

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: P1305642

Luminaire Tested: P3SQAS05R509024DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R509024DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R50 optic, 2400K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

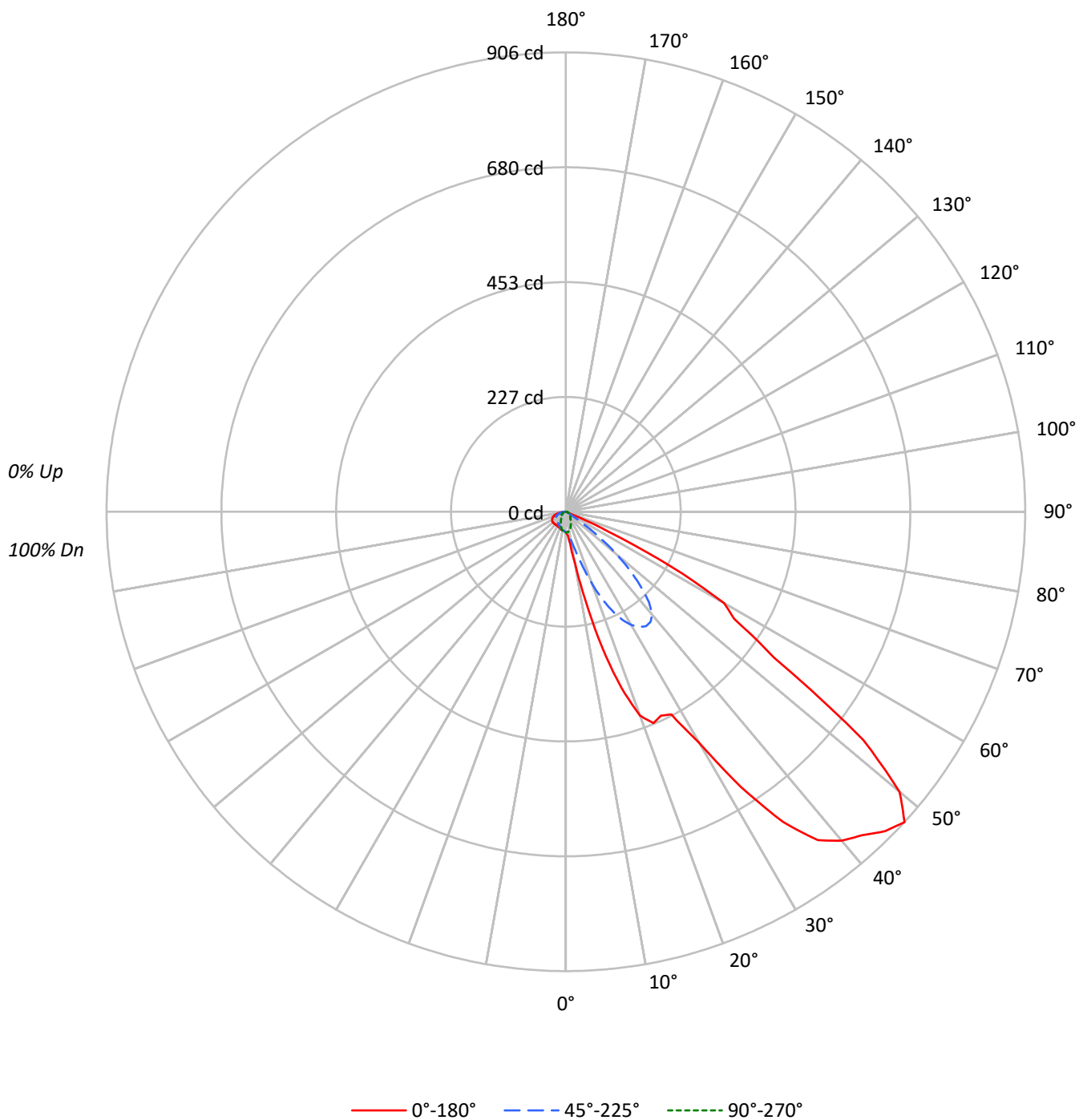
Lumens per Lamp: N/A
Luminaire Lumens: 511.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1305642

CATALOG NUMBER: P3SQAS05R509024DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1305642

CATALOG NUMBER: P3SQAS05R509024DE010 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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6992	6992	6992	6992	6992
5°	8316	7780	6950	6639	6569
10°	17908	9653	6645	6401	6488
15°	49585	15815	5973	6133	6383
20°	78387	27748	5168	5901	6231
25°	84296	40761	4447	5701	6290
30°	104623	51168	3858	5608	6503
35°	157011	57901	3343	5656	6875
40°	190423	59533	2968	5845	7239
45°	216939	51074	2898	6235	7964
50°	230233	35233	2947	6752	8869
55°	150431	14172	2913	7296	9819
60°	124069	2446	2893	7922	10781
65°	37410	1263	2690	8436	11859
70°	1561	1309	2669	8661	12891
75°	1464	1464	2662	8784	14107
80°	1289	1289	2579	8728	14480
85°	790	1778	3557	8695	14030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 230985 cd/sqm

TEST NUMBER: P1305642

CATALOG NUMBER: P3SQAS05R509024DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.8
10°-20°	24.2	4.7
20°-30°	62.2	12.2
30°-40°	111.7	21.9
40°-50°	149.2	29.2
50°-60°	113.7	22.2
60°-70°	34.5	6.8
70°-80°	8.2	1.6
80°-90°	3.0	0.6
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°	90.6	17.7
0°-40°	202.4	39.6
0°-60°	465.3	91.1
0°-90°	511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	511.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	41	41	41	41	41	
5°	48	45	40	38	38	6
15°	278	89	34	34	36	82
25°	444	214	23	30	33	212
35°	747	275	16	27	33	459
45°	891	210	12	26	33	681
55°	501	47	10	24	33	498
65°	92	3	7	21	29	127
75°	2	2	4	13	21	2
85°	0	1	2	4	7	1
90°	0	0	0	0	0	

