

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: P1311784

Luminaire Tested: P3SQAS24R359050D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311784
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: P3SQAS24R359050D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R35 optic, 5000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

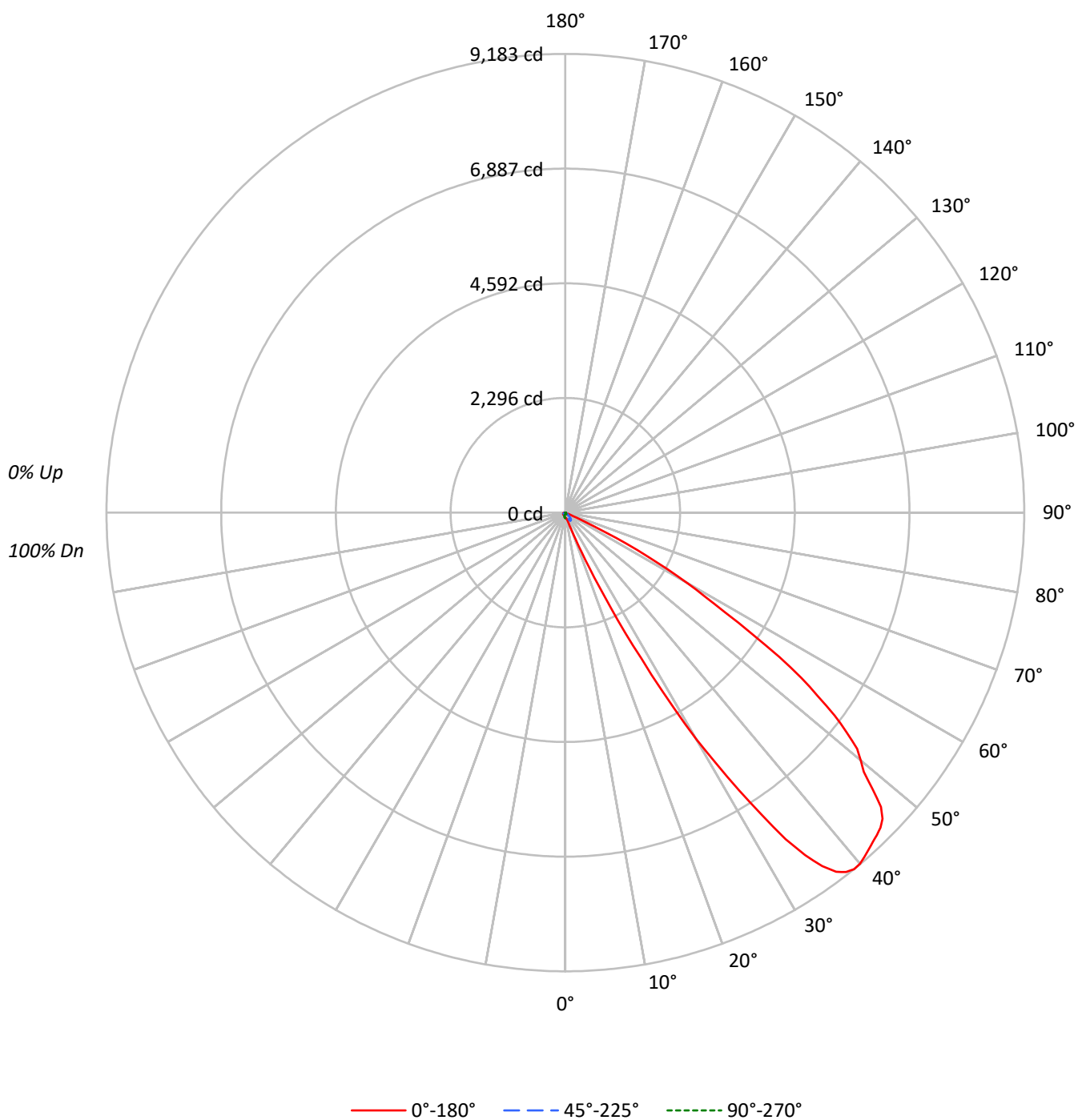
Lumens per Lamp: N/A
Luminaire Lumens: 2287.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1311784

CATALOG NUMBER: P3SQAS24R359050D010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1311784

CATALOG NUMBER: P3SQAS24R359050D010 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	0
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°	18135	18135	18135	18135	18135
5°	19622	19276	17841	16061	15698
10°	20583	18782	15879	13728	13728
15°	29455	18400	12891	11785	12142
20°	73787	19684	10208	10208	11345
25°	342485	25103	7848	9406	10584
30°	1041181	34086	6165	8631	10679
35°	1759646	39505	5214	8242	10407
40°	2062662	38984	4182	8363	11129
45°	2172235	27644	3532	9060	12056
50°	2067649	16585	3322	9404	13263
55°	1732596	6816	3723	10539	15493
60°	969958	1412	4271	12090	17050
65°	167407	856	4197	13448	19357
70°	3122	1057	5187	14552	21854
75°	2728	1397	6854	16502	24754
80°	2083	2083	8232	18447	28663
85°	0	4150	16401	20353	32605

