

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1250257

Luminaire Tested: P3A24R209027D010 E3D1LI

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1250257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2501-338-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A24R209027D010 E3D1LI
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , E3D1LI TRIM
Light Source: -
Ballast/Driver: -

Summary

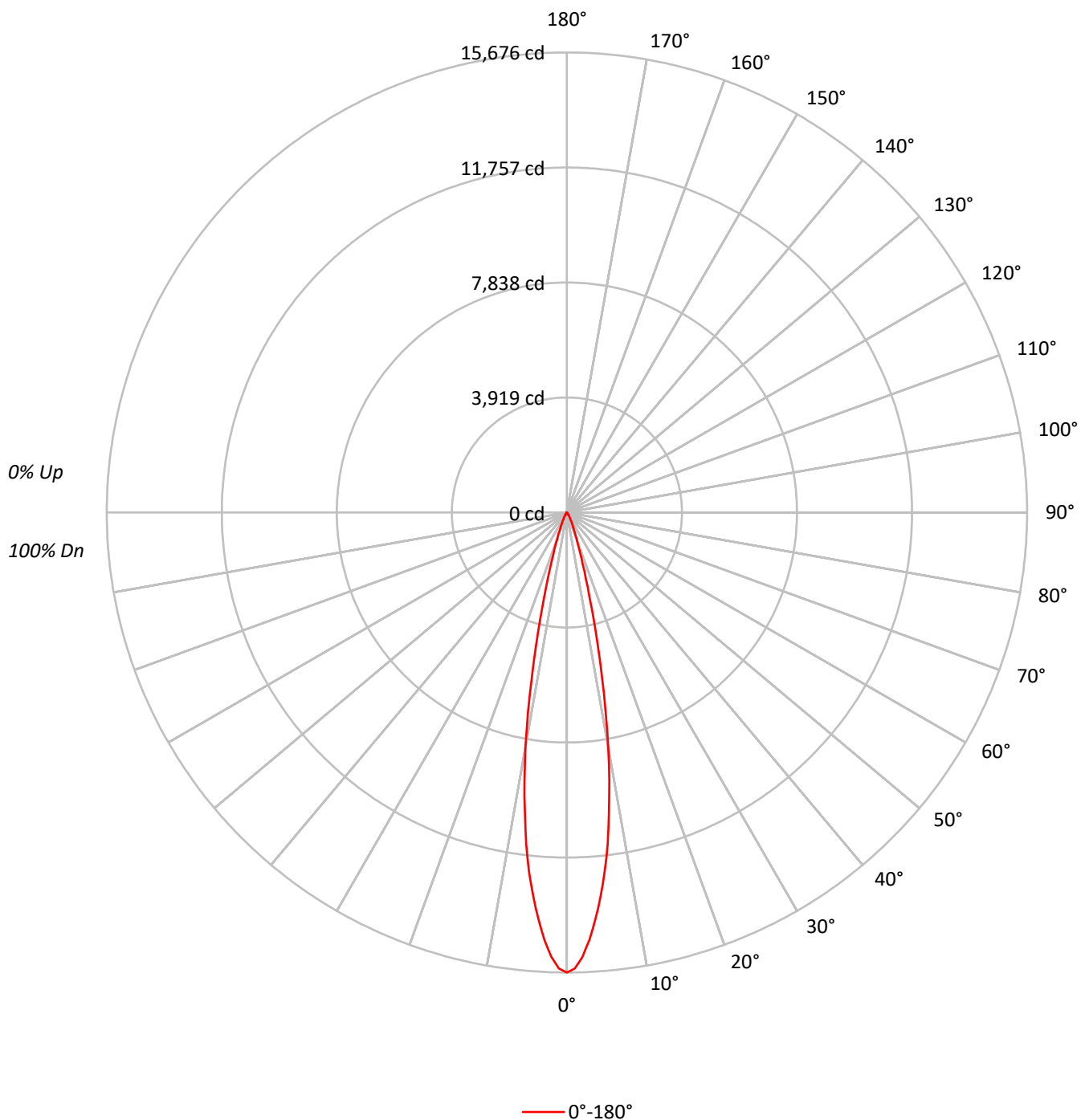
Lumens per Lamp: N/A
Luminaire Lumens: 2266.0 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 0.35 / 0.35 / 0.34
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1250257

