

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: P1314116

Luminaire Tested: P3SQAS05R559735DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314116
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: P3SQAS05R559735DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

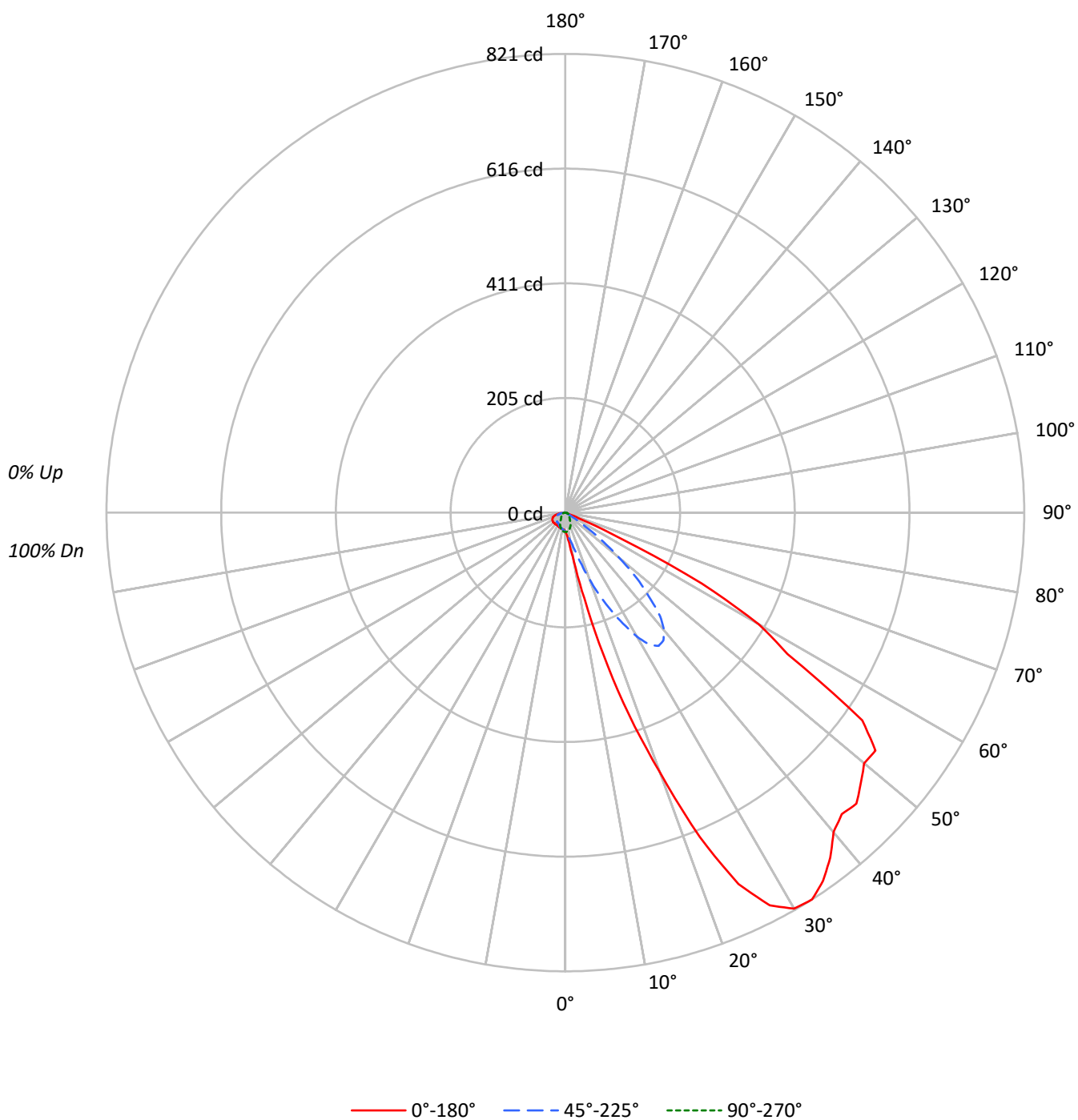
Lumens per Lamp: N/A
Luminaire Lumens: 528.0 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 3.75 / 0.9 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1314116

CATALOG NUMBER: P3SQAS05R559735DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1314116

CATALOG NUMBER: P3SQAS05R559735DE010 E3SQCA451MB

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°	5873	5873	5873	5873	5873
5°	7503	6863	5895	5480	5325
10°	15249	8726	5719	5229	5229
15°	46839	13390	5331	5081	5242
20°	90538	23423	4783	4967	5223
25°	139366	36428	4162	4789	5226
30°	162732	50929	3440	4733	5389
35°	169100	61202	2838	4709	5593
40°	167806	61781	2630	4924	6093
45°	179406	51123	2509	5334	6600
50°	186989	33759	2492	5761	7368
55°	194719	14713	2522	6305	8137
60°	137537	3376	2583	6923	9162
65°	44867	1141	2486	7417	10269
70°	1410	1158	2568	8006	11733
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: 197837 cd/sqm

