

Signify Classified - Internal  
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: CORELITE

Report Number: P959024

Luminaire Tested: CB3-B-055U-120D-830-1D-UNV-STD-W-4

Issue Date: 2/12/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P959024  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-119-2, G2-2312-242-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/12/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB3-B-055U-120D-830-1D-UNV-STD-W-4  
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT  
3-INCH APERTURE  
DOWNLIGHT 1200 LUMENS PER FOOT  
UPLIGHT 550 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

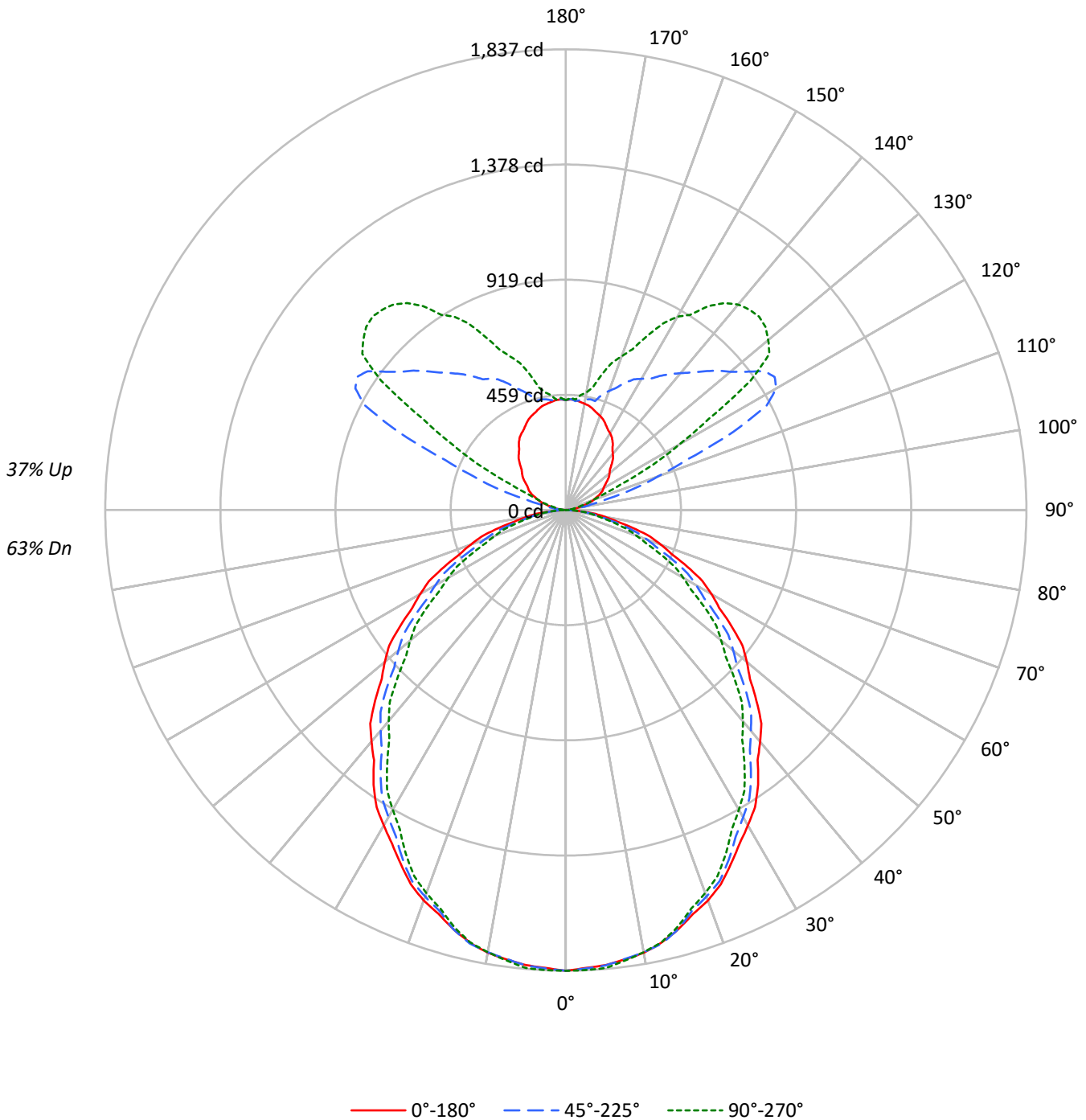
Lumens per Lamp: N/A  
Luminaire Lumens: 6975.9 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 0.24' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 54.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P959024  
CATALOG NUMBER: CB3-B-055U-120D-830-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P959024

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**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	0
RCR																					
0	110	110	110	110	103	103	103	103	91	91	91	79	79	79	68	68	68	68	68	68	63
1	101	97	93	89	95	91	87	84	80	77	75	70	68	66	61	59	58	61	59	58	54
2	92	85	78	73	86	80	74	70	70	66	62	62	58	56	54	51	49	54	51	49	45
3	84	75	67	61	79	70	64	58	62	57	53	55	51	47	48	45	42	48	45	42	39
4	77	66	58	52	72	63	55	50	55	50	45	49	44	41	43	39	36	43	39	36	33
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	39	35	32	39	35	32	29
6	66	53	45	39	61	50	43	38	45	39	34	40	35	31	35	31	28	35	31	28	26
7	61	48	40	35	57	46	38	33	41	35	30	36	31	28	32	28	25	32	28	25	23
8	56	44	36	31	53	42	35	30	37	31	27	33	29	25	30	26	23	30	26	23	20
9	53	40	33	28	49	38	31	27	34	29	24	31	26	23	27	23	21	27	23	21	18
10	49	37	30	25	46	35	28	24	32	26	22	29	24	20	25	22	19	25	22	19	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	20786	20786	20786
5°	20688	20703	20821
10°	20598	20568	20568
15°	20281	20281	20159
20°	19953	19748	19576
25°	19449	19205	18862
30°	18973	18479	18036
35°	18473	17788	17158
40°	17807	16959	16226
45°	17203	16222	15220
50°	16583	15342	14240
55°	15907	14491	13307
60°	15177	13611	12254
65°	14323	12610	11143
70°	13339	11440	9928
75°	12092	10037	8839
80°	10543	8418	7819
85°	8127	7114	7114

