

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: P1306623

Luminaire Tested: P3SQAS05R559027DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306623
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: P3SQAS05R559027DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

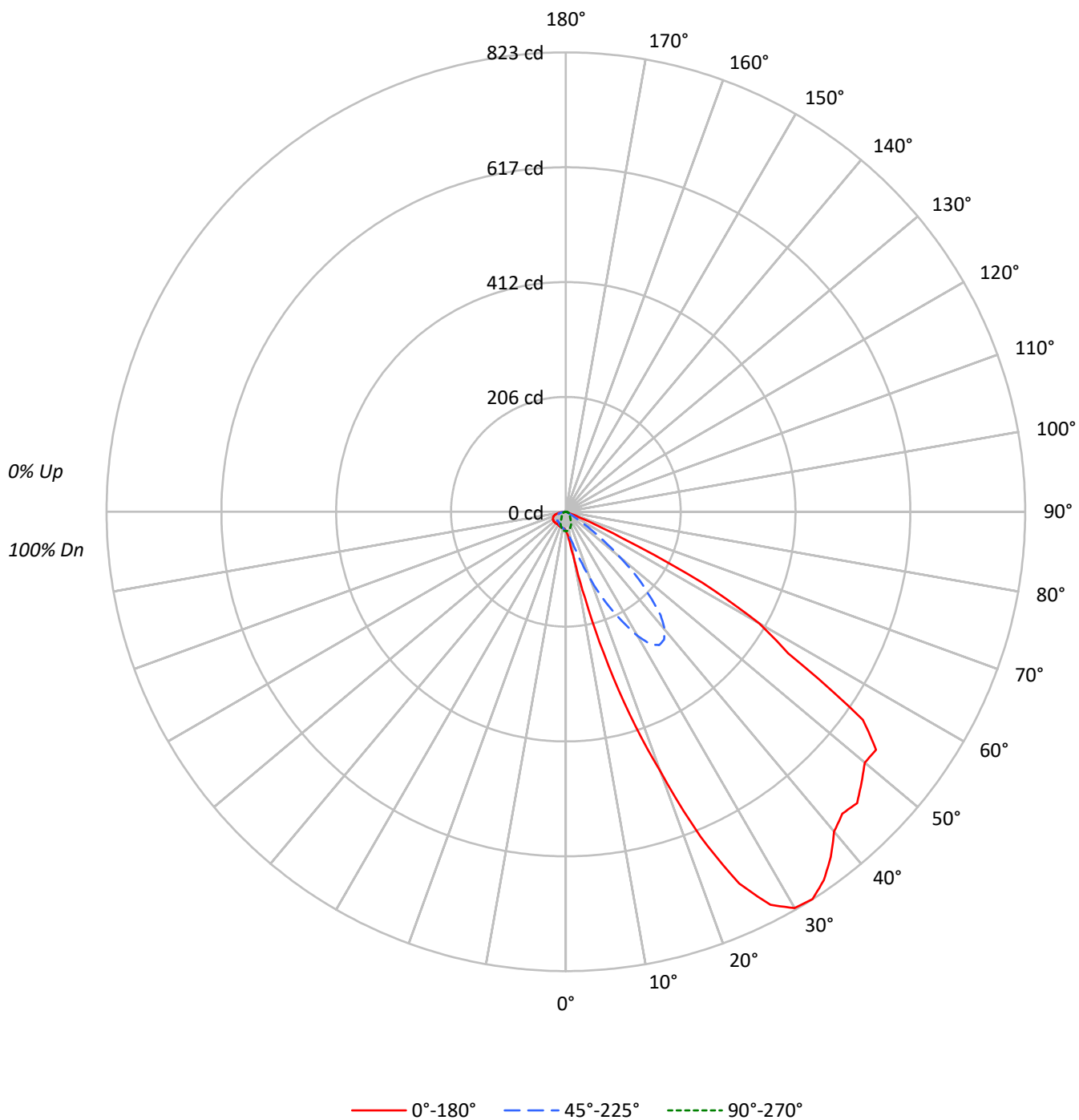
Lumens per Lamp: N/A
Luminaire Lumens: 529.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1306623

CATALOG NUMBER: P3SQAS05R559027DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1306623

CATALOG NUMBER: P3SQAS05R559027DE010 E3SQCA451MB

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32		
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27		
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5873	5873	5873	5873	5873
5°	7520	6863	5895	5498	5325
10°	15284	8744	5719	5229	5229
15°	46910	13426	5331	5081	5242
20°	90721	23478	4802	4967	5223
25°	139632	36504	4181	4789	5245
30°	163030	51029	3440	4733	5389
35°	169415	61328	2859	4709	5593
40°	168121	61893	2630	4946	6093
45°	179747	51221	2509	5358	6600
50°	187337	33813	2492	5761	7395
55°	195080	14743	2522	6305	8137
60°	137813	3376	2583	6923	9162
65°	44949	1141	2486	7417	10269
70°	1410	1158	2568	8006	11783
75°	1264	1264	2196	8384	13042
80°	893	1389	2281	8331	13885
85°	988	1778	2766	8299	13832

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 198204 cd/sqm

TEST NUMBER: P1306623

CATALOG NUMBER: P3SQAS05R559027DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.7
10°-20°	22.5	4.2
20°-30°	75.3	14.2
30°-40°	123.7	23.4
40°-50°	137.9	26.1
50°-60°	116.1	21.9
60°-70°	39.4	7.4
70°-80°	7.7	1.5
80°-90°	2.9	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°	101.4	19.2
0°-40°	225.0	42.5
0°-60°	479.0	90.6
0°-90°	529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	529.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	44	40	34	32	31	5
15°	263	75	30	28	29	83
25°	735	192	22	25	28	330
35°	806	292	14	22	27	500
45°	738	210	10	22	27	564
55°	650	49	8	21	27	529
65°	110	3	6	18	25	149
75°	2	2	3	13	20	2
85°	0	1	1	4	7	1
90°	0	0	0	0	0	