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 2187609 cd/sqm

TEST NUMBER: P1311784

CATALOG NUMBER: P3SQAS24R359050D010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.5	0.4
10°-20°	27.0	1.2
20°-30°	140.3	6.1
30°-40°	606.0	26.5
40°-50°	864.5	37.8
50°-60°	535.4	23.4
60°-70°	81.5	3.6
70°-80°	15.2	0.7
80°-90°	7.6	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°	176.8	7.7
0°-40°	782.8	34.2
0°-60°	2182.7	95.4
0°-90°	2287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2287.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	105	105	105	105	105	
5°	114	112	103	93	91	11
15°	165	103	72	66	68	59
25°	1802	132	41	50	56	1079
35°	8370	188	25	39	50	5025
45°	8919	114	14	37	50	6738
55°	5770	23	12	35	52	4914
65°	411	2	10	33	48	839
75°	4	2	10	25	37	4
85°	0	2	8	10	16	1
90°	0	0	0	0	0	

TEST NUMBER: P1311784

CATALOG NUMBER: P3SQAS24R359050D010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3
2.5°	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	105.3	103.2
5°	113.5	113.5	111.5	111.5	111.5	111.5	111.5	111.5	107.4	103.2	97.0
7.5°	115.6	115.6	113.5	113.5	113.5	113.5	111.5	109.4	105.3	97.0	90.8
10°	117.7	117.7	117.7	117.7	115.6	113.5	111.5	107.4	101.2	90.8	84.6
12.5°	132.1	132.1	130.1	125.9	121.8	117.7	113.5	105.3	92.9	82.6	76.4
15°	165.2	163.1	159.0	152.8	144.5	134.2	125.9	103.2	84.6	72.3	68.1
17.5°	231.2	227.1	220.9	200.3	181.7	163.1	146.6	103.2	76.4	64.0	59.9
20°	402.6	404.6	361.3	311.7	270.5	225.0	183.7	107.4	68.1	55.7	53.7
22.5°	840.3	807.2	704.0	584.3	445.9	344.8	260.1	117.7	59.9	47.5	47.5
25°	1802.3	1676.4	1426.6	1077.7	759.7	538.8	377.8	132.1	53.7	41.3	43.4
27.5°	3290.8	3177.3	2675.6	2015.0	1337.8	813.4	512.0	150.7	47.5	35.1	39.2
30°	5235.6	4921.8	4267.3	3303.2	2235.9	1244.9	687.5	171.4	39.2	31.0	37.2
31°	5842.6	5698.0	4901.1	3821.4	2619.9	1478.2	761.8	177.5	37.2	31.0	35.1
32°	6563.1	6307.1	5592.7	4389.1	3010.1	1686.7	850.6	183.7	35.1	26.8	35.1
33°	7207.2	6959.5	6090.3	4888.8	3404.4	1924.1	945.5	185.8	31.0	26.8	33.0
34°	7884.4	7545.8	6684.9	5411.1	3809.0	2180.1	1032.3	187.9	28.9	24.8	33.0
35°	8369.5	8030.9	7196.9	5824.0	4157.9	2407.2	1131.3	187.9	26.8	24.8	31.0
36°	8745.3	8448.0	7638.7	6249.3	4504.8	2611.6	1209.8	187.9	22.7	22.7	31.0
37°	9003.3	8720.5	7936.0	6614.7	4769.0	2793.3	1280.0	187.9	20.6	22.7	31.0
38°	9129.3	8893.9	8222.9	6881.0	5025.0	2935.7	1335.7	183.7	18.6	20.6	28.9
39°	9182.9	8990.9	8398.4	7106.0	5217.0	3059.6	1377.0	179.6	16.5	20.6	28.9
40°	9174.7	9007.4	8497.5	7260.9	5371.8	3144.2	1399.7	173.4	14.5	18.6	28.9
41°	9127.2	8982.7	8549.1	7393.0	5464.8	3202.1	1405.9	167.2	12.4	18.6	26.8
42°	9073.5	8941.4	8565.6	7463.2	5524.6	3220.6	1389.4	159.0	12.4	16.5	26.8
43°	9017.8	8896.0	8565.6	7485.9	5539.1	3208.2	1362.6	144.5	10.3	16.5	26.8
44°	8972.3	8856.7	8538.8	7479.7	5508.1	3160.8	1313.0	128.0	8.3	16.5	26.8
45°	8918.7	8805.1	8503.7	7440.5	5448.2	3080.2	1251.1	113.5	6.2	14.5	26.8
46°	8823.7	8734.9	8441.8	7360.0	5353.3	2968.8	1172.6	103.2	4.1	14.5	24.8
47°	8640.0	8563.6	8322.0	7240.2	5227.3	2836.6	1092.1	92.9	4.1	14.5	24.8
48°	8270.4	8268.4	8082.5	7017.3	5027.1	2671.5	1007.5	82.6	4.1	14.5	24.8
49°	7913.3	7876.1	7644.9	6625.0	4740.1	2473.3	918.7	74.3	2.1	14.5	24.8
50°	7717.1	7636.6	7256.7	6162.6	4372.6	2198.7	823.7	61.9	2.1	12.4	24.8
51°	7512.7	7397.1	6949.1	5745.5	3935.0	1934.4	720.5	49.5	2.1	12.4	22.7
52°	7143.2	7033.8	6532.1	5347.1	3509.7	1664.0	621.4	41.3	2.1	12.4	24.8
53°	6744.7	6587.8	6042.8	4909.4	3136.0	1424.5	520.3	35.1	2.1	12.4	22.7
54°	6243.1	6172.9	5547.3	4372.6	2698.3	1193.3	427.4	28.9	2.1	12.4	22.7
55°	5770.3	5667.1	5016.8	3823.5	2301.9	978.6	357.2	22.7	2.1	12.4	22.7
56°	5167.5	5012.6	4403.6	3319.7	1899.3	788.6	301.4	18.6	2.1	12.4	22.7
57°	4449.0	4283.9	3802.8	2760.2	1490.6	600.8	251.9	14.5	2.1	12.4	22.7
58°	3763.6	3621.1	3105.0	2130.6	1123.1	417.0	208.5	10.3	2.1	10.3	22.7
59°	3251.6	3094.7	2582.7	1639.2	780.4	307.6	156.9	8.3	2.1	12.4	22.7
60°	2816.0	2613.7	2079.0	1269.7	557.4	220.9	115.6	4.1	4.1	12.4	22.7
62.5°	1622.7	1432.8	993.0	516.1	229.2	113.5	55.7	2.1	4.1	12.4	22.7
65°	410.8	365.4	237.4	111.5	64.0	39.2	20.6	2.1	4.1	10.3	20.6



