

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: P959005

Luminaire Tested: CB3-B-030U-030D-840-1D-UNV-STD-W-4

Issue Date: 2/12/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P959005  
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-030U-030D-840-1D-UNV-STD-W-4  
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT  
3-INCH APERTURE  
DOWNLIGHT 300 LUMENS PER FOOT  
UPLIGHT 300 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

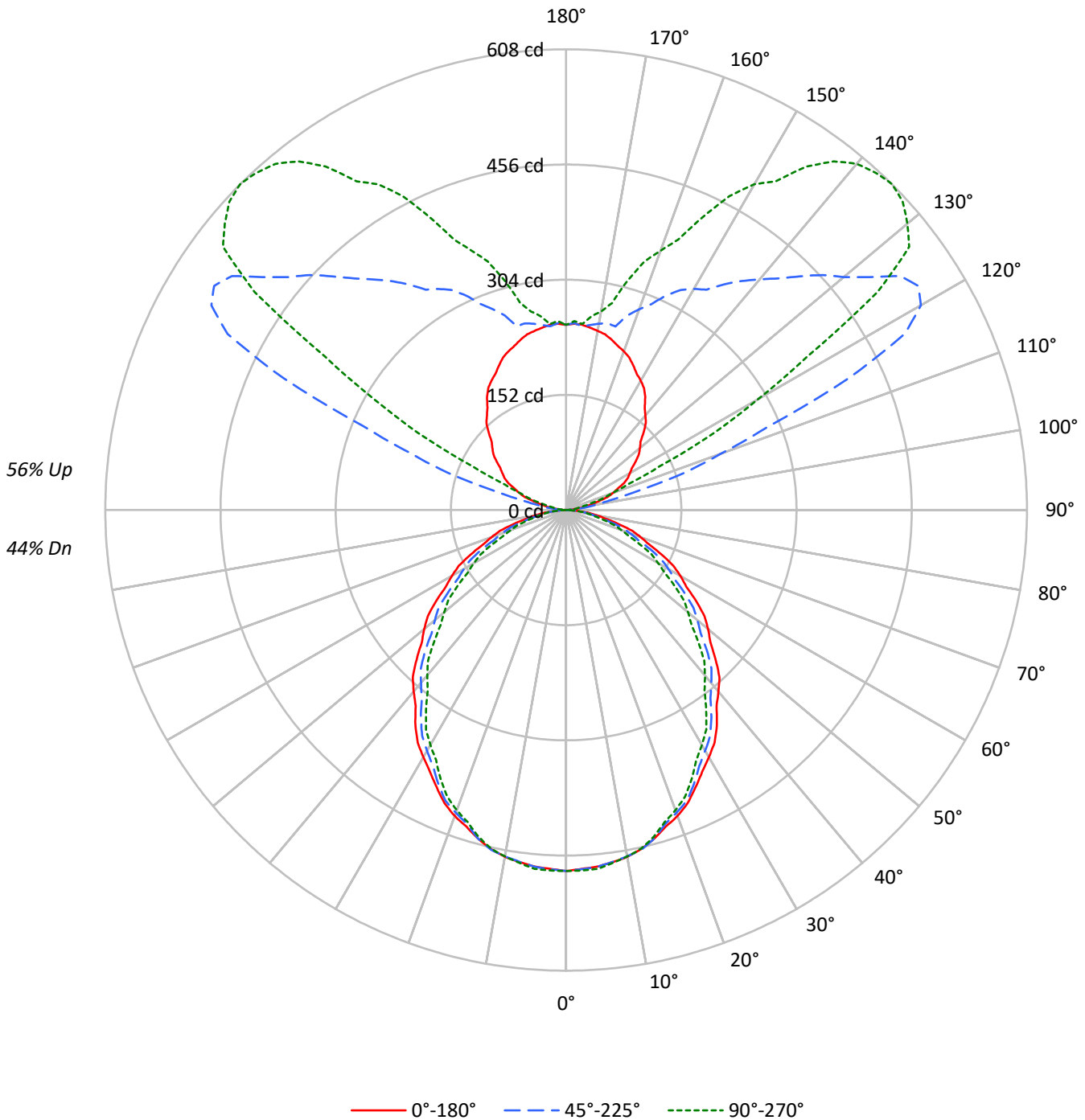
Lumens per Lamp: N/A  
Luminaire Lumens: 2577.9 lumens  
Efficiency: N/A  
Efficacy: 154.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 0.24' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 16.7  
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: P959005  
CATALOG NUMBER: CB3-B-030U-030D-840-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P959005

