

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: P1310751

Luminaire Tested: P3SQAS24R559040D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310751
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: P3SQAS24R559040D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

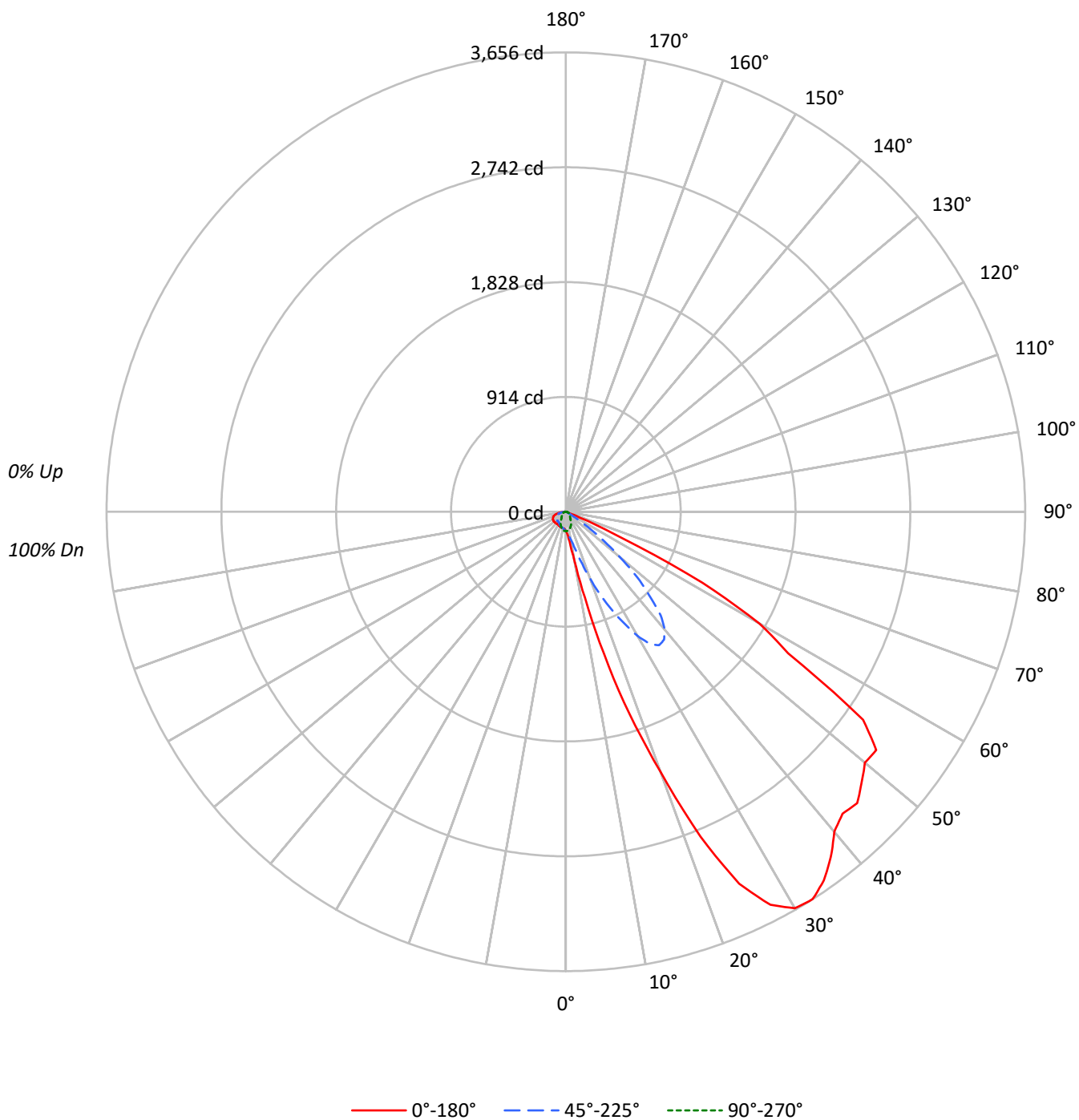
Lumens per Lamp: N/A
Luminaire Lumens: 2351.0 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1310751