CATALOG NUMBER: P3A24R209027D010 E3D1LI

Luminous Intensity Polar Plot



TEST NUMBER: P1250257

CATALOG NUMBER: P3A24R209027D010 E3D1LI

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	114	112	110	113	111	110	108	107	106	105		104	103	102		100
2	112	109	106	104	110	107	105	103	104	102	101		101	100	98		99
3	109	105	102	99	107	104	101	98	101	99	97		99	97	95		97
4	106	101	98	95	105	100	97	95	99	96	94		97	95	93		95
5	104	98	95	92	102	98	94	92	96	93	91		95	92	90		93
6	101	96	92	89	100	95	92	89	94	91	89		93	90	88		92
7	99	93	90	87	98	93	89	87	92	89	86		91	88	86		90
8	97	91	87	85	96	91	87	85	90	87	85		89	86	84		88
9	95	89	85	83	94	89	85	83	88	85	83		87	84	83		87
10	93	87	84	81	92	87	83	81	86	83	81		86	83	81		85

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3437334
5°	2894071
10°	1807626
15°	675804
20°	231977
25°	96683
30°	45551
35°	20398
40°	9647
45°	4931
50°	1808
55°	344
60°	395
65°	467
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4931 cd/sqm

TEST NUMBER: P1250257

CATALOG NUMBER: P3A24R209027D010 E3D1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1093.4	48.3
10°-20°	900.6	39.7
20°-30°	204.7	9.0
30°-40°	52.1	2.3
40°-50°	13.1	0.6
50°-60°	1.7	0.1
60°-70°	0.6	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	2198.6	97.0
0°-40°	2250.7	99.3
0°-60°	2265.5	100.0
0°-90°	2266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2266.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15676	
5°	13148	###
15°	2977	901
25°	400	205
35°	76	52
45°	16	13
55°	1	2
65°	1	1
75°	0	0
85°	0	0
90°	0	

TEST NUMBER: P1250257

CATALOG NUMBER: P3A24R209027D010 E3D1LI

CANDELA DISTRIBUTION (FULL):

0°	
0°	15675.5
1°	15542.6
2°	15151.0
3°	14589.3
4°	13900.0
5°	13147.8
6°	12309.7
7°	11384.8
8°	10305.6
9°	9236.3
10°	8118.2
11°	6928.3
12°	5740.2
13°	4733.8
14°	3771.6
15°	2976.9
16°	2349.6
17°	1853.5
18°	1489.3
19°	1211.1
20°	994.1
21°	831.0
22°	693.7
23°	576.8
24°	481.1
25°	399.6
27.5°	261.4
30°	179.9
32.5°	110.7
35°	76.2
37.5°	48.7
40°	33.7
42.5°	23.0
45°	15.9
47.5°	10.6
50°	5.3
52.5°	2.7
55°	0.9
57.5°	0.9
60°	0.9
62.5°	0.9
65°	0.9
67.5°	0.0
70°	0.0
72.5°	0.0



TEST NUMBER: P1250257

CATALOG NUMBER: P3A24R209027D010 E3D1LI

CANDELA DISTRIBUTION (continued):

	0°
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

IRiS

Report Number: SP1-2508-518-1

Test Date: 09/09/2025

Luminaire Tested: LD3A24R159027D010 E3D1LI

Data in this report applies to families of products including LD3A24R159027D010 E3D1LI

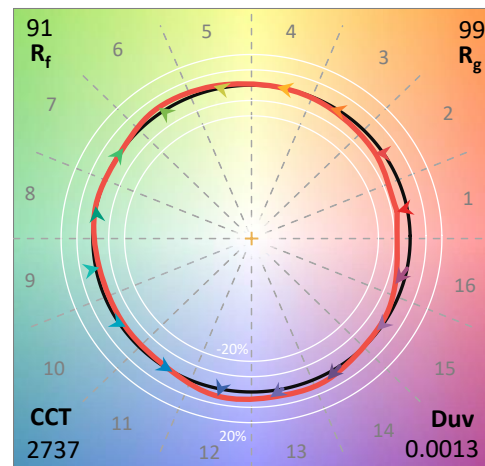
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2508-518-1
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 09/16/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: IRiS
 Catalog Number: **LD3A24R159027D010 E3D1LI**
 Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3D1LI TRIM