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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44			44
1	97	92	89	85	88	85	82	79	70	68	66	57	56	54	45	44	43	38			38
2	88	81	75	70	80	74	69	65	62	58	55	50	48	46	40	38	37	32			32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	39	36	33	31	27			27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	23			23
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20			20
6	62	50	42	37	57	47	40	34	39	34	30	32	28	25	26	23	21	18			18
7	58	46	38	32	53	42	35	30	36	30	26	30	26	22	24	21	19	16			16
8	53	41	34	29	49	38	32	27	33	27	23	27	23	20	22	19	17	14			14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13			13
10	46	35	28	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12			12

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

	0°	45°	90°
0°	5390	5390	5390
5°	5365	5369	5399
10°	5341	5333	5333
15°	5259	5259	5228
20°	5174	5121	5076
25°	5044	4980	4891
30°	4920	4792	4677
35°	4790	4613	4449
40°	4619	4399	4208
45°	4461	4207	3948
50°	4300	3978	3693
55°	4125	3758	3450
60°	3935	3530	3177
65°	3713	3272	2889
70°	3460	2967	2574
75°	3134	2605	2291
80°	2737	2183	2026
85°	2103	1843	1843

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4461 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.0	1.7
10°-20°	126.3	4.9
20°-30°	183.5	7.1
30°-40°	208.6	8.1
40°-50°	202.5	7.9
50°-60°	171.0	6.6
60°-70°	121.7	4.7
70°-80°	65.0	2.5
80°-90°	17.2	0.7
90°-100°	16.5	0.6
100°-110°	86.6	3.4
110°-120°	218.0	8.5
120°-130°	336.3	13.0
130°-140°	307.9	11.9
140°-150°	227.2	8.8
150°-160°	144.8	5.6
160°-170°	76.2	3.0
170°-180°	23.7	0.9
0°-30°	354.7	13.8
0°-40°	563.3	21.9
0°-60°	936.8	36.3
0°-90°	1140.6	44.2
90°-120°	321.1	12.5
90°-150°	1192.5	46.3
90°-180°	1437.0	55.7
0°-180°	2577.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	476	476	476	476	476	
5°	472	478	473	472	475	45
15°	449	453	449	446	446	126
25°	404	405	399	394	392	186
35°	347	344	334	324	322	216
45°	279	274	263	250	247	215
55°	209	204	190	178	175	187
65°	139	134	122	111	108	137
75°	72	68	60	53	52	76
85°	16	15	14	14	14	19
90°	0	0	0	0	0	1
95°	9	24	10	5	5	11
105°	44	137	99	41	33	47
115°	84	171	411	179	136	82
125°	112	173	538	543	502	100
135°	144	193	436	594	608	111
145°	182	210	364	506	553	113
155°	210	226	312	386	426	97
165°	232	239	251	293	313	66
175°	245	251	243	244	246	23
180°	244	244	244	244	244	