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17203 cd/sqm



TEST NUMBER: P959024

CATALOG NUMBER: CB3-B-055U-120D-830-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.3	2.5
10°-20°	487.0	7.0
20°-30°	707.5	10.1
30°-40°	804.4	11.5
40°-50°	780.9	11.2
50°-60°	659.3	9.5
60°-70°	469.1	6.7
70°-80°	250.6	3.6
80°-90°	66.2	0.9
90°-100°	29.6	0.4
100°-110°	155.3	2.2
110°-120°	390.9	5.6
120°-130°	603.1	8.6
130°-140°	552.1	7.9
140°-150°	407.5	5.8
150°-160°	259.7	3.7
160°-170°	136.7	2.0
170°-180°	42.6	0.6
0°-30°	1367.8	19.6
0°-40°	2172.2	31.1
0°-60°	3612.4	51.8
0°-90°	4398.3	63.1
90°-120°	575.9	8.3
90°-150°	2138.5	30.7
90°-180°	2578.0	37.0
0°-180°	6975.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1837	1837	1837	1837	1837	
5°	1822	1844	1823	1820	1833	173
15°	1731	1747	1731	1721	1721	488
25°	1558	1563	1538	1517	1511	718
35°	1337	1325	1288	1250	1242	833
45°	1075	1059	1014	965	951	829
55°	806	785	735	687	675	721
65°	535	516	471	429	416	530
75°	277	261	230	206	202	295
85°	63	58	55	55	55	74
90°	0	0	0	0	0	3
95°	15	44	17	10	10	20
105°	79	245	178	73	60	85
115°	151	307	738	321	243	147
125°	201	310	965	973	900	180
135°	259	346	782	1066	1091	200
145°	326	377	652	907	992	203
155°	376	405	560	693	764	174
165°	417	428	450	526	562	118
175°	440	450	436	438	442	42
180°	438	438	438	438	438	



TEST NUMBER: P959024

CATALOG NUMBER: CB3-B-055U-120D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1837.1	1837.1	1837.1	1837.1	1837.1
2.5°	1827.7	1846.1	1829.8	1832.0	1836.1
5°	1821.5	1844.4	1822.8	1820.5	1833.2
7.5°	1807.4	1828.3	1805.8	1800.6	1812.1
10°	1792.8	1815.7	1790.2	1783.8	1790.2
12.5°	1766.7	1790.7	1770.3	1759.8	1765.1
15°	1731.4	1746.8	1731.4	1721.0	1721.0
17.5°	1688.4	1704.5	1675.6	1668.2	1665.4
20°	1657.1	1671.1	1640.1	1629.6	1625.8
22.5°	1615.3	1628.3	1602.5	1584.7	1579.8
25°	1557.9	1563.0	1538.3	1517.3	1510.9
27.5°	1500.2	1501.5	1467.6	1442.1	1433.7
30°	1452.2	1453.5	1414.4	1386.8	1380.5
32.5°	1404.2	1400.4	1363.2	1330.5	1326.2
35°	1337.4	1324.6	1287.8	1249.8	1242.2
37.5°	1256.8	1249.1	1205.6	1167.5	1156.0
40°	1205.6	1192.9	1148.2	1110.1	1098.6
42.5°	1154.5	1139.7	1093.9	1051.6	1039.1
45°	1075.1	1058.6	1013.8	965.2	951.2
47.5°	995.3	977.2	928.0	880.9	865.3
50°	942.1	922.9	871.6	825.6	809.0
52.5°	887.8	867.6	816.3	769.3	755.7
55°	806.4	784.7	734.6	687.3	674.6
57.5°	724.9	703.5	653.7	609.0	593.7
60°	670.7	650.2	601.5	556.8	541.5
62.5°	615.3	595.9	548.3	504.6	490.3
65°	535.0	515.8	471.0	429.0	416.2
67.5°	455.4	439.0	394.8	356.2	346.0
70°	403.2	387.9	345.8	310.3	300.1
72.5°	353.1	336.7	296.7	266.5	259.4
75°	276.6	261.3	229.6	206.1	202.2
77.5°	206.7	194.2	166.8	153.4	151.4
80°	161.8	150.3	129.2	120.0	120.0
82.5°	120.0	110.6	96.8	92.9	92.9
85°	62.6	57.5	54.8	54.8	54.8
87.5°	18.8	18.8	17.7	16.7	16.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.6	10.7	3.1	1.6	3.1
95°	15.4	43.8	17.4	9.7	9.7
97.5°	32.0	97.7	44.8	23.9	21.6
100°	44.4	138.8	69.5	34.7	30.9
102.5°	58.3	179.9	105.0	46.9	40.2
105°	79.2	245.3	177.6	73.1	59.8
107.5°	102.3	289.9	292.7	112.6	90.7
110°	117.8	308.4	390.0	147.9	113.9

TEST NUMBER: P959024

CATALOG NUMBER: CB3-B-055U-120D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	131.7	313.2	519.7	201.7	155.6
115°	150.6	307.3	737.5	320.6	243.2
117.5°	164.5	292.5	902.7	510.1	393.4
120°	173.7	292.7	969.1	653.4	523.2
122.5°	184.6	294.4	987.6	795.7	676.1
125°	200.8	310.3	965.3	973.2	899.6
127.5°	217.0	321.9	905.0	1046.2	1023.2
130°	227.8	329.7	857.1	1071.0	1054.1
132.5°	238.6	337.5	823.2	1071.6	1080.3
135°	258.7	345.5	781.9	1066.2	1090.7
137.5°	279.2	355.4	743.2	1032.4	1083.4
140°	291.5	363.2	712.4	995.9	1069.5
142.5°	305.4	369.6	683.0	962.0	1040.2
145°	326.3	377.2	652.5	907.3	992.3
147.5°	342.5	381.4	618.1	852.2	922.4
150°	353.3	381.6	604.2	803.1	890.0
152.5°	362.5	389.4	587.3	758.2	837.5
155°	376.4	404.8	559.8	692.8	764.5
157.5°	390.3	417.5	527.4	644.0	692.7
160°	399.6	422.3	505.8	620.4	652.5
162.5°	407.3	427.0	482.6	580.4	617.0
165°	417.0	428.3	449.8	525.9	561.8
167.5°	425.9	431.5	452.5	472.5	501.5
170°	430.5	436.2	447.9	467.4	476.8
172.5°	435.1	443.8	441.7	455.0	462.9
175°	440.2	449.6	436.3	438.3	442.1
177.5°	441.3	445.8	442.9	443.0	447.5
180°	438.2	438.2	438.2	438.2	438.2

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

Report Prepared for

Cooper Lighting Solutions

CORELITE

Report Number: SP1-2312-242-1

Test Date: 01/31/2024

Luminaire Tested: CB2-055U055D-830-1D-UNV-STD-D-W-4

Data in this report applies to families of products including CB2-055U055D-830-1D-UNV-STD-D-W-4.