Spectral Parameters

CCT (K): 2737
 CIE u' : 0.2605
 CIE v' : 0.5285
 Duv: 0.0013
 CIE x: 0.4590
 CIE y: 0.4138
 CIE z: 0.1272
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 583
 Purity: 62.00127
 R_f: 90.8
 R_g: 99.1

CRI (Ra): 91.4
 R1: 92.1
 R2: 95.0
 R3: 97.1
 R4: 93.2
 R5: 91.6
 R6: 95.8
 R7: 90.2
 R8: 76.6
 R9: 46.0
 R10: 87.1
 R11: 94.9
 R12: 83.0
 R13: 92.7
 R14: 97.1
 R15: 85.9



Test Conditions

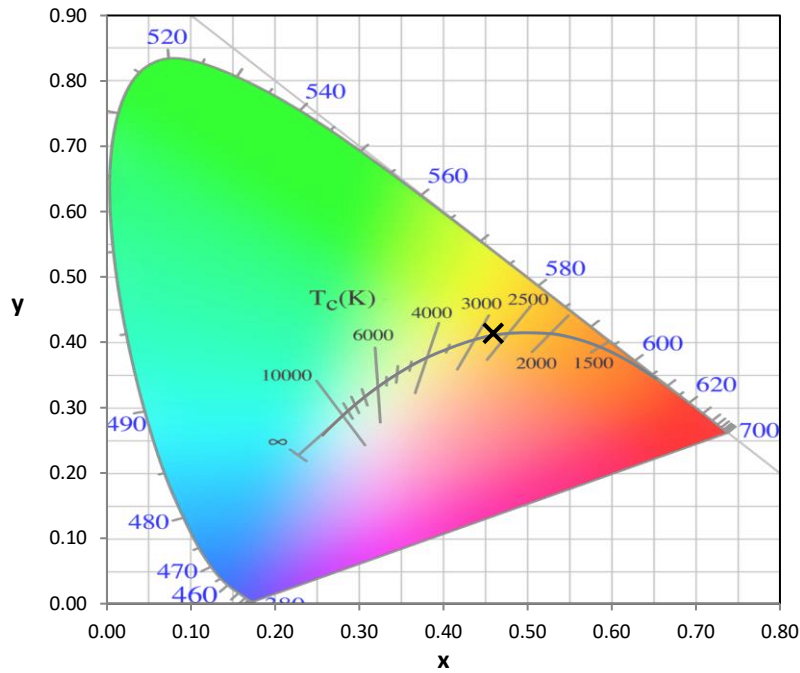
Stabilization Time: 70M
 Operation Time: 2H 10M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2508-518-1