TEST NUMBER: P959005

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	476.4	476.4	476.4	476.4	476.4
2.5°	474.0	478.8	474.5	475.1	476.2
5°	472.4	478.3	472.7	472.1	475.4
7.5°	468.7	474.1	468.3	467.0	469.9
10°	464.9	470.9	464.2	462.6	464.2
12.5°	458.2	464.4	459.1	456.4	457.7
15°	449.0	453.0	449.0	446.3	446.3
17.5°	437.9	442.0	434.5	432.6	431.9
20°	429.7	433.4	425.3	422.6	421.6
22.5°	418.9	422.3	415.6	411.0	409.7
25°	404.0	405.3	398.9	393.5	391.8
27.5°	389.1	389.4	380.6	374.0	371.8
30°	376.6	376.9	366.8	359.7	358.0
32.5°	364.2	363.2	353.5	345.0	343.9
35°	346.8	343.5	334.0	324.1	322.1
37.5°	325.9	323.9	312.7	302.8	299.8
40°	312.7	309.3	297.8	287.9	284.9
42.5°	299.4	295.6	283.7	272.7	269.5
45°	278.8	274.5	262.9	250.3	246.7
47.5°	258.1	253.4	240.6	228.4	224.4
50°	244.3	239.3	226.0	214.1	209.8
52.5°	230.2	225.0	211.7	199.5	196.0
55°	209.1	203.5	190.5	178.2	174.9
57.5°	188.0	182.4	169.5	157.9	154.0
60°	173.9	168.6	156.0	144.4	140.4
62.5°	159.6	154.5	142.2	130.9	127.2
65°	138.7	133.8	122.2	111.2	107.9
67.5°	118.1	113.9	102.4	92.4	89.7
70°	104.6	100.6	89.7	80.5	77.8
72.5°	91.6	87.3	76.9	69.1	67.3
75°	71.7	67.8	59.6	53.4	52.4
77.5°	53.6	50.4	43.2	39.8	39.3
80°	42.0	39.0	33.5	31.1	31.1
82.5°	31.1	28.7	25.1	24.1	24.1
85°	16.2	14.9	14.2	14.2	14.2
87.5°	4.9	4.9	4.6	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	2.6	6.0	1.7	0.9	1.7
95°	8.6	24.4	9.7	5.4	5.4
97.5°	17.9	54.5	25.0	13.3	12.1
100°	24.8	77.4	38.8	19.3	17.2
102.5°	32.5	100.3	58.6	26.2	22.4
105°	44.1	136.8	99.0	40.7	33.4
107.5°	57.1	161.7	163.2	62.8	50.6
110°	65.7	172.0	217.4	82.5	63.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	73.4	174.7	289.8	112.4	86.8
115°	84.0	171.3	411.2	178.8	135.6
117.5°	91.7	163.1	503.4	284.4	219.4
120°	96.9	163.2	540.4	364.4	291.7
122.5°	102.9	164.2	550.7	443.7	377.0
125°	112.0	173.0	538.2	542.7	501.6
127.5°	121.0	179.5	504.7	583.4	570.5
130°	127.0	183.9	478.0	597.2	587.8
132.5°	133.1	188.2	459.0	597.6	602.4
135°	144.2	192.7	436.0	594.5	608.2
137.5°	155.7	198.2	414.4	575.7	604.1
140°	162.5	202.5	397.2	555.3	596.4
142.5°	170.3	206.1	380.9	536.4	580.0
145°	181.9	210.3	363.8	505.9	553.3
147.5°	191.0	212.6	344.7	475.2	514.3
150°	197.0	212.8	336.9	447.8	496.3
152.5°	202.2	217.1	327.5	422.8	467.0
155°	209.9	225.7	312.2	386.3	426.3
157.5°	217.7	232.8	294.1	359.1	386.2
160°	222.8	235.5	282.0	346.0	363.8
162.5°	227.1	238.1	269.1	323.6	344.0
165°	232.5	238.8	250.8	293.3	313.3
167.5°	237.5	240.6	252.3	263.5	279.7
170°	240.1	243.2	249.7	260.6	265.9
172.5°	242.6	247.5	246.3	253.7	258.1
175°	245.4	250.7	243.3	244.4	246.5
177.5°	246.1	248.6	246.9	247.0	249.5
180°	244.4	244.4	244.4	244.4	244.4

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

Report Prepared for

Cooper Lighting Solutions

CORELITE

Report Number: SP1-2312-242-3

Test Date: 01/31/2024

Luminaire Tested: CB2-055U055D-840-1D-UNV-STD-D-W-4

Data in this report applies to families of products including CB2-055U055D-840-1D-UNV-STD-D-W-4.