**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2312-242-1  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry: 4π  
 Issue Date: 01/31/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: CORELITE  
 Catalog Number: **CB2-055U055D-830-1D-UNV-STD-D-W-4**  
 Description: CORELITE BASIC 2-INCH SUSPENDED LED LUMINAIRE. 550 LUMENS PER FOOT UPLIGHT, 550 LUMENS PER FOOT DOWNLIGHT

UPLIGHT, 550 LUMENS PER FOOT DOWNLIGHT

**Spectral Parameters**

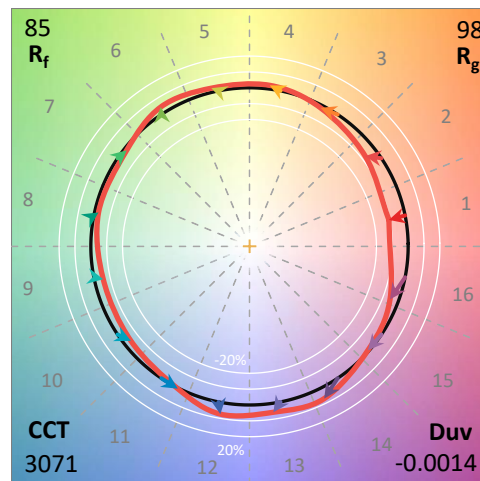
CCT (K): 3071  
 CIE u': 0.2486  
 CIE v': 0.5180  
 Duv: -0.0014  
 CIE x: 0.4300  
 CIE y: 0.3983  
 CIE z: 0.1717  
 Peak Wavelength (nm): 603  
 Dominant Wavelength (nm): 583  
 Purity: 48.7

CRI (Ra):	83.9		
R1:	82.7	R9:	12.3
R2:	91.6	R10:	81.0
R3:	96.5	R11:	83.0
R4:	82.7	R12:	73.2
R5:	83.1	R13:	84.9
R6:	89.9	R14:	98.7
R7:	83.5		
R8:	61.5		

Rf: 85.3  
 Rg: 97.6

**Test Conditions**

Stabilization Time: 26M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 25.8/25%  
 Sphere Temperature (°C): 25.2

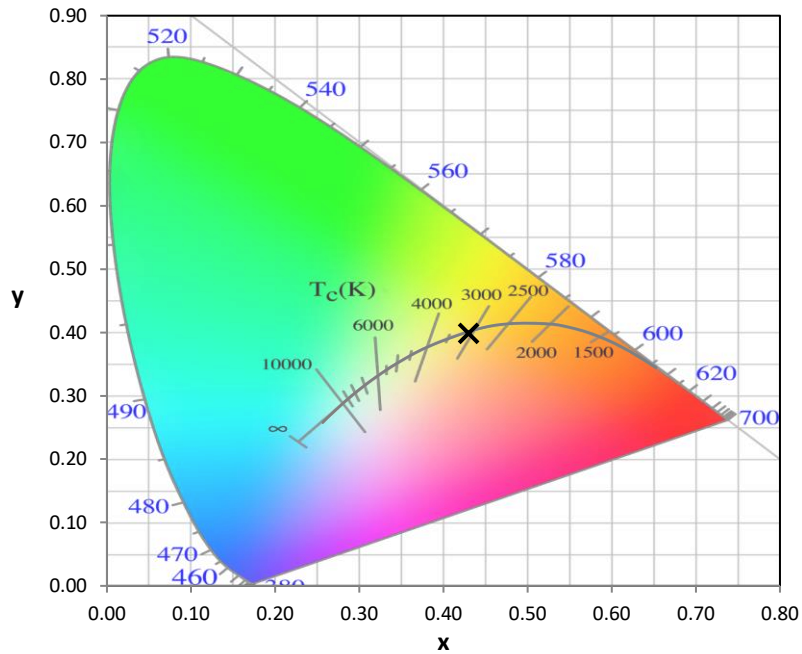


REPORT NUMBER: SP1-2312-242-1

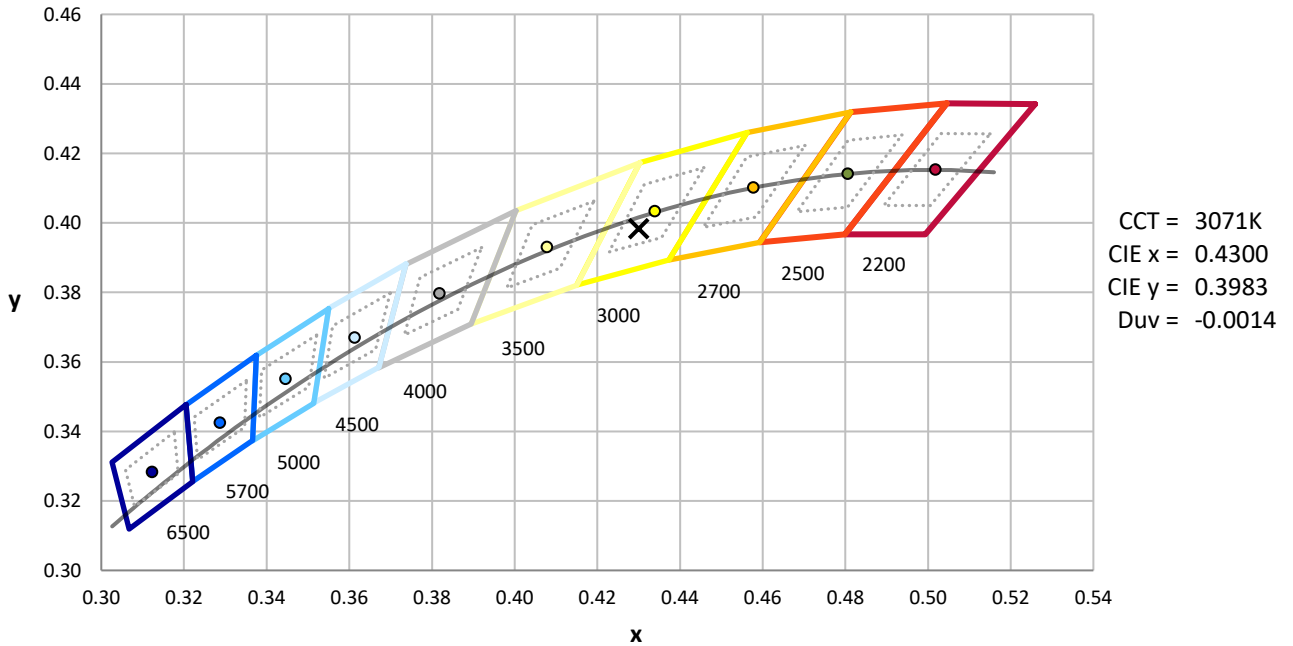
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	8/9/2023	2/9/2024
Power Meter	XITRON 2801 IN0071	10/23/2023	10/23/2024
AC Power Source	CHROMA 61603 IN0063	10/24/2023	10/24/2024
DC Power Source	AGILENT E3634A IN0208	10/24/2023	10/24/2024
Sphere Thermometer	ONSET IN0085	10/24/2023	10/24/2024
Room Thermometer	ONSET IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2312-242-1

