

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: P1310707

Luminaire Tested: P3SQAS24R359040D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R359040D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

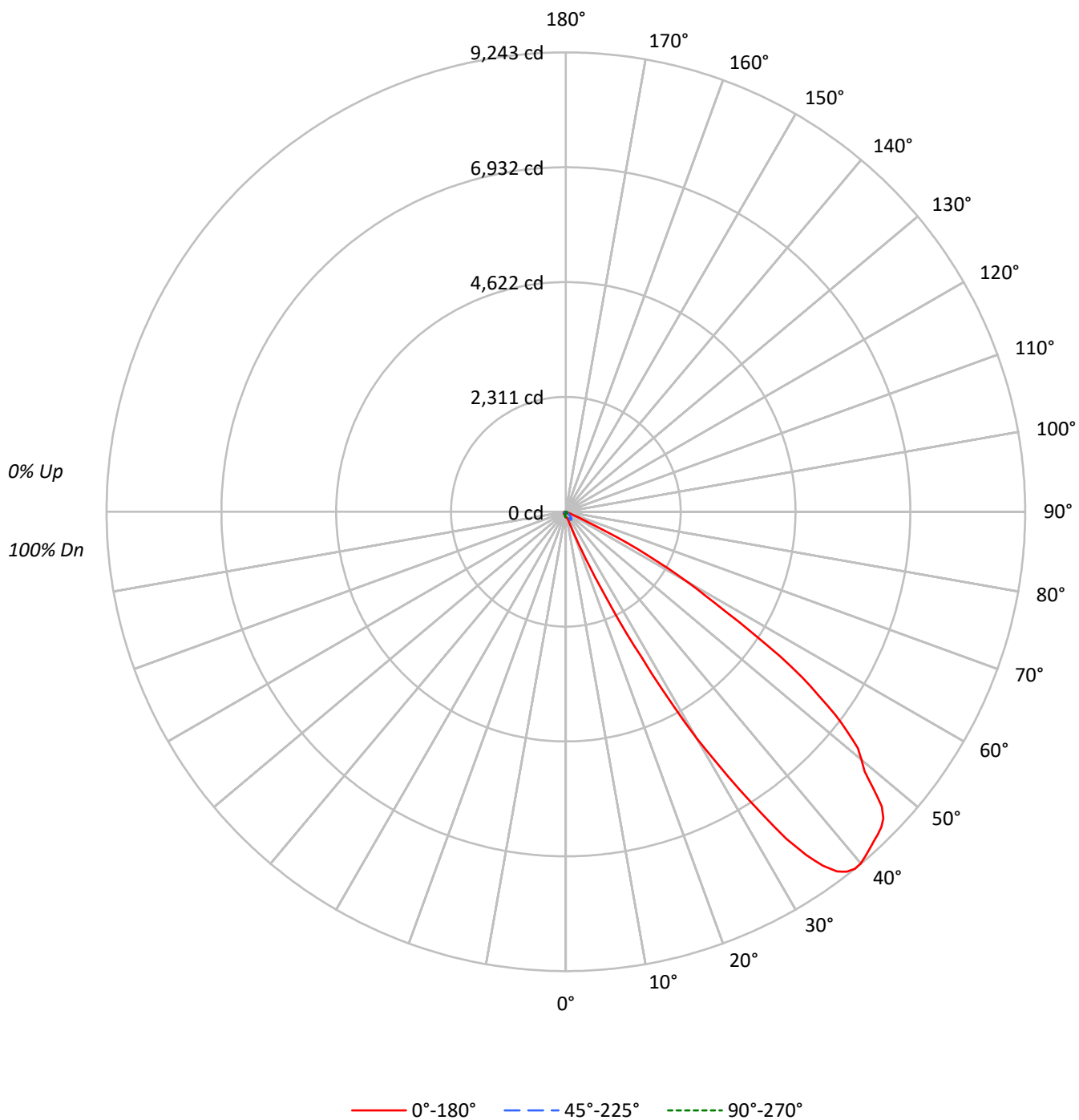
Lumens per Lamp: N/A
Luminaire Lumens: 2302.0 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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: P1310707

CATALOG NUMBER: P3SQAS24R359040D010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1310707

CATALOG NUMBER: P3SQAS24R359040D010 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	100	97	94	96	93	91	92	90	89	87		
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	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29		
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24		
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20		
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	18256	18256	18256	18256	18256
5°	19760	19397	17962	16164	15801
10°	20706	18904	15984	13815	13815
15°	29633	18525	12962	11857	12231
20°	74263	19812	10282	10282	11418
25°	344727	25274	7905	9482	10660
30°	1048002	34304	6205	8671	10739
35°	1771188	39757	5235	8305	10491
40°	2076174	39254	4204	8408	11219
45°	2186483	27839	3532	9109	12154
50°	2081207	16692	3349	9458	13370
55°	1743946	6876	3753	10599	15614
60°	976330	1447	4306	12159	17188
65°	168507	856	4238	13529	19479
70°	3122	1057	5237	14653	21955
75°	2795	1397	6920	16569	24887
80°	2083	2083	8232	18546	28861
85°	0	4150	16401	20551	32802