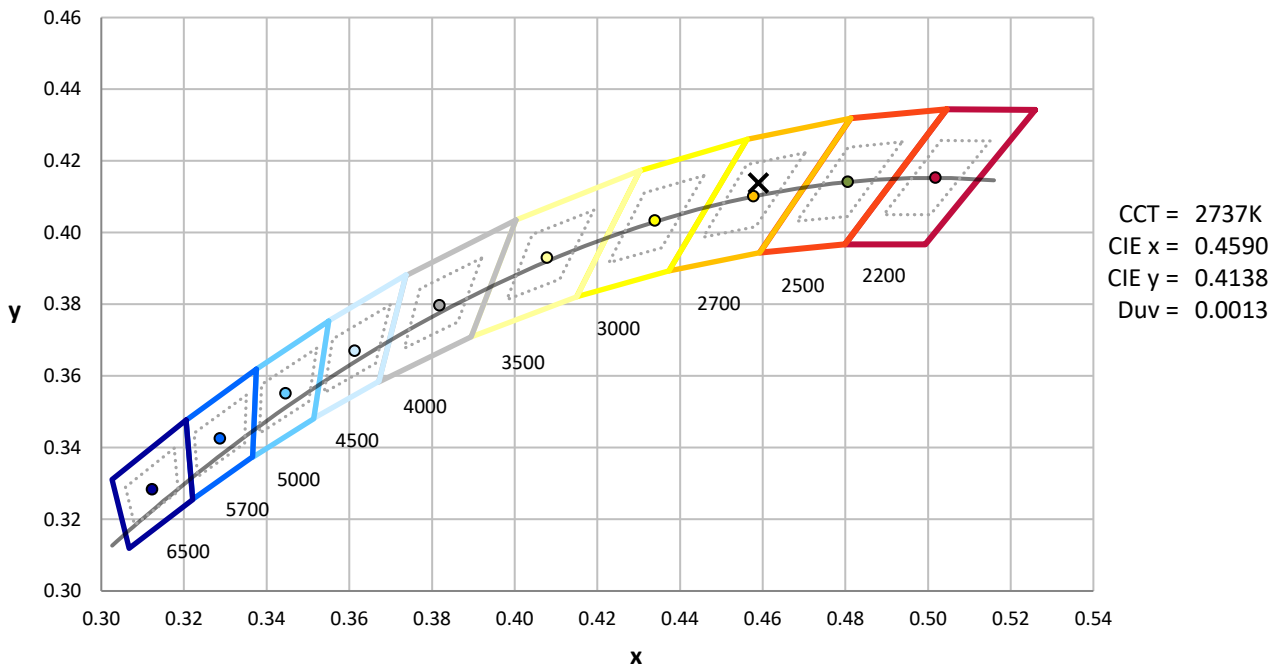
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	10/22/2024	10/22/2025
Sphere Thermometer	ONSET IN0085	10/22/2024	10/22/2025
Room Thermometer	ONSET IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2508-518-1