CATALOG NUMBER: P3SQAS24R559040D010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1310751

CATALOG NUMBER: P3SQAS24R559040D010 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°	26109	26109	26109	26109	26109
5°	33401	30531	26209	24428	23702
10°	67923	38876	25427	23241	23241
15°	208520	59623	23696	22590	23339
20°	403169	104320	21315	22085	23221
25°	620513	162226	18547	21321	23297
30°	724567	226786	15293	21060	23963
35°	752929	272520	12657	20961	24893
40°	747214	275068	11668	21942	27091
45°	798875	227680	11131	23771	29349
50°	832622	150282	11119	25614	32848
55°	866974	65487	11230	28074	36181
60°	612458	15018	11436	30759	40782
65°	199763	5094	11003	33009	45723
70°	6294	5237	11481	35550	52318
75°	5523	5523	9649	37330	58024
80°	4166	6149	10315	37093	61789
85°	4150	8299	12251	36952	61652

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 880915 cd/sqm

TEST NUMBER: P1310751

CATALOG NUMBER: P3SQAS24R559040D010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.1	0.7
10°-20°	99.8	4.2
20°-30°	334.6	14.2
30°-40°	549.5	23.4
40°-50°	612.9	26.1
50°-60°	515.9	21.9
60°-70°	175.0	7.4
70°-80°	34.2	1.5
80°-90°	12.8	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°	450.5	19.2
0°-40°	1000.1	42.5
0°-60°	2128.9	90.6
0°-90°	2351.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2351.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	152	152	152	152	152	
5°	193	177	152	141	137	24
15°	1170	334	133	127	131	371
25°	3265	854	98	112	123	1468
35°	3581	1296	60	100	118	2224
45°	3280	935	46	98	120	2505
55°	2887	218	37	94	120	2351
65°	490	12	27	81	112	664
75°	8	8	14	56	87	9
85°	2	4	6	19	31	3
90°	0	0	0	0	0	