CIE 1931 Chromaticity Diagram



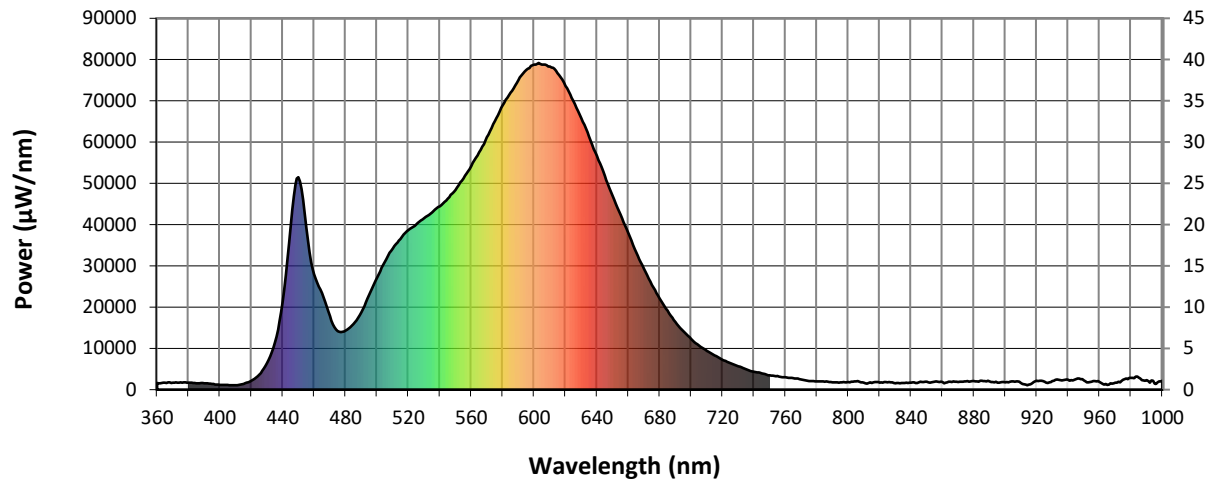
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2312-242-1

**Photopic Flux vs. Wavelength**

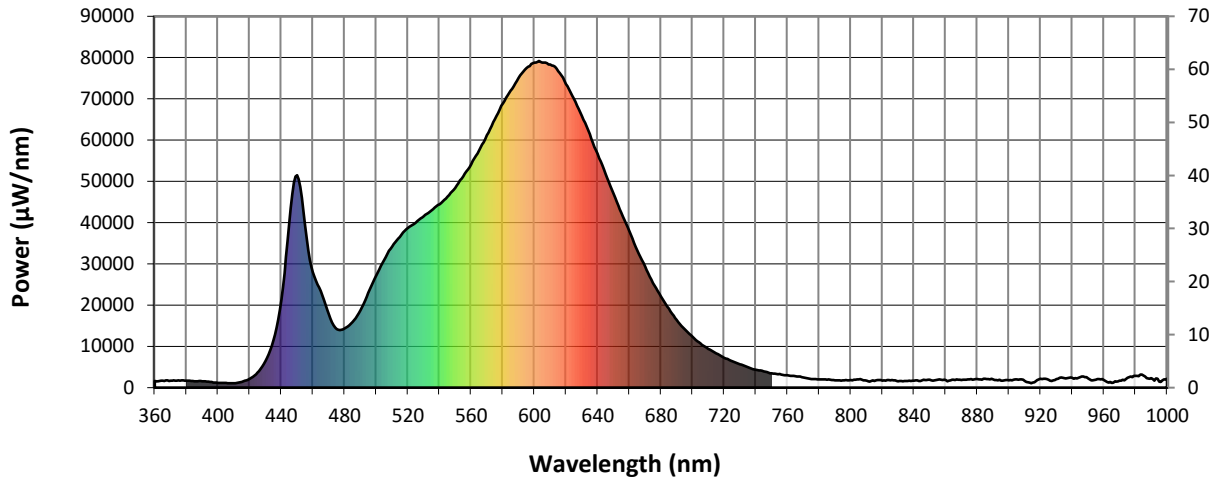


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λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)
360	1638	NR	490	18774	NR	620	73569	NR	750	3454	NR	880	2051	NR
365	1662	NR	495	22975	NR	625	70020	NR	755	3312	NR	885	2153	NR
370	1656	NR	500	27096	NR	630	65803	NR	760	3014	NR	890	2009	NR
375	1770	NR	505	30929	NR	635	61387	NR	765	2769	NR	895	1712	NR
380	1729	NR	510	34180	NR	640	56660	NR	770	2504	NR	900	1761	NR
385	1518	NR	515	36518	NR	645	51817	NR	775	2115	NR	905	1983	NR
390	1548	NR	520	38707	NR	650	46959	NR	780	2019	NR	910	1641	NR
395	1397	NR	525	40022	NR	655	42381	NR	785	1959	NR	915	1210	NR
400	1152	NR	530	41531	NR	660	37988	NR	790	1801	NR	920	2137	NR
405	1114	NR	535	42959	NR	665	33226	NR	795	1791	NR	925	1888	NR
410	1082	NR	540	44456	NR	670	29309	NR	800	1854	NR	930	2049	NR
415	1365	NR	545	46323	NR	675	25362	NR	805	2036	NR	935	2328	NR
420	2134	NR	550	48405	NR	680	22111	NR	810	1669	NR	940	2366	NR
425	3614	NR	555	51180	NR	685	19110	NR	815	1640	NR	945	2536	NR
430	6425	NR	560	54143	NR	690	16401	NR	820	1697	NR	950	2198	NR
435	11468	NR	565	57516	NR	695	14174	NR	825	1795	NR	955	1936	NR
440	21323	NR	570	61145	NR	700	12303	NR	830	1560	NR	960	1858	NR
445	39520	NR	575	65023	NR	705	10670	NR	835	1592	NR	965	1183	NR
450	51461	NR	580	68883	NR	710	9399	NR	840	1683	NR	970	1720	NR
455	39205	NR	585	71953	NR	715	8320	NR	845	1780	NR	975	2378	NR
460	27949	NR	590	75087	NR	720	7212	NR	850	1939	NR	980	2863	NR
465	23410	NR	595	77461	NR	725	6424	NR	855	1958	NR	985	2933	NR
470	17812	NR	600	78820	NR	730	5661	NR	860	1851	NR	990	2307	NR
475	14177	NR	605	78757	NR	735	4959	NR	865	1941	NR	995	1431	NR
480	14309	NR	610	78335	NR	740	4317	NR	870	1825	NR	1000	2153	NR
485	15862	NR	615	76712	NR	745	3947	NR	875	2023	NR			