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 2201964 cd/sqm

TEST NUMBER: P1310707

CATALOG NUMBER: P3SQAS24R359040D010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.6	0.4
10°-20°	27.1	1.2
20°-30°	141.3	6.1
30°-40°	610.0	26.5
40°-50°	870.1	37.8
50°-60°	538.9	23.4
60°-70°	82.0	3.6
70°-80°	15.3	0.7
80°-90°	7.7	0.3
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°	177.9	7.7
0°-40°	787.9	34.2
0°-60°	2197.0	95.4
0°-90°	2302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2302.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	106	106	106	106	106	
5°	114	112	104	94	91	11
15°	166	104	73	66	69	60
25°	1814	133	42	50	56	1086
35°	8424	189	25	40	50	5058
45°	8977	114	14	37	50	6782
55°	5808	23	12	35	52	4947
65°	414	2	10	33	48	845
75°	4	2	10	25	37	4
85°	0	2	8	10	17	1
90°	0	0	0	0	0	

TEST NUMBER: P1310707

CATALOG NUMBER: P3SQAS24R359040D010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0
2.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	106.0	103.9
5°	114.3	114.3	112.2	112.2	112.2	112.2	112.2	112.2	108.1	103.9	97.7
7.5°	116.4	116.4	114.3	114.3	114.3	114.3	112.2	110.1	106.0	97.7	91.4
10°	118.4	118.4	118.4	118.4	116.4	114.3	112.2	108.1	101.8	91.4	85.2
12.5°	133.0	133.0	130.9	126.8	122.6	118.4	114.3	106.0	93.5	83.1	76.9
15°	166.2	164.2	160.0	153.8	145.5	135.1	126.8	103.9	85.2	72.7	68.6
17.5°	232.7	228.6	222.4	201.6	182.9	164.2	147.5	103.9	76.9	64.4	60.3
20°	405.2	407.3	363.7	313.8	272.2	226.5	184.9	108.1	68.6	56.1	54.0
22.5°	845.8	812.5	708.6	588.1	448.9	347.0	261.8	118.4	60.3	47.8	47.8
25°	1814.1	1687.4	1435.9	1084.7	764.7	542.4	380.3	133.0	54.0	41.6	43.6
27.5°	3312.4	3198.1	2693.1	2028.2	1346.6	818.8	515.4	151.7	47.8	35.3	39.5
30°	5269.9	4954.1	4295.3	3324.9	2250.5	1253.1	692.0	172.5	39.5	31.2	37.4
31°	5880.9	5735.4	4933.3	3846.5	2637.0	1487.9	766.8	178.7	37.4	31.2	35.3
32°	6606.1	6348.4	5629.4	4417.9	3029.8	1697.8	856.2	184.9	35.3	27.0	35.3
33°	7254.5	7005.1	6130.2	4920.8	3426.7	1936.7	951.7	187.0	31.2	27.0	33.2
34°	7936.1	7595.3	6728.7	5446.6	3834.0	2194.4	1039.0	189.1	29.1	24.9	33.2
35°	8424.4	8083.6	7244.1	5862.2	4185.2	2423.0	1138.8	189.1	27.0	24.9	31.2
36°	8802.6	8503.4	7688.8	6290.3	4534.3	2628.7	1217.7	189.1	22.9	22.9	31.2
37°	9062.4	8777.7	7988.0	6658.1	4800.3	2811.6	1288.4	189.1	20.8	22.9	31.2
38°	9189.1	8952.2	8276.9	6926.1	5058.0	2955.0	1344.5	184.9	18.7	20.8	29.1
39°	9243.2	9049.9	8453.5	7152.6	5251.2	3079.7	1386.1	180.8	16.6	20.8	29.1
40°	9234.8	9066.5	8553.2	7308.5	5407.1	3164.9	1408.9	174.6	14.5	18.7	29.1
41°	9187.0	9041.6	8605.2	7441.5	5500.6	3223.1	1415.2	168.3	12.5	18.7	27.0
42°	9133.0	9000.0	8621.8	7512.1	5560.9	3241.8	1398.5	160.0	12.5	16.6	27.0
43°	9076.9	8954.3	8621.8	7535.0	5575.4	3229.3	1371.5	145.5	10.4	16.6	27.0
44°	9031.2	8914.8	8594.8	7528.8	5544.2	3181.5	1321.6	128.8	8.3	16.6	27.0
45°	8977.2	8862.9	8559.5	7489.3	5484.0	3100.4	1259.3	114.3	6.2	14.5	27.0
46°	8881.6	8792.2	8497.1	7408.2	5388.4	2988.2	1180.3	103.9	4.2	14.5	24.9
47°	8696.6	8619.7	8376.6	7287.7	5261.6	2855.2	1099.3	93.5	4.2	14.5	24.9
48°	8324.7	8322.6	8135.6	7063.3	5060.0	2689.0	1014.1	83.1	4.2	14.5	24.9
49°	7965.2	7927.8	7695.0	6668.5	4771.2	2489.5	924.7	74.8	2.1	14.5	24.9
50°	7767.7	7686.7	7304.3	6203.0	4401.3	2213.1	829.1	62.3	2.1	12.5	24.9
51°	7562.0	7445.6	6994.7	5783.2	3960.8	1947.1	725.2	49.9	2.1	12.5	22.9
52°	7190.0	7079.9	6574.9	5382.1	3532.7	1674.9	625.5	41.6	2.1	12.5	24.9
53°	6789.0	6631.1	6082.4	4941.6	3156.6	1433.9	523.7	35.3	2.1	12.5	22.9
54°	6284.0	6213.4	5583.7	4401.3	2716.0	1201.1	430.2	29.1	2.1	12.5	22.9
55°	5808.1	5704.2	5049.7	3848.5	2317.0	985.0	359.5	22.9	2.1	12.5	22.9
56°	5201.4	5045.5	4432.5	3341.5	1911.8	793.8	303.4	18.7	2.1	12.5	22.9
57°	4478.2	4311.9	3827.8	2778.3	1500.4	604.7	253.5	14.5	2.1	12.5	22.9
58°	3788.3	3644.9	3125.4	2144.5	1130.5	419.8	209.9	10.4	2.1	10.4	22.9
59°	3272.9	3115.0	2599.6	1650.0	785.5	309.6	157.9	8.3	2.1	12.5	22.9
60°	2834.5	2630.8	2092.6	1278.0	561.1	222.4	116.4	4.2	4.2	12.5	22.9
62.5°	1633.3	1442.2	999.5	519.5	230.7	114.3	56.1	2.1	4.2	12.5	22.9
65°	413.5	367.8	239.0	112.2	64.4	39.5	20.8	2.1	4.2	10.4	20.8



