

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: P1306622

Luminaire Tested: P3SQAS05R559027DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306622
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: P3SQAS05R559027DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

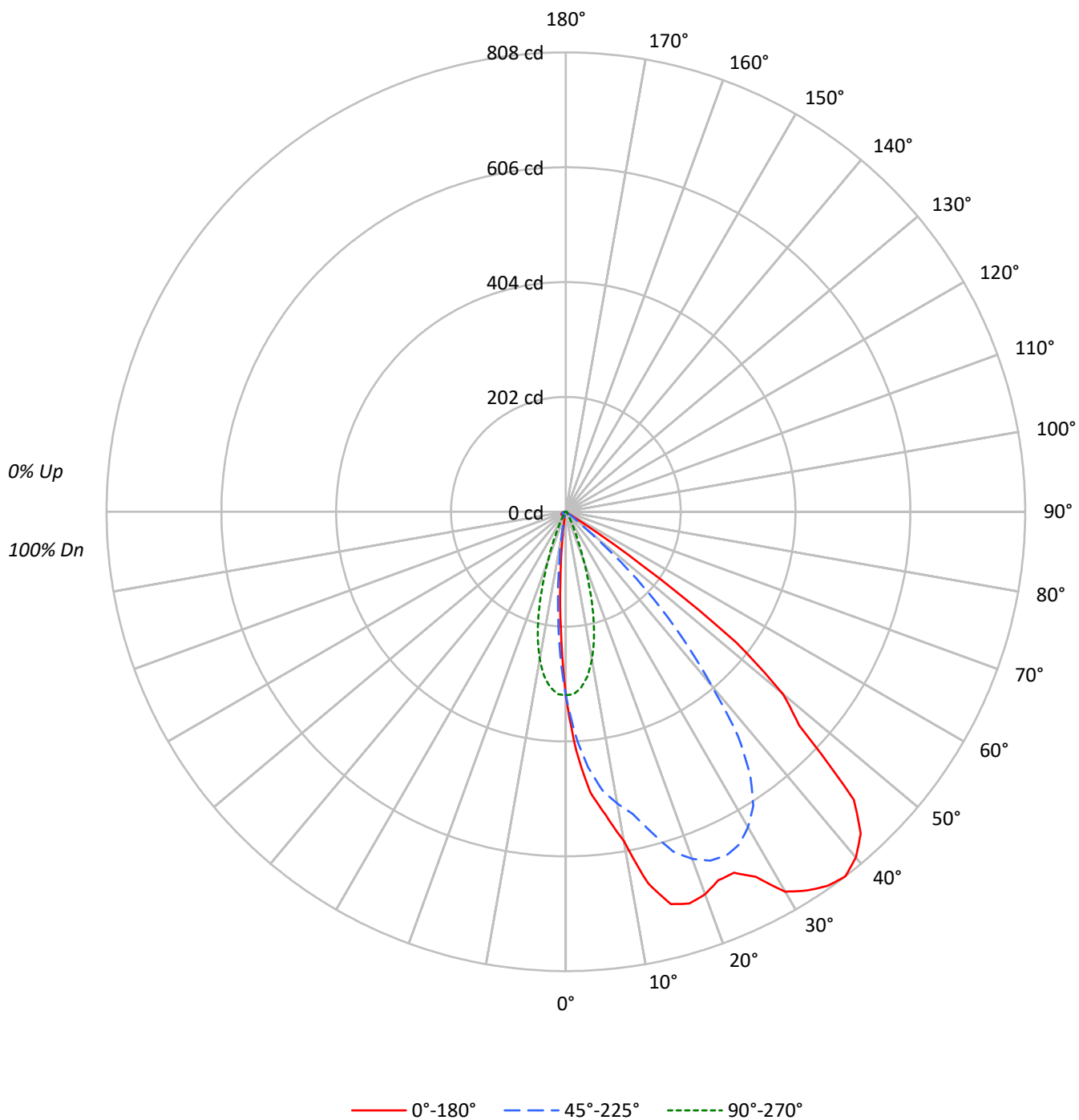
Lumens per Lamp: N/A
Luminaire Lumens: 538.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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