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

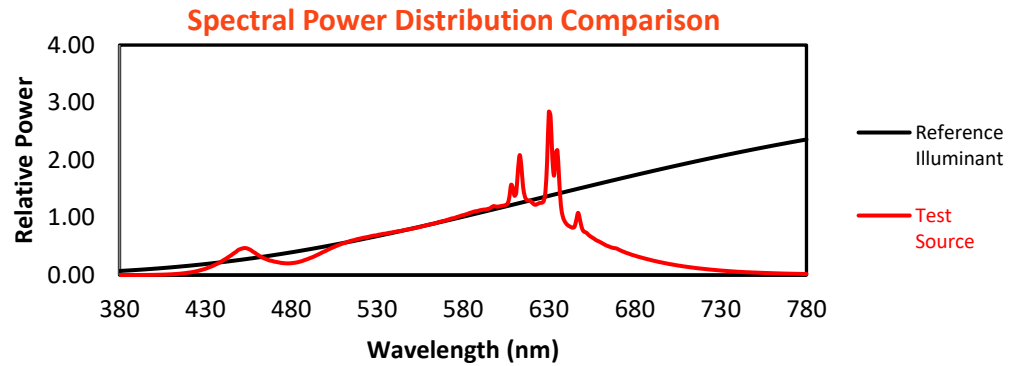


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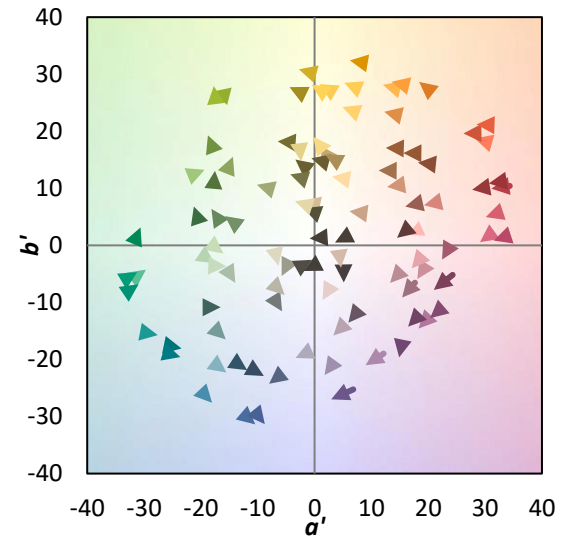
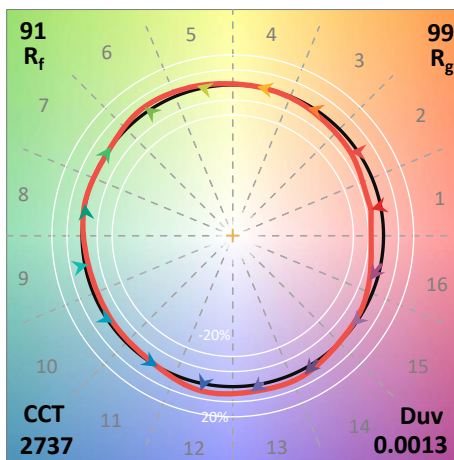
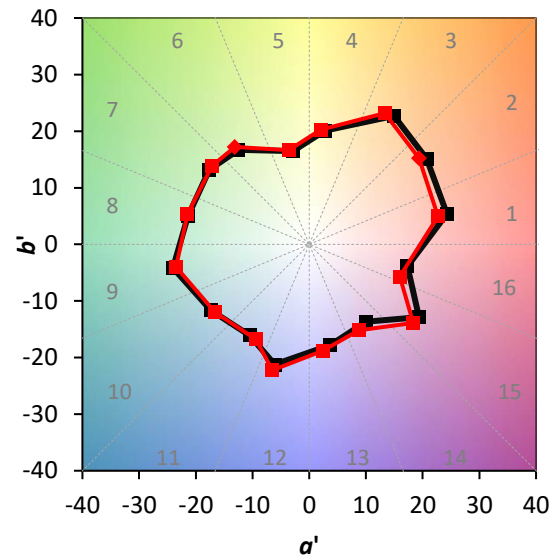
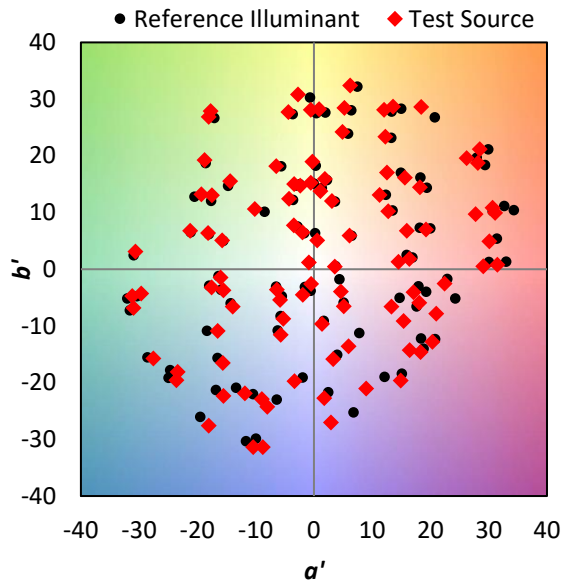
TM-30-18