REPORT NUMBER: SP1-2312-242-1

**Scotopic Flux vs. Wavelength**



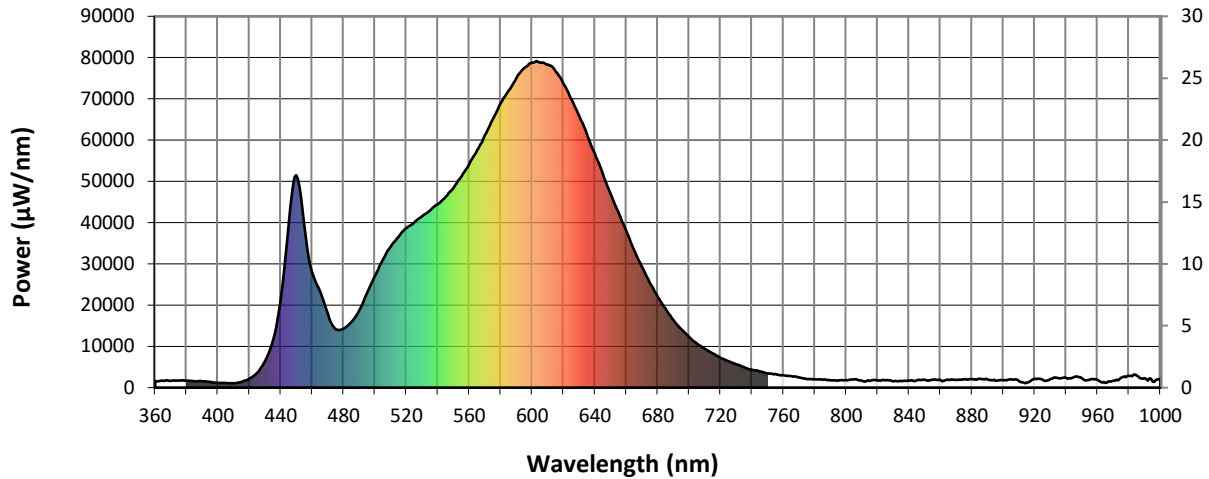
**Scotopic Lumens: 5426.6**

**S/P: 1.39**

$\lambda$ (nm)	Power ( $\mu\text{W}/\text{nm}$ )	Lumens ( $\phi/\text{nm}$ )	$\lambda$ (nm)	Power ( $\mu\text{W}/\text{nm}$ )	Lumens ( $\phi/\text{nm}$ )	$\lambda$ (nm)	Power ( $\mu\text{W}/\text{nm}$ )	Lumens ( $\phi/\text{nm}$ )	$\lambda$ (nm)	Power ( $\mu\text{W}/\text{nm}$ )	Lumens ( $\phi/\text{nm}$ )	$\lambda$ (nm)	Power ( $\mu\text{W}/\text{nm}$ )	Lumens ( $\phi/\text{nm}$ )
360	1638	NR	490	18774	NR	620	73569	NR	750	3454	NR	880	2051	NR
365	1662	NR	495	22975	NR	625	70020	NR	755	3312	NR	885	2153	NR
370	1656	NR	500	27096	NR	630	65803	NR	760	3014	NR	890	2009	NR
375	1770	NR	505	30929	NR	635	61387	NR	765	2769	NR	895	1712	NR
380	1729	NR	510	34180	NR	640	56660	NR	770	2504	NR	900	1761	NR
385	1518	NR	515	36518	NR	645	51817	NR	775	2115	NR	905	1983	NR
390	1548	NR	520	38707	NR	650	46959	NR	780	2019	NR	910	1641	NR
395	1397	NR	525	40022	NR	655	42381	NR	785	1959	NR	915	1210	NR
400	1152	NR	530	41531	NR	660	37988	NR	790	1801	NR	920	2137	NR
405	1114	NR	535	42959	NR	665	33226	NR	795	1791	NR	925	1888	NR
410	1082	NR	540	44456	NR	670	29309	NR	800	1854	NR	930	2049	NR
415	1365	NR	545	46323	NR	675	25362	NR	805	2036	NR	935	2328	NR
420	2134	NR	550	48405	NR	680	22111	NR	810	1669	NR	940	2366	NR
425	3614	NR	555	51180	NR	685	19110	NR	815	1640	NR	945	2536	NR
430	6425	NR	560	54143	NR	690	16401	NR	820	1697	NR	950	2198	NR
435	11468	NR	565	57516	NR	695	14174	NR	825	1795	NR	955	1936	NR
440	21323	NR	570	61145	NR	700	12303	NR	830	1560	NR	960	1858	NR
445	39520	NR	575	65023	NR	705	10670	NR	835	1592	NR	965	1183	NR
450	51461	NR	580	68883	NR	710	9399	NR	840	1683	NR	970	1720	NR
455	39205	NR	585	71953	NR	715	8320	NR	845	1780	NR	975	2378	NR
460	27949	NR	590	75087	NR	720	7212	NR	850	1939	NR	980	2863	NR
465	23410	NR	595	77461	NR	725	6424	NR	855	1958	NR	985	2933	NR
470	17812	NR	600	78820	NR	730	5661	NR	860	1851	NR	990	2307	NR
475	14177	NR	605	78757	NR	735	4959	NR	865	1941	NR	995	1431	NR
480	14309	NR	610	78335	NR	740	4317	NR	870	1825	NR	1000	2153	NR
485	15862	NR	615	76712	NR	745	3947	NR	875	2023	NR			