TEST NUMBER: P1310707

CATALOG NUMBER: P3SQAS24R359040D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	14.5	14.5	14.5	12.5	10.4	8.3	4.2	2.1	4.2	10.4	20.8
70°	6.2	6.2	6.2	4.2	4.2	2.1	2.1	2.1	4.2	10.4	18.7
72.5°	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	6.2	10.4	16.6
75°	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	6.2	10.4	16.6
77.5°	4.2	4.2	2.1	2.1	2.1	2.1	2.1	2.1	6.2	8.3	14.5
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	6.2	8.3	12.5
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	6.2	8.3	10.4
85°	0.0	0.0	0.0	0.0	0.0	2.1	0.0	2.1	6.2	8.3	8.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	6.2	8.3	6.2
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: P1310707

CATALOG NUMBER: P3SQAS24R359040D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	106.0	106.0	106.0
2.5°	99.7	99.7	99.7
5°	93.5	93.5	91.4
7.5°	87.3	85.2	85.2
10°	79.0	79.0	79.0
12.5°	72.7	72.7	72.7
15°	66.5	68.6	68.6
17.5°	60.3	64.4	64.4
20°	56.1	60.3	62.3
22.5°	52.0	56.1	58.2
25°	49.9	54.0	56.1
27.5°	45.7	52.0	56.1
30°	43.6	49.9	54.0
31°	43.6	49.9	52.0
32°	41.6	49.9	52.0
33°	41.6	49.9	52.0
34°	41.6	47.8	52.0
35°	39.5	47.8	49.9
36°	39.5	47.8	49.9
37°	39.5	47.8	52.0
38°	39.5	47.8	49.9
39°	37.4	47.8	49.9
40°	37.4	47.8	49.9
41°	37.4	47.8	49.9
42°	37.4	47.8	49.9
43°	37.4	47.8	49.9
44°	37.4	45.7	49.9
45°	37.4	45.7	49.9
46°	37.4	47.8	49.9
47°	37.4	47.8	52.0
48°	37.4	45.7	49.9
49°	35.3	45.7	49.9
50°	35.3	45.7	49.9
51°	35.3	47.8	52.0
52°	35.3	47.8	52.0
53°	35.3	47.8	52.0
54°	35.3	47.8	49.9
55°	35.3	47.8	52.0
56°	35.3	47.8	49.9
57°	35.3	47.8	49.9
58°	35.3	45.7	49.9
59°	35.3	45.7	49.9
60°	35.3	45.7	49.9
62.5°	33.2	45.7	49.9
65°	33.2	43.6	47.8



TEST NUMBER: P1310707

CATALOG NUMBER: P3SQAS24R359040D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	31.2	43.6	45.7
70°	29.1	41.6	43.6
72.5°	27.0	39.5	41.6
75°	24.9	35.3	37.4
77.5°	20.8	31.2	35.3
80°	18.7	27.0	29.1
82.5°	14.5	22.9	24.9
85°	10.4	16.6	16.6
87.5°	4.2	8.3	8.3
90°	0.0	0.0	0.0

(END OF REPORT)