Summary

$R_f = 90.8$
 $R_g = 99.1$
 $CIE R_a = 91.4$
 $R_9 = 46.0$

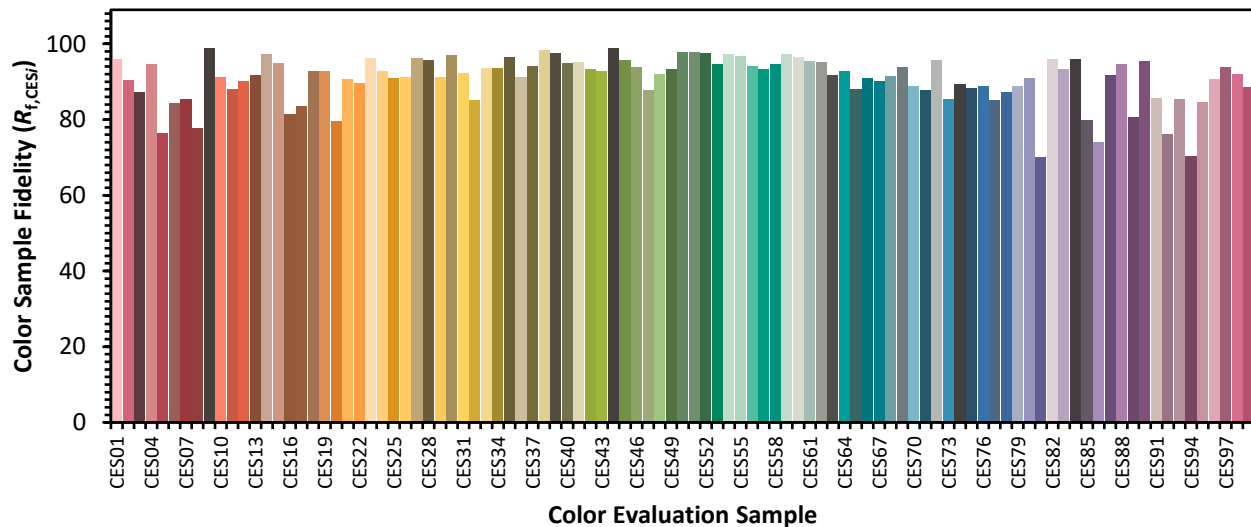


Color Vector Graphics