REPORT NUMBER: SP1-2312-242-1

**Melanopic Flux vs. Wavelength**



**Melanopic Lumens: 2079.1 M/P: 0.53**

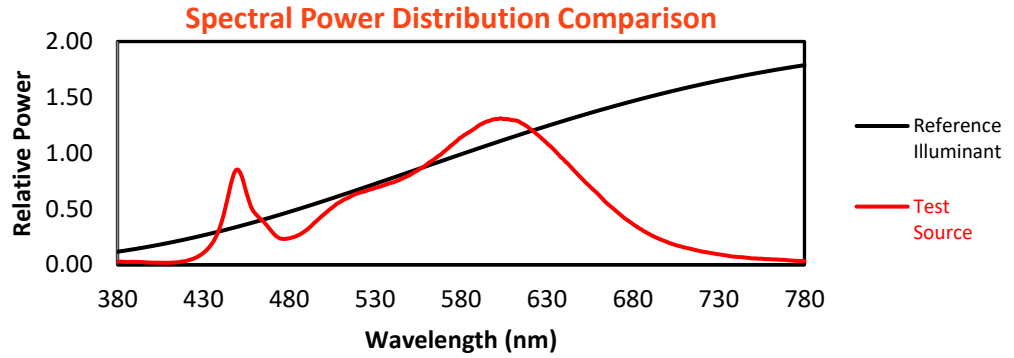
λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)
360	1638	NR	490	18774	NR	620	73569	NR	750	3454	NR	880	2051	NR
365	1662	NR	495	22975	NR	625	70020	NR	755	3312	NR	885	2153	NR
370	1656	NR	500	27096	NR	630	65803	NR	760	3014	NR	890	2009	NR
375	1770	NR	505	30929	NR	635	61387	NR	765	2769	NR	895	1712	NR
380	1729	NR	510	34180	NR	640	56660	NR	770	2504	NR	900	1761	NR
385	1518	NR	515	36518	NR	645	51817	NR	775	2115	NR	905	1983	NR
390	1548	NR	520	38707	NR	650	46959	NR	780	2019	NR	910	1641	NR
395	1397	NR	525	40022	NR	655	42381	NR	785	1959	NR	915	1210	NR
400	1152	NR	530	41531	NR	660	37988	NR	790	1801	NR	920	2137	NR
405	1114	NR	535	42959	NR	665	33226	NR	795	1791	NR	925	1888	NR
410	1082	NR	540	44456	NR	670	29309	NR	800	1854	NR	930	2049	NR
415	1365	NR	545	46323	NR	675	25362	NR	805	2036	NR	935	2328	NR
420	2134	NR	550	48405	NR	680	22111	NR	810	1669	NR	940	2366	NR
425	3614	NR	555	51180	NR	685	19110	NR	815	1640	NR	945	2536	NR
430	6425	NR	560	54143	NR	690	16401	NR	820	1697	NR	950	2198	NR
435	11468	NR	565	57516	NR	695	14174	NR	825	1795	NR	955	1936	NR
440	21323	NR	570	61145	NR	700	12303	NR	830	1560	NR	960	1858	NR
445	39520	NR	575	65023	NR	705	10670	NR	835	1592	NR	965	1183	NR
450	51461	NR	580	68883	NR	710	9399	NR	840	1683	NR	970	1720	NR
455	39205	NR	585	71953	NR	715	8320	NR	845	1780	NR	975	2378	NR
460	27949	NR	590	75087	NR	720	7212	NR	850	1939	NR	980	2863	NR
465	23410	NR	595	77461	NR	725	6424	NR	855	1958	NR	985	2933	NR
470	17812	NR	600	78820	NR	730	5661	NR	860	1851	NR	990	2307	NR
475	14177	NR	605	78757	NR	735	4959	NR	865	1941	NR	995	1431	NR
480	14309	NR	610	78335	NR	740	4317	NR	870	1825	NR	1000	2153	NR
485	15862	NR	615	76712	NR	745	3947	NR	875	2023	NR			

REPORT NUMBER: SP1-2312-242-1

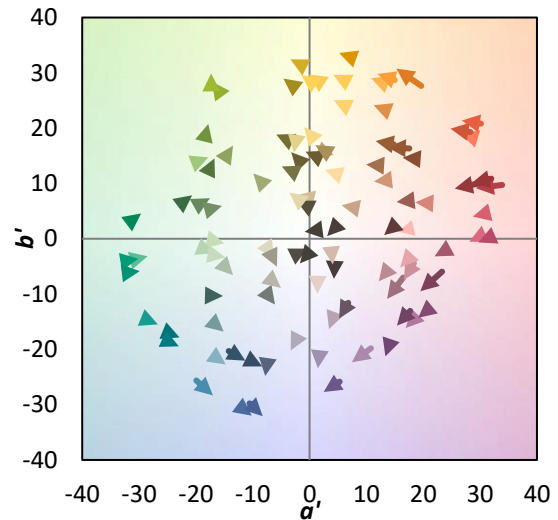
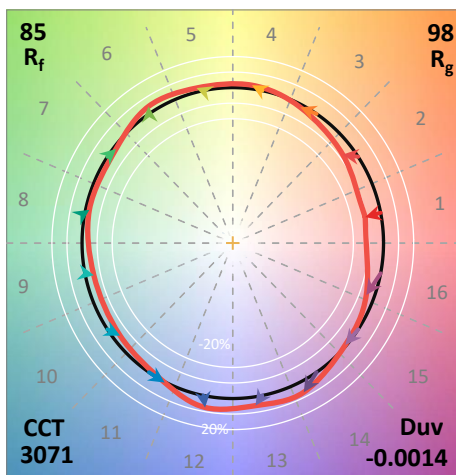
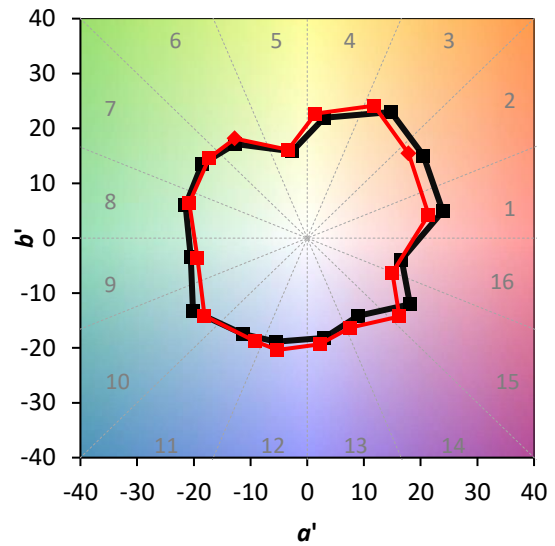
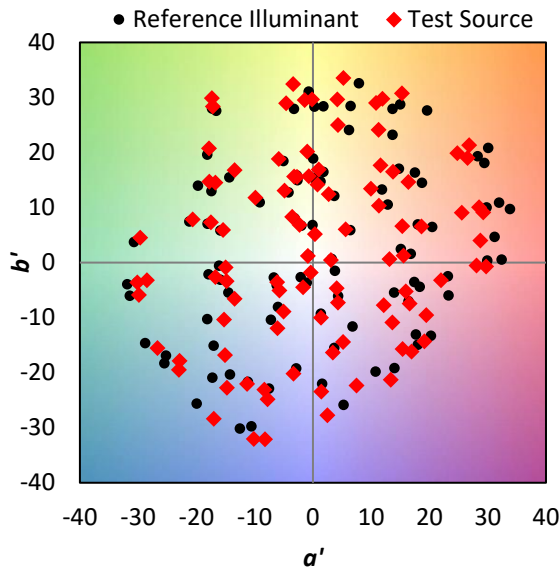
TM-30-18

