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	86	83	81
3	98	90	84	79	96	89	83	79	86	81	77		83	79	76		81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69		77	72	68		75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62		70	65	61		69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56		65	59	55		63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50		60	54	50		59	54	50	48
8	70	58	51	46	68	58	51	46	57	50	46		55	50	46		54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42		51	46	42		50	45	41	40
10	62	50	43	39	61	50	43	38	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	60485	60485	60485	60485	60485
5°	93286	84919	58434	30012	19708
10°	112080	99262	50295	7572	3025
15°	138769	113362	35945	2086	1640
20°	142918	129667	18566	1393	1393
25°	144990	138130	7449	1254	1444
30°	167127	138788	3242	1313	1511
35°	183964	129385	1388	1388	1703
40°	194313	97392	809	1596	1821
45°	190050	59502	755	1729	2241
50°	145379	12673	831	2036	2599
55°	53356	450	931	2282	2913
60°	517	517	1068	2618	3341
65°	611	611	1263	2690	3545
70°	504	755	1259	3072	4079
75°	333	665	1331	3394	4724
80°	496	992	1488	3570	5058
85°	0	988	1976	3952	4940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 190050 cd/sqm

TEST NUMBER: P1316153

CATALOG NUMBER: P3SQAS09R559827DE010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	5.3
10°-20°	88.5	15.1
20°-30°	135.8	23.2
30°-40°	158.3	27.0
40°-50°	126.5	21.6
50°-60°	37.4	6.4
60°-70°	4.0	0.7
70°-80°	3.1	0.5
80°-90°	1.3	0.2
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°	255.3	43.6
0°-40°	413.6	70.6
0°-60°	577.5	98.6
0°-90°	586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	586.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	351	351	351	351	351	
5°	540	491	338	174	114	54
15°	778	636	202	12	9	215
25°	763	727	39	7	8	362
35°	875	615	7	7	8	545
45°	780	244	3	7	9	563
55°	178	2	3	8	10	188
65°	2	2	3	7	9	1
75°	0	1	2	5	7	1
85°	0	0	1	2	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1316153

CATALOG NUMBER: P3SQAS09R559827DE010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	351.2	351.2	351.2	351.2	351.2	351.2	351.2	351.2	351.2	351.2	351.2
2.5°	458.1	458.1	456.6	457.1	456.1	450.5	449.5	442.3	436.2	429.6	424.0
5°	539.6	540.6	539.1	536.0	531.9	527.9	519.2	512.6	503.9	491.2	479.5
7.5°	585.9	584.9	582.3	581.3	578.8	574.2	568.1	560.9	550.8	538.0	524.3
10°	640.9	632.2	629.7	625.6	617.4	608.3	597.6	587.9	579.3	567.6	552.8
12.5°	729.4	727.9	717.7	710.1	698.9	678.5	660.2	638.8	613.4	593.0	573.7
15°	778.3	779.3	774.7	768.6	761.5	744.7	726.4	701.4	671.4	635.8	604.2
17.5°	787.0	788.5	785.9	783.4	781.4	771.7	760.5	742.7	715.2	682.1	635.3
20°	779.8	782.9	783.4	786.4	790.5	786.4	777.3	765.1	742.2	707.5	662.8
22.5°	764.0	769.6	773.7	784.4	795.1	795.1	789.5	779.8	757.4	723.3	677.5
25°	763.0	764.0	765.6	782.9	799.7	803.2	798.2	788.0	763.5	726.9	677.0
27.5°	788.5	781.9	771.7	789.0	808.8	811.9	804.8	791.0	762.0	718.7	659.7
30°	840.4	825.6	804.3	817.0	830.7	827.2	812.9	791.0	751.8	697.9	627.1
32.5°	860.3	852.1	844.5	858.2	860.8	846.0	820.6	788.0	735.5	668.4	573.7
35°	875.0	875.5	872.5	875.0	862.8	841.9	813.9	771.2	705.0	615.4	502.9
37.5°	880.1	881.1	874.5	865.3	847.0	823.1	789.5	740.6	654.1	542.6	396.0
40°	864.3	861.3	850.6	837.9	818.0	793.6	756.9	684.1	578.3	433.2	309.0
42.5°	836.3	831.2	818.5	803.2	782.4	751.3	692.8	604.7	469.8	338.0	216.3
45°	780.3	776.8	761.0	749.8	724.9	684.6	609.3	498.3	363.4	244.3	125.2
47.5°	606.3	606.8	619.0	624.6	615.9	583.9	495.3	378.7	265.2	145.6	42.2
50°	542.6	540.1	527.9	511.1	483.1	435.2	363.4	267.7	156.8	47.3	6.1
52.5°	411.8	411.8	405.7	397.0	367.5	321.2	245.9	148.1	55.0	8.1	1.5
55°	177.7	168.5	173.6	183.2	175.6	152.7	115.0	44.3	9.7	1.5	1.5
57.5°	2.5	6.1	9.2	14.8	19.9	23.9	12.7	4.6	1.5	1.5	1.5
60°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
62.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
67.5°	1.0	1.0	1.0	1.5	1.0	1.5	1.5	1.5	1.5	1.5	1.5
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75°	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
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: P1316153