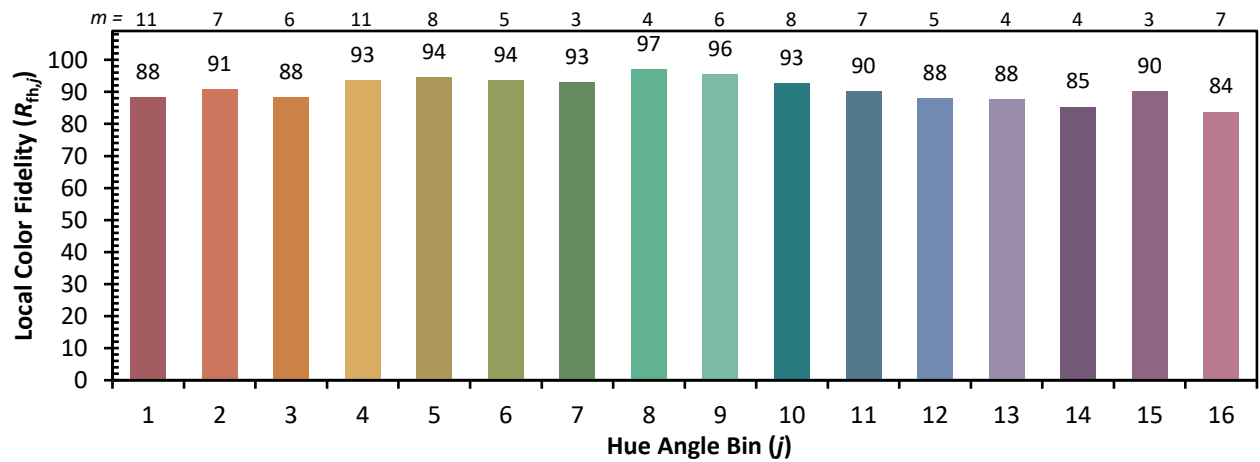
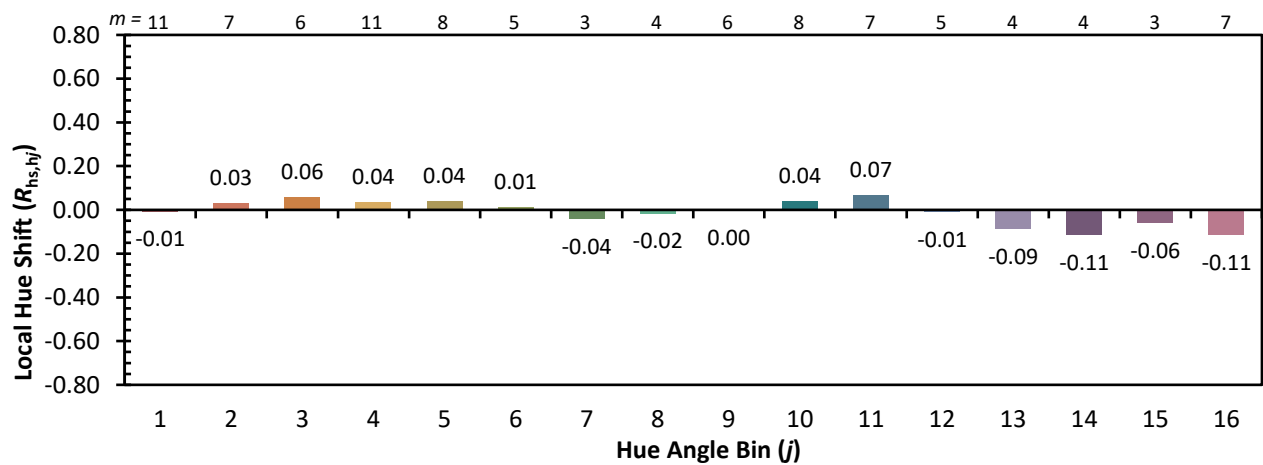
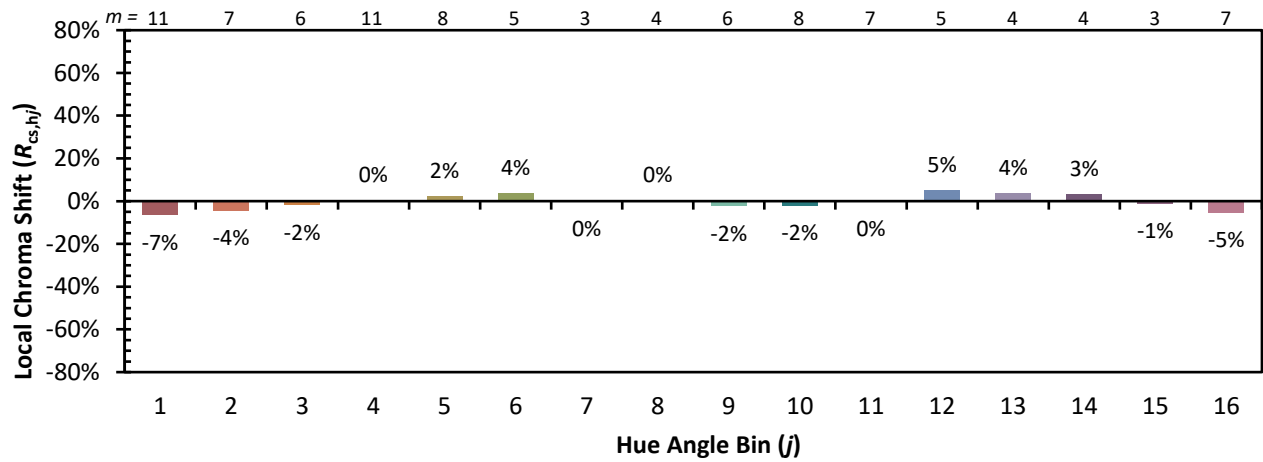


Individual Sample Fidelity Index ($R_{f,i}$)