TEST NUMBER: P1310751

CATALOG NUMBER: P3SQAS24R559040D010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6	151.6
2.5°	166.2	166.2	166.2	166.2	166.2	166.2	164.1	157.9	153.7	147.5	145.4
5°	193.2	193.2	193.2	191.1	191.1	187.0	176.6	162.0	151.6	143.3	141.3
7.5°	249.3	247.2	243.0	241.0	234.7	232.7	195.3	166.2	149.6	139.2	137.1
10°	388.4	384.3	378.1	355.2	334.4	319.9	222.3	168.3	145.4	135.0	132.9
12.5°	700.0	691.7	660.6	612.8	554.6	525.5	265.9	170.3	139.2	130.9	130.9
15°	1169.5	1159.1	1100.9	1034.5	928.5	870.4	334.4	168.3	132.9	124.6	126.7
17.5°	1688.8	1659.7	1599.5	1512.2	1368.9	1300.4	436.2	164.1	124.6	120.5	124.6
20°	2199.8	2191.5	2091.8	1973.4	1796.8	1705.4	569.2	157.9	116.3	114.2	120.5
22.5°	2798.1	2762.7	2656.8	2530.1	2287.1	2166.6	712.5	149.6	108.0	108.0	116.3
25°	3265.4	3223.9	3140.8	2993.3	2762.7	2634.0	853.7	139.2	97.6	101.8	112.2
27.5°	3527.2	3479.4	3417.1	3290.4	3111.7	2997.5	995.0	126.7	87.2	95.6	108.0
30°	3643.5	3631.0	3585.3	3491.9	3327.8	3226.0	1140.4	112.2	76.9	89.3	105.9
32.5°	3656.0	3662.2	3643.5	3583.3	3458.6	3371.4	1248.4	99.7	68.5	85.2	101.8
35°	3581.2	3604.0	3616.5	3591.6	3510.6	3439.9	1296.2	85.2	60.2	81.0	99.7
37.5°	3464.9	3506.4	3547.9	3554.2	3504.3	3458.6	1283.7	72.7	56.1	78.9	99.7
40°	3323.6	3361.0	3446.2	3500.2	3483.5	3450.3	1223.5	60.2	51.9	74.8	97.6
42.5°	3259.2	3267.5	3358.9	3450.3	3446.2	3419.2	1117.6	47.8	47.8	74.8	97.6
45°	3280.0	3242.6	3302.8	3408.8	3402.5	3367.2	934.8	37.4	45.7	72.7	97.6
47.5°	3192.7	3140.8	3242.6	3367.2	3344.4	3292.4	772.7	27.0	43.6	70.6	95.6
50°	3107.6	3099.3	3178.2	3240.5	3209.4	3180.3	560.9	20.8	41.5	68.5	95.6
52.5°	3113.8	3099.3	3107.6	3105.5	3043.2	3012.0	384.3	16.6	39.5	66.5	95.6
55°	2887.4	2841.7	2798.1	2810.5	2814.7	2793.9	218.1	14.5	37.4	66.5	93.5
57.5°	2098.0	2085.6	2133.3	2268.4	2374.3	2386.8	105.9	14.5	35.3	64.4	91.4
60°	1778.1	1769.8	1771.9	1811.4	1867.4	1832.1	43.6	14.5	33.2	62.3	89.3
62.5°	1225.6	1306.6	1339.8	1431.2	1393.8	1344.0	16.6	16.6	31.2	58.2	87.2
65°	490.2	488.2	533.9	577.5	565.0	527.6	12.5	14.5	27.0	54.0	81.0
67.5°	114.2	103.9	89.3	76.9	64.4	51.9	12.5	14.5	24.9	49.9	76.9
70°	12.5	12.5	12.5	12.5	12.5	10.4	10.4	14.5	22.8	45.7	70.6
72.5°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	12.5	18.7	39.5	64.4
75°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	10.4	14.5	33.2	56.1
77.5°	6.2	6.2	6.2	8.3	6.2	8.3	8.3	10.4	12.5	27.0	47.8
80°	4.2	4.2	6.2	6.2	6.2	6.2	6.2	8.3	10.4	22.8	37.4
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	6.2	6.2	8.3	16.6	27.0
85°	2.1	2.1	2.1	2.1	2.1	4.2	4.2	6.2	6.2	12.5	18.7
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	6.2	6.2	8.3
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: P1310751

CATALOG NUMBER: P3SQAS24R559040D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	151.6	151.6
2.5°	143.3	143.3
5°	139.2	137.1
7.5°	135.0	135.0
10°	132.9	132.9
12.5°	130.9	132.9
15°	130.9	130.9
17.5°	126.7	128.8
20°	124.6	126.7
22.5°	122.6	124.6
25°	120.5	122.6
27.5°	118.4	120.5
30°	116.3	120.5
32.5°	114.2	118.4
35°	114.2	118.4
37.5°	114.2	120.5
40°	114.2	120.5
42.5°	114.2	120.5
45°	114.2	120.5
47.5°	114.2	120.5
50°	114.2	122.6
52.5°	114.2	122.6
55°	114.2	120.5
57.5°	112.2	120.5
60°	112.2	118.4
62.5°	110.1	116.3
65°	105.9	112.2
67.5°	101.8	110.1
70°	95.6	103.9
72.5°	89.3	95.6
75°	81.0	87.2
77.5°	70.6	74.8
80°	56.1	62.3
82.5°	43.6	47.8
85°	29.1	31.2
87.5°	12.5	14.5
90°	0.0	0.0

(END OF REPORT)