CATALOG NUMBER: P3SQAS09R559827DE010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	351.2	351.2	351.2	351.2	351.2	351.2	351.2	351.2
2.5°	415.9	407.2	393.0	349.7	304.9	263.7	234.2	223.0
5°	466.3	450.5	426.6	338.0	248.9	173.6	130.8	114.0
7.5°	506.0	485.6	451.0	317.6	182.7	92.6	55.5	43.8
10°	532.4	510.0	464.7	287.6	121.1	43.3	20.9	17.3
12.5°	551.8	523.8	469.8	248.9	71.3	19.9	11.2	10.2
15°	566.0	529.9	463.7	201.6	39.2	11.7	9.2	9.2
17.5°	585.9	533.0	449.0	148.6	22.4	8.7	8.7	8.7
20°	601.2	533.0	421.0	101.3	13.7	7.6	7.6	7.6
22.5°	608.8	524.8	386.9	64.1	9.7	7.1	7.6	7.6
25°	601.2	505.0	343.1	39.2	7.6	6.6	7.1	7.6
27.5°	573.2	465.3	284.5	24.9	6.1	6.6	7.1	7.6
30°	526.3	407.7	218.4	16.3	5.6	6.6	7.1	7.6
32.5°	460.2	322.2	141.5	10.7	5.1	6.6	7.1	7.6
35°	359.4	228.0	85.5	6.6	5.1	6.6	7.6	8.1
37.5°	269.3	152.2	46.3	4.1	5.1	6.6	7.6	8.1
40°	186.8	88.6	19.9	3.6	5.1	7.1	8.1	8.1
42.5°	108.4	35.1	5.1	3.1	5.1	7.1	8.1	8.7
45°	39.7	7.1	1.5	3.1	5.6	7.1	8.1	9.2
47.5°	5.6	1.5	1.5	3.1	5.6	7.1	8.7	9.2
50°	1.5	1.5	1.5	3.1	5.6	7.6	9.2	9.7
52.5°	1.5	1.5	1.5	3.1	5.6	7.6	9.2	9.7
55°	1.5	1.5	1.5	3.1	5.6	7.6	9.2	9.7
57.5°	1.5	1.5	1.5	3.1	5.6	7.6	9.2	9.7
60°	1.5	1.5	1.5	3.1	5.1	7.6	9.2	9.7
62.5°	1.5	1.5	1.5	3.1	5.1	7.1	8.7	9.2
65°	1.5	1.5	1.5	3.1	4.6	6.6	8.7	8.7
67.5°	1.5	1.5	1.5	2.5	4.6	6.6	8.1	8.7
70°	1.5	1.5	1.5	2.5	4.1	6.1	7.6	8.1
72.5°	1.5	1.5	1.5	2.0	3.6	5.6	7.1	7.6
75°	1.0	1.5	1.5	2.0	3.6	5.1	6.6	7.1
77.5°	1.0	1.5	1.5	1.5	3.1	4.1	5.6	6.1
80°	1.0	1.0	1.5	1.5	2.5	3.6	4.6	5.1
82.5°	1.0	1.0	1.0	1.5	2.0	2.5	3.6	3.6
85°	1.0	1.0	1.0	1.0	1.5	2.0	2.5	2.5
87.5°	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)