TEST NUMBER: P1311784

CATALOG NUMBER: P3SQAS24R359050D010 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	12.4	10.3	8.3	4.1	2.1	4.1	10.3	20.6
70°	6.2	6.2	6.2	4.1	4.1	2.1	2.1	2.1	4.1	10.3	18.6
72.5°	4.1	4.1	4.1	4.1	2.1	2.1	2.1	2.1	6.2	10.3	16.5
75°	4.1	4.1	4.1	4.1	2.1	2.1	2.1	2.1	6.2	10.3	16.5
77.5°	4.1	4.1	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	12.4
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	6.2	8.3	10.3
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: P1311784

CATALOG NUMBER: P3SQAS24R359050D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	105.3	105.3	105.3
2.5°	99.1	99.1	99.1
5°	92.9	92.9	90.8
7.5°	86.7	84.6	84.6
10°	78.5	78.5	78.5
12.5°	72.3	72.3	72.3
15°	66.1	68.1	68.1
17.5°	59.9	64.0	64.0
20°	55.7	59.9	61.9
22.5°	51.6	55.7	57.8
25°	49.5	53.7	55.7
27.5°	45.4	51.6	55.7
30°	43.4	49.5	53.7
31°	43.4	49.5	51.6
32°	41.3	49.5	51.6
33°	41.3	49.5	51.6
34°	41.3	47.5	51.6
35°	39.2	47.5	49.5
36°	39.2	47.5	49.5
37°	39.2	47.5	51.6
38°	39.2	47.5	49.5
39°	37.2	47.5	49.5
40°	37.2	47.5	49.5
41°	37.2	47.5	49.5
42°	37.2	47.5	49.5
43°	37.2	47.5	49.5
44°	37.2	45.4	49.5
45°	37.2	45.4	49.5
46°	37.2	47.5	49.5
47°	37.2	47.5	51.6
48°	37.2	45.4	49.5
49°	35.1	45.4	49.5
50°	35.1	45.4	49.5
51°	35.1	47.5	51.6
52°	35.1	47.5	51.6
53°	35.1	47.5	51.6
54°	35.1	47.5	49.5
55°	35.1	47.5	51.6
56°	35.1	47.5	49.5
57°	35.1	47.5	49.5
58°	35.1	45.4	49.5
59°	35.1	45.4	49.5
60°	35.1	45.4	49.5
62.5°	33.0	45.4	49.5
65°	33.0	43.4	47.5



TEST NUMBER: P1311784

CATALOG NUMBER: P3SQAS24R359050D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	31.0	43.4	45.4
70°	28.9	41.3	43.4
72.5°	26.8	39.2	41.3
75°	24.8	35.1	37.2
77.5°	20.6	31.0	35.1
80°	18.6	26.8	28.9
82.5°	14.5	22.7	24.8
85°	10.3	16.5	16.5
87.5°	4.1	8.3	8.3
90°	0.0	0.0	0.0

(END OF REPORT)