TEST NUMBER: P1314116

CATALOG NUMBER: P3SQAS05R559735DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.7
10°-20°	22.4	4.2
20°-30°	75.2	14.2
30°-40°	123.4	23.4
40°-50°	137.7	26.1
50°-60°	115.9	21.9
60°-70°	39.3	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°	101.2	19.2
0°-40°	224.6	42.5
0°-60°	478.2	90.6
0°-90°	528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	528.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	43	40	34	32	31	5
15°	263	75	30	28	29	83
25°	733	192	22	25	28	330
35°	804	291	14	22	27	499
45°	737	210	10	22	27	563
55°	648	49	8	21	27	528
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: P1314116

CATALOG NUMBER: P3SQAS05R559735DE010 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°	37.3	37.3	37.3	37.3	37.3	37.3	36.9	35.5	34.5	33.1	32.7
5°	43.4	43.4	43.4	42.9	42.9	42.0	39.7	36.4	34.1	32.2	31.7
7.5°	56.0	55.5	54.6	54.1	52.7	52.3	43.9	37.3	33.6	31.3	30.8
10°	87.2	86.3	84.9	79.8	75.1	71.8	49.9	37.8	32.7	30.3	29.9
12.5°	157.2	155.4	148.4	137.6	124.6	118.0	59.7	38.3	31.3	29.4	29.4
15°	262.7	260.3	247.3	232.3	208.5	195.5	75.1	37.8	29.9	28.0	28.5
17.5°	379.3	372.7	359.2	339.6	307.4	292.0	98.0	36.9	28.0	27.1	28.0
20°	494.0	492.2	469.8	443.2	403.5	383.0	127.8	35.5	26.1	25.7	27.1
22.5°	628.4	620.5	596.7	568.2	513.6	486.6	160.0	33.6	24.3	24.3	26.1
25°	733.4	724.0	705.4	672.3	620.5	591.5	191.7	31.3	21.9	22.9	25.2
27.5°	792.2	781.4	767.4	739.0	698.8	673.2	223.5	28.5	19.6	21.5	24.3
30°	818.3	815.5	805.2	784.2	747.4	724.5	256.1	25.2	17.3	20.1	23.8
32.5°	821.1	822.5	818.3	804.7	776.8	757.2	280.4	22.4	15.4	19.1	22.9
35°	804.3	809.4	812.2	806.6	788.4	772.6	291.1	19.1	13.5	18.2	22.4
37.5°	778.2	787.5	796.8	798.2	787.0	776.8	288.3	16.3	12.6	17.7	22.4
40°	746.4	754.8	774.0	786.1	782.4	774.9	274.8	13.5	11.7	16.8	21.9
42.5°	732.0	733.8	754.4	774.9	774.0	767.9	251.0	10.7	10.7	16.8	21.9
45°	736.6	728.2	741.8	765.6	764.2	756.2	209.9	8.4	10.3	16.3	21.9
47.5°	717.0	705.4	728.2	756.2	751.1	739.4	173.5	6.1	9.8	15.9	21.5
50°	697.9	696.0	713.8	727.8	720.8	714.2	126.0	4.7	9.3	15.4	21.5
52.5°	699.3	696.0	697.9	697.4	683.5	676.5	86.3	3.7	8.9	14.9	21.5
55°	648.5	638.2	628.4	631.2	632.1	627.5	49.0	3.3	8.4	14.9	21.0
57.5°	471.2	468.4	479.1	509.4	533.2	536.0	23.8	3.3	7.9	14.5	20.5
60°	399.3	397.5	397.9	406.8	419.4	411.5	9.8	3.3	7.5	14.0	20.1
62.5°	275.2	293.4	300.9	321.4	313.0	301.8	3.7	3.7	7.0	13.1	19.6
65°	110.1	109.6	119.9	129.7	126.9	118.5	2.8	3.3	6.1	12.1	18.2
67.5°	25.7	23.3	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	10.7
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: P1314116

CATALOG NUMBER: P3SQAS05R559735DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	34.1	34.1
2.5°	32.2	32.2
5°	31.3	30.8
7.5°	30.3	30.3
10°	29.9	29.9
12.5°	29.4	29.9
15°	29.4	29.4
17.5°	28.5	28.9
20°	28.0	28.5
22.5°	27.5	28.0
25°	27.1	27.5
27.5°	26.6	27.1
30°	26.1	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	27.5
52.5°	25.7	27.5
55°	25.7	27.1
57.5°	25.2	27.1
60°	25.2	26.6
62.5°	24.7	26.1
65°	23.8	25.2
67.5°	22.9	24.7
70°	21.5	23.3
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	10.7
85°	6.5	7.0
87.5°	2.8	3.3
90°	0.0	0.0

(END OF REPORT)