TEST NUMBER: P1305642

CATALOG NUMBER: P3SQAS05R509024DE010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
2.5°	43.3	43.3	43.3	43.3	43.3	43.3	42.8	42.8	42.8	41.9	41.0
5°	48.1	48.6	48.1	48.1	47.2	47.2	46.3	46.3	45.0	42.4	40.2
7.5°	63.1	62.7	62.2	60.5	59.1	56.1	54.7	52.5	48.6	42.4	39.3
10°	102.4	99.7	98.0	94.0	85.6	80.3	73.3	66.2	55.2	42.4	38.0
12.5°	177.9	177.4	172.1	158.9	147.0	130.6	113.4	96.2	68.0	41.5	36.2
15°	278.1	274.1	266.6	251.1	230.0	204.4	173.5	143.0	88.7	40.2	33.5
17.5°	363.7	358.8	353.1	337.6	313.4	281.2	244.1	202.1	117.0	38.4	30.9
20°	427.7	424.6	419.7	407.4	384.4	355.3	313.8	263.1	151.4	36.2	28.2
22.5°	451.1	450.6	451.5	447.1	435.6	412.7	373.0	320.0	185.4	33.5	25.6
25°	443.6	443.1	448.9	454.6	457.3	448.0	417.5	365.9	214.5	31.3	23.4
27.5°	450.6	449.3	446.7	447.5	455.1	460.3	446.2	401.2	239.7	28.2	21.2
30°	526.1	518.6	506.7	486.4	471.4	470.1	463.9	429.0	257.3	25.2	19.4
32.5°	644.0	634.7	613.1	575.5	539.8	512.4	493.0	452.4	269.7	22.1	17.2
35°	746.8	740.2	715.0	677.9	626.7	575.5	540.2	486.8	275.4	19.4	15.9
37.5°	816.5	813.9	789.2	749.4	697.4	636.9	590.1	522.1	274.1	16.3	14.6
40°	847.0	839.0	818.3	784.8	732.2	677.9	628.5	544.7	264.8	13.2	13.2
42.5°	865.1	856.3	833.7	802.0	750.3	692.5	632.9	534.9	242.8	10.6	12.8
45°	890.7	881.4	851.8	817.9	765.8	698.7	615.7	500.5	209.7	7.9	11.9
47.5°	906.1	900.0	877.9	843.9	780.8	689.9	576.0	468.3	173.0	6.2	11.5
50°	859.3	853.2	836.8	813.4	771.1	660.3	541.1	416.2	131.5	4.9	11.0
52.5°	739.7	745.0	748.1	754.7	723.8	594.1	489.0	374.7	88.7	4.0	10.2
55°	501.0	508.9	517.7	544.2	580.4	528.8	434.3	324.0	47.2	4.0	9.7
57.5°	393.7	391.1	388.4	386.6	414.9	436.1	381.8	259.1	20.3	4.0	8.8
60°	360.2	352.2	346.9	348.2	362.4	354.0	302.3	169.0	7.1	4.0	8.4
62.5°	236.1	242.3	254.2	274.5	264.8	227.3	175.7	67.1	3.5	4.0	7.5
65°	91.8	88.7	91.8	97.5	84.3	62.7	39.3	11.9	3.1	3.5	6.6
67.5°	12.4	11.0	8.4	5.3	4.9	4.4	3.5	3.1	3.1	3.5	6.2
70°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.6	2.6	3.1	5.3
72.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.1	4.4
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.6	4.0
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.2	3.1
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8	2.6
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.8	2.2
85°	0.4	0.9	0.4	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.8
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3	1.3
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: P1305642

CATALOG NUMBER: P3SQAS05R509024DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	40.6	40.6	40.6	40.6
2.5°	40.2	39.3	39.3	39.3
5°	39.3	38.4	38.4	38.0
7.5°	38.0	37.5	37.5	37.5
10°	37.1	36.6	37.1	37.1
12.5°	35.3	35.8	36.2	36.2
15°	33.5	34.4	35.3	35.8
17.5°	31.8	33.5	34.4	34.9
20°	30.0	32.2	33.5	34.0
22.5°	28.7	30.9	32.7	33.5
25°	26.9	30.0	32.2	33.1
27.5°	25.2	28.7	31.3	32.7
30°	23.8	28.2	31.3	32.7
32.5°	22.5	27.4	30.9	32.2
35°	21.6	26.9	30.9	32.7
37.5°	20.7	26.5	30.9	32.2
40°	20.3	26.0	30.9	32.2
42.5°	19.9	26.0	30.9	32.7
45°	19.0	25.6	30.9	32.7
47.5°	18.5	25.6	30.9	32.7
50°	18.1	25.2	30.9	33.1
52.5°	17.7	24.7	30.9	33.1
55°	16.8	24.3	30.5	32.7
57.5°	16.3	23.8	30.0	31.8
60°	15.4	23.0	29.1	31.3
62.5°	14.6	22.1	28.2	30.0
65°	13.2	20.7	26.9	29.1
67.5°	11.9	19.0	25.6	27.8
70°	10.6	17.2	23.8	25.6
72.5°	9.3	15.4	22.1	23.4
75°	7.9	13.2	19.4	21.2
77.5°	6.6	11.5	16.3	17.7
80°	4.9	8.8	13.2	14.6
82.5°	4.0	6.6	9.7	10.6
85°	2.6	4.4	6.2	7.1
87.5°	1.3	2.2	3.1	3.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)