TEST NUMBER: P1306622

CATALOG NUMBER: P3SQAS05R559027DE010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1306622

CATALOG NUMBER: P3SQAS05R559027DE010 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°	55542	55542	55542	55542	55542
5°	85645	77969	53645	27557	18101
10°	102899	91130	46168	6943	2781
15°	127394	104073	33003	1908	1498
20°	131225	119056	17045	1283	1283
25°	133114	126805	6841	1159	1330
30°	153445	127413	2983	1213	1392
35°	168890	118788	1282	1282	1577
40°	178395	89411	742	1461	1686
45°	174486	54630	682	1583	2046
50°	133483	11655	750	1876	2385
55°	48973	420	841	2102	2672
60°	482	482	964	2411	3066
65°	571	571	1141	2486	3219
70°	453	705	1158	2820	3777
75°	333	599	1264	3127	4325
80°	496	893	1389	3273	4661
85°	0	988	1778	3754	4545

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 174486 cd/sqm

TEST NUMBER: P1306622

CATALOG NUMBER: P3SQAS05R559027DE010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.4	5.3
10°-20°	81.3	15.1
20°-30°	124.7	23.2
30°-40°	145.3	27.0
40°-50°	116.1	21.6
50°-60°	34.4	6.4
60°-70°	3.7	0.7
70°-80°	2.9	0.5
80°-90°	1.2	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°	234.4	43.6
0°-40°	379.7	70.6
0°-60°	530.2	98.6
0°-90°	538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	538.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	322	322	322	322	322	
5°	495	451	310	159	105	49
15°	714	584	185	11	8	197
25°	700	667	36	6	7	333
35°	803	565	6	6	8	500
45°	716	224	3	6	8	517
55°	163	1	3	7	9	173
65°	1	1	3	6	8	1
75°	0	1	2	5	6	1
85°	0	0	1	2	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1306622

CATALOG NUMBER: P3SQAS05R559027DE010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	322.5	322.5	322.5	322.5	322.5	322.5	322.5	322.5	322.5	322.5	322.5
2.5°	420.6	420.6	419.2	419.7	418.7	413.6	412.7	406.1	400.5	394.4	389.3
5°	495.4	496.3	494.9	492.1	488.4	484.6	476.7	470.6	462.7	451.0	440.2
7.5°	537.9	537.0	534.6	533.7	531.4	527.1	521.5	515.0	505.7	494.0	481.4
10°	588.4	580.4	578.1	574.4	566.9	558.5	548.6	539.8	531.8	521.1	507.5
12.5°	669.7	668.3	658.9	651.9	641.6	623.0	606.1	586.5	563.1	544.4	526.7
15°	714.5	715.5	711.3	705.7	699.1	683.7	666.9	644.0	616.4	583.7	554.7
17.5°	722.5	723.9	721.6	719.2	717.4	708.5	698.2	681.8	656.6	626.2	583.2
20°	716.0	718.8	719.2	722.0	725.8	722.0	713.6	702.4	681.4	649.6	608.5
22.5°	701.5	706.6	710.3	720.2	730.0	730.0	724.8	716.0	695.4	664.1	622.0
25°	700.5	701.5	702.9	718.8	734.2	737.4	732.8	723.4	701.0	667.3	621.6
27.5°	723.9	717.8	708.5	724.4	742.6	745.4	738.9	726.2	699.6	659.9	605.7
30°	771.6	758.0	738.4	750.1	762.7	759.4	746.3	726.2	690.2	640.7	575.8
32.5°	789.8	782.3	775.3	787.9	790.3	776.7	753.3	723.4	675.3	613.6	526.7
35°	803.3	803.8	801.0	803.3	792.1	773.0	747.3	708.0	647.3	565.0	461.7
37.5°	808.0	809.0	802.9	794.5	777.6	755.7	724.8	680.0	600.5	498.2	363.6
40°	793.5	790.7	780.9	769.2	751.0	728.6	694.9	628.1	530.9	397.7	283.7
42.5°	767.8	763.2	751.5	737.4	718.3	689.8	636.0	555.2	431.3	310.3	198.6
45°	716.4	713.1	698.7	688.4	665.5	628.6	559.4	457.5	333.7	224.3	115.0
47.5°	556.6	557.1	568.3	573.4	565.5	536.0	454.7	347.7	243.5	133.7	38.8
50°	498.2	495.8	484.6	469.2	443.5	399.6	333.7	245.8	143.9	43.5	5.6
52.5°	378.1	378.1	372.5	364.5	337.4	294.9	225.7	136.0	50.5	7.5	1.4
55°	163.1	154.7	159.4	168.2	161.2	140.2	105.6	40.7	8.9	1.4	1.4
57.5°	2.3	5.6	8.4	13.6	18.2	22.0	11.7	4.2	1.4	1.4	1.4
60°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
62.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	0.9	0.9	0.9	1.4	0.9	1.4	1.4	1.4	1.4	1.4	1.4
70°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
75°	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9
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: P1306622