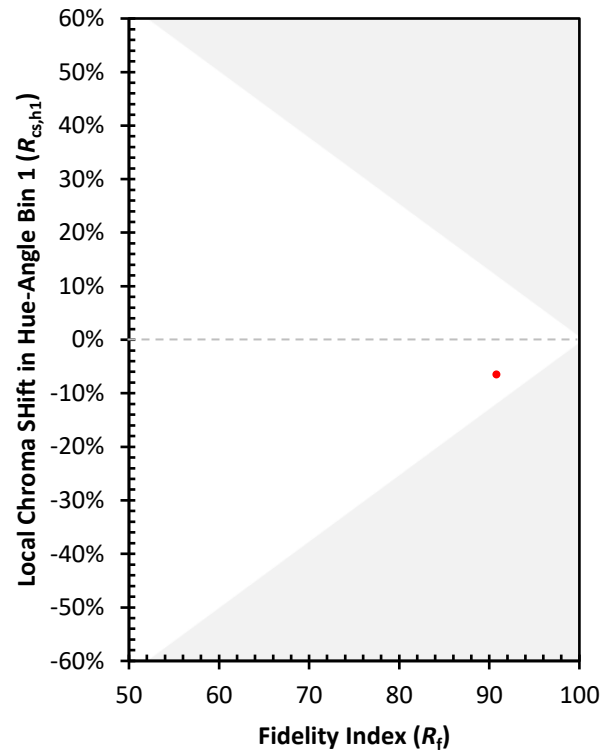
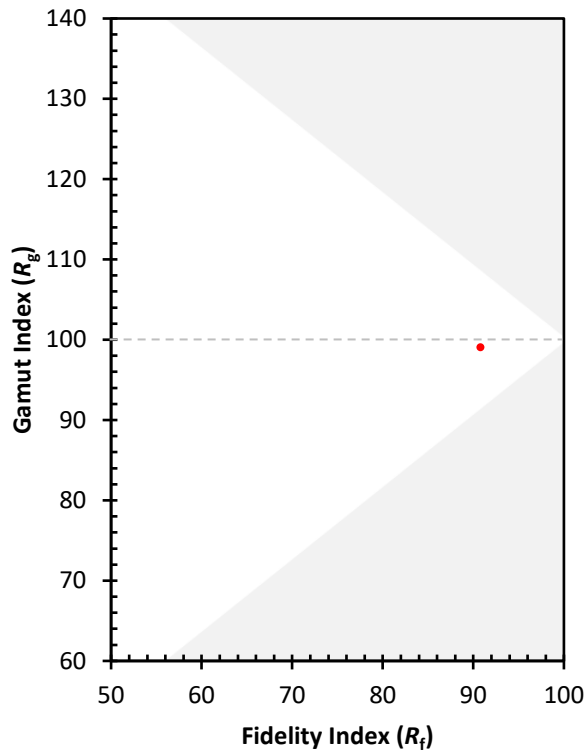
CES01 = 86	CES26 = 91	CES51 = 98	CES76 = 89
CES02 = 64	CES27 = 96	CES52 = 98	CES77 = 85
CES03 = 32	CES28 = 96	CES53 = 95	CES78 = 87
CES04 = 71	CES29 = 91	CES54 = 97	CES79 = 89
CES05 = 51	CES30 = 97	CES55 = 97	CES80 = 91
CES06 = 51	CES31 = 92	CES56 = 94	CES81 = 70
CES07 = 44	CES32 = 85	CES57 = 93	CES82 = 96
CES08 = 42	CES33 = 94	CES58 = 95	CES83 = 93
CES09 = 29	CES34 = 94	CES59 = 97	CES84 = 96
CES10 = 77	CES35 = 97	CES60 = 97	CES85 = 80
CES11 = 59	CES36 = 91	CES61 = 95	CES86 = 74
CES12 = 66	CES37 = 94	CES62 = 95	CES87 = 92
CES13 = 44	CES38 = 98	CES63 = 92	CES88 = 95
CES14 = 74	CES39 = 97	CES64 = 93	CES89 = 81
CES15 = 72	CES40 = 95	CES65 = 88	CES90 = 96
CES16 = 48	CES41 = 95	CES66 = 91	CES91 = 86
CES17 = 50	CES42 = 93	CES67 = 90	CES92 = 76
CES18 = 57	CES43 = 93	CES68 = 92	CES93 = 85
CES19 = 72	CES44 = 99	CES69 = 94	CES94 = 70
CES20 = 68	CES45 = 96	CES70 = 89	CES95 = 85
CES21 = 87	CES46 = 94	CES71 = 88	CES96 = 91
CES22 = 79	CES47 = 88	CES72 = 96	CES97 = 94
CES23 = 92	CES48 = 92	CES73 = 85	CES98 = 92
CES24 = 91	CES49 = 93	CES74 = 89	CES99 = 89
CES25 = 72	CES50 = 98	CES75 = 88	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)