**Summary**

$R_f = 85.3$   
 $R_g = 97.6$   
 CIE  $R_a = 83.9$   
 $R_9 = 12.3$



**Color Vector Graphics**

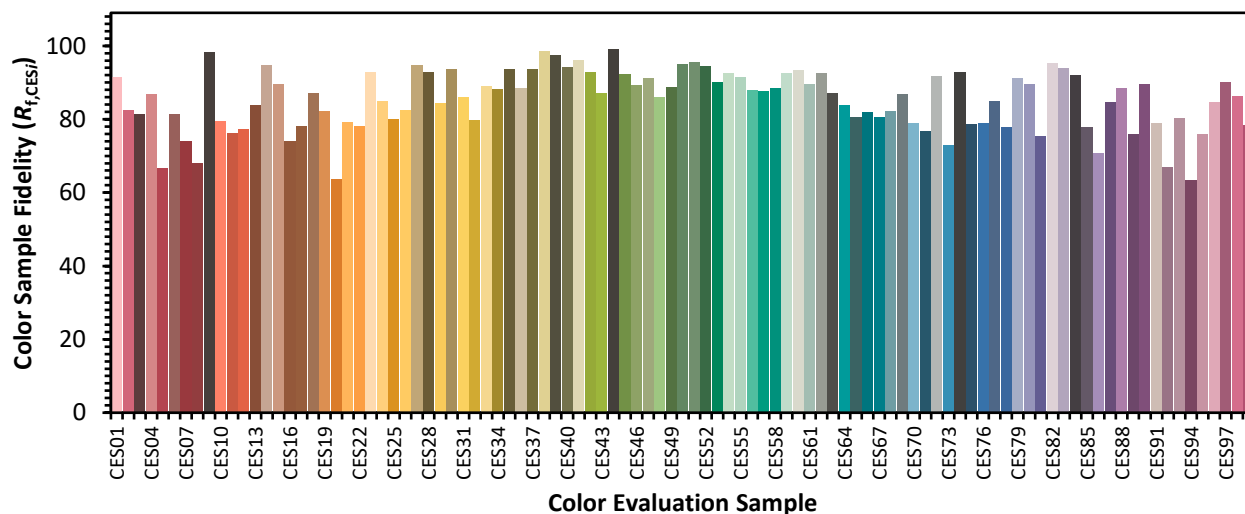


REPORT NUMBER: SP1-2312-242-1

TM-30-18

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

CES01 = 86	CES26 = 82	CES51 = 96	CES76 = 79
CES02 = 63	CES27 = 95	CES52 = 94	CES77 = 85
CES03 = 31	CES28 = 93	CES53 = 90	CES78 = 78
CES04 = 70	CES29 = 84	CES54 = 93	CES79 = 91
CES05 = 50	CES30 = 94	CES55 = 92	CES80 = 90
CES06 = 51	CES31 = 86	CES56 = 88	CES81 = 75
CES07 = 42	CES32 = 80	CES57 = 88	CES82 = 95
CES08 = 41	CES33 = 89	CES58 = 89	CES83 = 94
CES09 = 29	CES34 = 88	CES59 = 93	CES84 = 92
CES10 = 76	CES35 = 94	CES60 = 93	CES85 = 78
CES11 = 59	CES36 = 88	CES61 = 90	CES86 = 71
CES12 = 65	CES37 = 94	CES62 = 93	CES87 = 85
CES13 = 43	CES38 = 98	CES63 = 87	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 84	CES89 = 76
CES15 = 72	CES40 = 94	CES65 = 81	CES90 = 90
CES16 = 48	CES41 = 96	CES66 = 82	CES91 = 79
CES17 = 50	CES42 = 93	CES67 = 81	CES92 = 67
CES18 = 56	CES43 = 87	CES68 = 82	CES93 = 80
CES19 = 72	CES44 = 99	CES69 = 87	CES94 = 63
CES20 = 67	CES45 = 92	CES70 = 79	CES95 = 76
CES21 = 87	CES46 = 89	CES71 = 77	CES96 = 85
CES22 = 79	CES47 = 91	CES72 = 92	CES97 = 90
CES23 = 92	CES48 = 86	CES73 = 73	CES98 = 86
CES24 = 91	CES49 = 89	CES74 = 93	CES99 = 78
CES25 = 72	CES50 = 95	CES75 = 79	

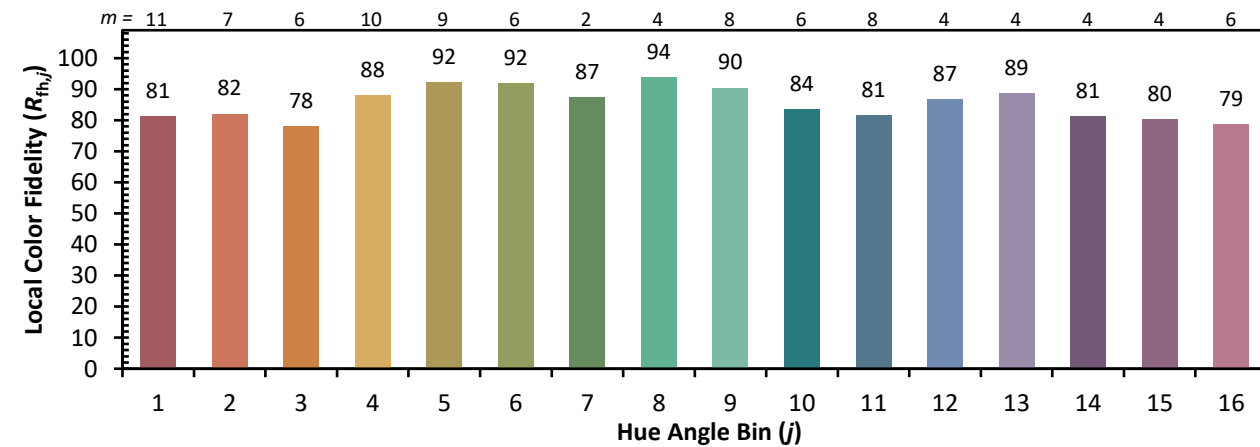
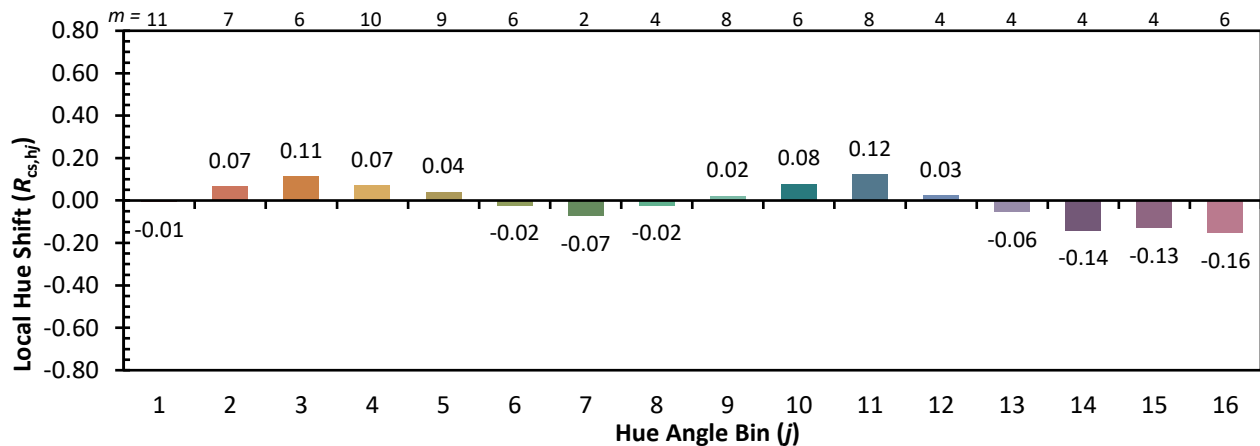
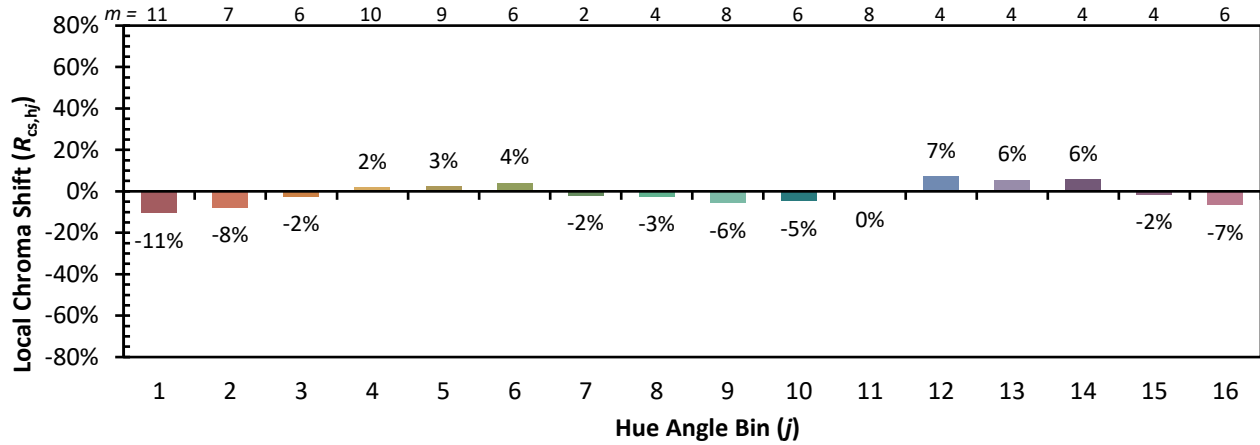