CATALOG NUMBER: P3SQAS05R559027DE010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	322.5	322.5	322.5	322.5	322.5	322.5	322.5	322.5
2.5°	381.8	373.9	360.8	321.1	279.9	242.1	215.0	204.7
5°	428.1	413.6	391.6	310.3	228.5	159.4	120.1	104.7
7.5°	464.5	445.8	414.1	291.6	167.8	85.1	50.9	40.2
10°	488.8	468.3	426.7	264.0	111.2	39.7	19.2	15.9
12.5°	506.6	480.9	431.3	228.5	65.4	18.2	10.3	9.3
15°	519.7	486.5	425.7	185.1	36.0	10.7	8.4	8.4
17.5°	537.9	489.3	412.2	136.5	20.6	7.9	7.9	7.9
20°	551.9	489.3	386.5	93.0	12.6	7.0	7.0	7.0
22.5°	558.9	481.8	355.2	58.9	8.9	6.5	7.0	7.0
25°	551.9	463.6	315.0	36.0	7.0	6.1	6.5	7.0
27.5°	526.2	427.1	261.2	22.9	5.6	6.1	6.5	7.0
30°	483.2	374.3	200.5	15.0	5.1	6.1	6.5	7.0
32.5°	422.5	295.8	129.9	9.8	4.7	6.1	6.5	7.0
35°	329.9	209.4	78.5	6.1	4.7	6.1	7.0	7.5
37.5°	247.2	139.7	42.5	3.7	4.7	6.1	7.0	7.5
40°	171.5	81.3	18.2	3.3	4.7	6.5	7.5	7.5
42.5°	99.5	32.2	4.7	2.8	4.7	6.5	7.5	7.9
45°	36.5	6.5	1.4	2.8	5.1	6.5	7.5	8.4
47.5°	5.1	1.4	1.4	2.8	5.1	6.5	7.9	8.4
50°	1.4	1.4	1.4	2.8	5.1	7.0	8.4	8.9
52.5°	1.4	1.4	1.4	2.8	5.1	7.0	8.4	8.9
55°	1.4	1.4	1.4	2.8	5.1	7.0	8.4	8.9
57.5°	1.4	1.4	1.4	2.8	5.1	7.0	8.4	8.9
60°	1.4	1.4	1.4	2.8	4.7	7.0	8.4	8.9
62.5°	1.4	1.4	1.4	2.8	4.7	6.5	7.9	8.4
65°	1.4	1.4	1.4	2.8	4.2	6.1	7.9	7.9
67.5°	1.4	1.4	1.4	2.3	4.2	6.1	7.5	7.9
70°	1.4	1.4	1.4	2.3	3.7	5.6	7.0	7.5
72.5°	1.4	1.4	1.4	1.9	3.3	5.1	6.5	7.0
75°	0.9	1.4	1.4	1.9	3.3	4.7	6.1	6.5
77.5°	0.9	1.4	1.4	1.4	2.8	3.7	5.1	5.6
80°	0.9	0.9	1.4	1.4	2.3	3.3	4.2	4.7
82.5°	0.9	0.9	0.9	1.4	1.9	2.3	3.3	3.3
85°	0.9	0.9	0.9	0.9	1.4	1.9	2.3	2.3
87.5°	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)