TEST NUMBER: P1306623

CATALOG NUMBER: P3SQAS05R559027DE010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1
2.5°	37.4	37.4	37.4	37.4	37.4	37.4	36.9	35.5	34.6	33.2	32.7
5°	43.5	43.5	43.5	43.0	43.0	42.1	39.7	36.5	34.1	32.3	31.8
7.5°	56.1	55.6	54.7	54.2	52.8	52.3	43.9	37.4	33.7	31.3	30.8
10°	87.4	86.5	85.1	79.9	75.3	72.0	50.0	37.9	32.7	30.4	29.9
12.5°	157.5	155.6	148.6	137.9	124.8	118.3	59.8	38.3	31.3	29.4	29.4
15°	263.1	260.8	247.7	232.8	208.9	195.8	75.3	37.9	29.9	28.0	28.5
17.5°	380.0	373.5	359.9	340.3	308.0	292.6	98.2	36.9	28.0	27.1	28.0
20°	495.0	493.1	470.7	444.0	404.3	383.7	128.1	35.5	26.2	25.7	27.1
22.5°	629.6	621.6	597.8	569.3	514.6	487.5	160.3	33.7	24.3	24.3	26.2
25°	734.8	725.4	706.7	673.5	621.6	592.7	192.1	31.3	22.0	22.9	25.2
27.5°	793.7	782.9	768.9	740.4	700.2	674.5	223.9	28.5	19.6	21.5	24.3
30°	819.8	817.0	806.7	785.7	748.8	725.9	256.6	25.2	17.3	20.1	23.8
32.5°	822.6	824.0	819.8	806.3	778.2	758.6	280.9	22.4	15.4	19.2	22.9
35°	805.8	810.9	813.7	808.1	789.9	774.0	291.7	19.2	13.6	18.2	22.4
37.5°	779.6	789.0	798.3	799.7	788.5	778.2	288.9	16.4	12.6	17.8	22.4
40°	747.8	756.3	775.4	787.6	783.8	776.4	275.3	13.6	11.7	16.8	22.0
42.5°	733.4	735.2	755.8	776.4	775.4	769.3	251.5	10.8	10.8	16.8	22.0
45°	738.0	729.6	743.2	767.0	765.6	757.7	210.3	8.4	10.3	16.4	22.0
47.5°	718.4	706.7	729.6	757.7	752.5	740.8	173.9	6.1	9.8	15.9	21.5
50°	699.2	697.4	715.1	729.1	722.1	715.6	126.2	4.7	9.3	15.4	21.5
52.5°	700.6	697.4	699.2	698.8	684.7	677.7	86.5	3.7	8.9	15.0	21.5
55°	649.7	639.4	629.6	632.4	633.3	628.7	49.1	3.3	8.4	15.0	21.0
57.5°	472.1	469.3	480.0	510.4	534.2	537.0	23.8	3.3	7.9	14.5	20.6
60°	400.1	398.2	398.7	407.6	420.2	412.2	9.8	3.3	7.5	14.0	20.1
62.5°	275.8	294.0	301.5	322.0	313.6	302.4	3.7	3.7	7.0	13.1	19.6
65°	110.3	109.8	120.1	129.9	127.1	118.7	2.8	3.3	6.1	12.2	18.2
67.5°	25.7	23.4	20.1	17.3	14.5	11.7	2.8	3.3	5.6	11.2	17.3
70°	2.8	2.8	2.8	2.8	2.8	2.3	2.3	3.3	5.1	10.3	15.9
72.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.8	4.2	8.9	14.5
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.3	3.3	7.5	12.6
77.5°	1.4	1.4	1.4	1.9	1.4	1.9	1.9	2.3	2.8	6.1	10.8
80°	0.9	0.9	1.4	1.4	1.4	1.4	1.4	1.9	2.3	5.1	8.4
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.9	3.7	6.1
85°	0.5	0.5	0.5	0.5	0.5	0.9	0.9	1.4	1.4	2.8	4.2
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	1.4	1.4	1.9
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: P1306623

CATALOG NUMBER: P3SQAS05R559027DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	34.1	34.1
2.5°	32.3	32.3
5°	31.3	30.8
7.5°	30.4	30.4
10°	29.9	29.9
12.5°	29.4	29.9
15°	29.4	29.4
17.5°	28.5	29.0
20°	28.0	28.5
22.5°	27.6	28.0
25°	27.1	27.6
27.5°	26.6	27.1
30°	26.2	27.1
32.5°	25.7	26.6
35°	25.7	26.6
37.5°	25.7	27.1
40°	25.7	27.1
42.5°	25.7	27.1
45°	25.7	27.1
47.5°	25.7	27.1
50°	25.7	27.6
52.5°	25.7	27.6
55°	25.7	27.1
57.5°	25.2	27.1
60°	25.2	26.6
62.5°	24.8	26.2
65°	23.8	25.2
67.5°	22.9	24.8
70°	21.5	23.4
72.5°	20.1	21.5
75°	18.2	19.6
77.5°	15.9	16.8
80°	12.6	14.0
82.5°	9.8	10.8
85°	6.5	7.0
87.5°	2.8	3.3
90°	0.0	0.0

(END OF REPORT)