REPORT NUMBER: SP1-2312-242-1

TM-30-18

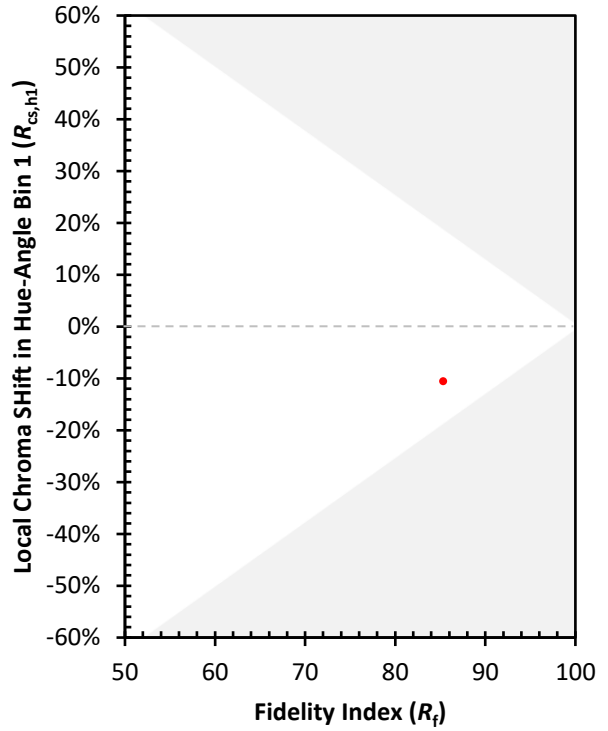
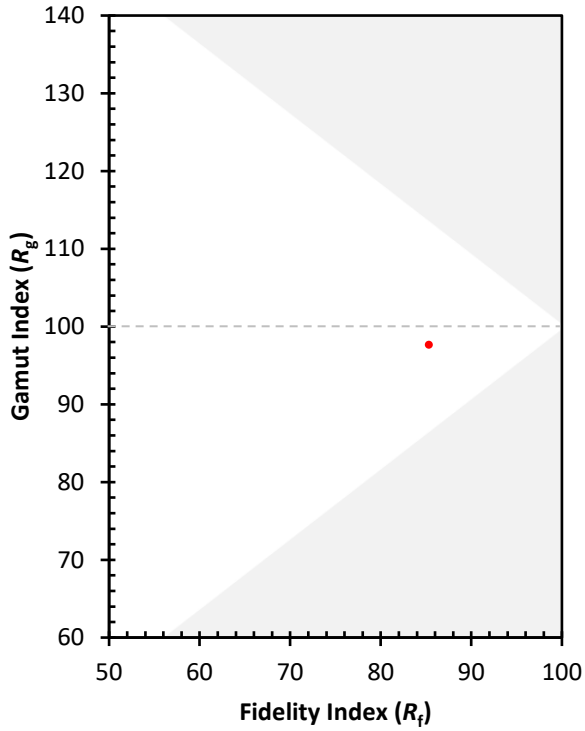
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2312-242-1

TM-30-18

Measure Comparisons





TEST NUMBER: P959024  
 CATALOG NUMBER: CB3-B-055U-120D-830-1D-UNV-STD-W-4

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.82	19.80	19.66	20.66	21.73	17.74	18.72	18.58	19.58	20.65
	3H	20.49	21.37	21.35	22.24	23.34	19.16	20.04	20.01	20.91	22.01
	4H	21.13	21.96	22.00	22.83	23.94	19.69	20.51	20.55	21.39	22.50
	6H	21.52	22.28	22.40	23.17	24.29	20.01	20.77	20.89	21.66	22.78
	8H	21.66	22.39	22.55	23.29	24.41	20.14	20.86	21.02	21.76	22.89
	12H	21.73	22.42	22.63	23.32	24.47	20.22	20.91	21.11	21.80	22.95
4H	2H	19.24	20.07	20.11	20.94	22.05	18.38	19.21	19.26	20.09	21.20
	3H	21.14	21.83	22.03	22.74	23.86	20.01	20.70	20.90	21.61	22.73
	4H	21.90	22.52	22.79	23.43	24.58	20.62	21.25	21.52	22.16	23.31
	6H	22.40	22.95	23.31	23.87	25.03	21.04	21.58	21.95	22.51	23.67
	8H	22.60	23.10	23.51	24.03	25.19	21.21	21.72	22.13	22.64	23.81
	12H	22.70	23.16	23.63	24.10	25.27	21.33	21.78	22.26	22.72	23.90
8H	4H	22.03	22.54	22.95	23.46	24.63	20.89	21.40	21.81	22.32	23.49
	6H	22.66	23.08	23.60	24.04	25.21	21.43	21.85	22.37	22.81	23.98
	8H	22.93	23.30	23.88	24.26	25.44	21.68	22.05	22.63	23.01	24.19
	12H	23.10	23.43	24.06	24.38	25.61	21.86	22.19	22.81	23.14	24.37
12H	4H	22.01	22.47	22.94	23.41	24.58	20.90	21.36	21.83	22.30	23.47
	6H	22.67	23.05	23.62	24.00	25.18	21.48	21.86	22.43	22.81	24.00
	8H	22.98	23.31	23.93	24.25	25.49	21.77	22.10	22.73	23.05	24.28