**Test Information**

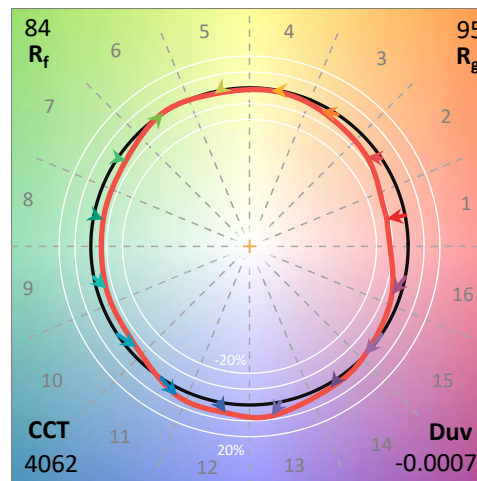
Test Method: LM-79-2019  
 Report Number: SP1-2312-242-3  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry: 4π  
 Issue Date: 01/31/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: CORELITE  
 Catalog Number: **CB2-055U055D-840-1D-UNV-STD-D-W-4**  
 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): 4062  
 CIE u': 0.2244  
 CIE v': 0.4995  
 Duv: -0.0007  
 CIE x: 0.3772  
 CIE y: 0.3732  
 CIE z: 0.2496  
 Peak Wavelength (nm): 452  
 Dominant Wavelength (nm): 579  
 Purity: 25.3  
 Rf: 84.1  
 Rg: 94.8

CRI (Ra):	84.1		
R1:	82.9	R9:	12.5
R2:	91.3	R10:	78.9
R3:	95.7	R11:	81.5
R4:	82.2	R12:	62.0
R5:	82.8	R13:	85.3
R6:	87.1	R14:	98.2
R7:	85.7		
R8:	65.4		



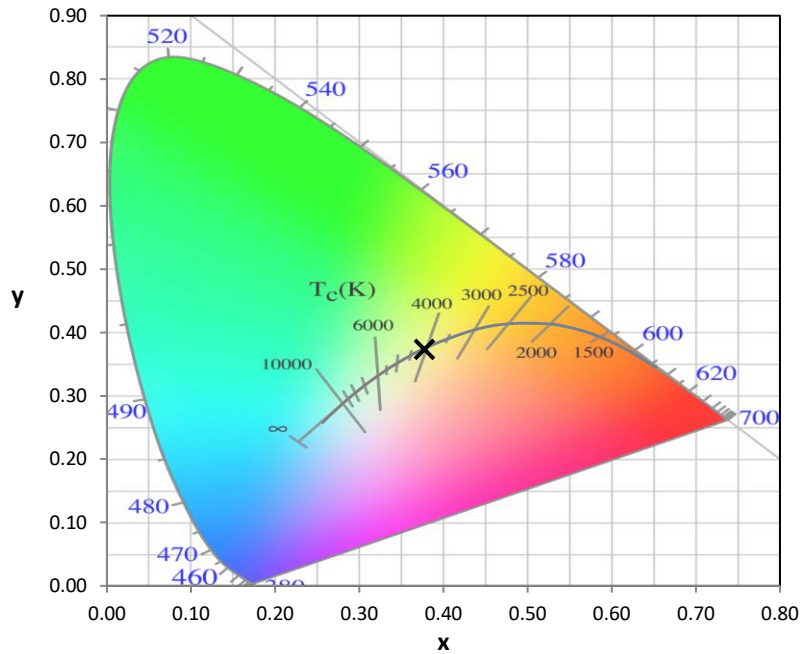
**Test Conditions**  
 Stabilization Time: 26M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 25.8/25%  
 Sphere Temperature (°C): 25.2

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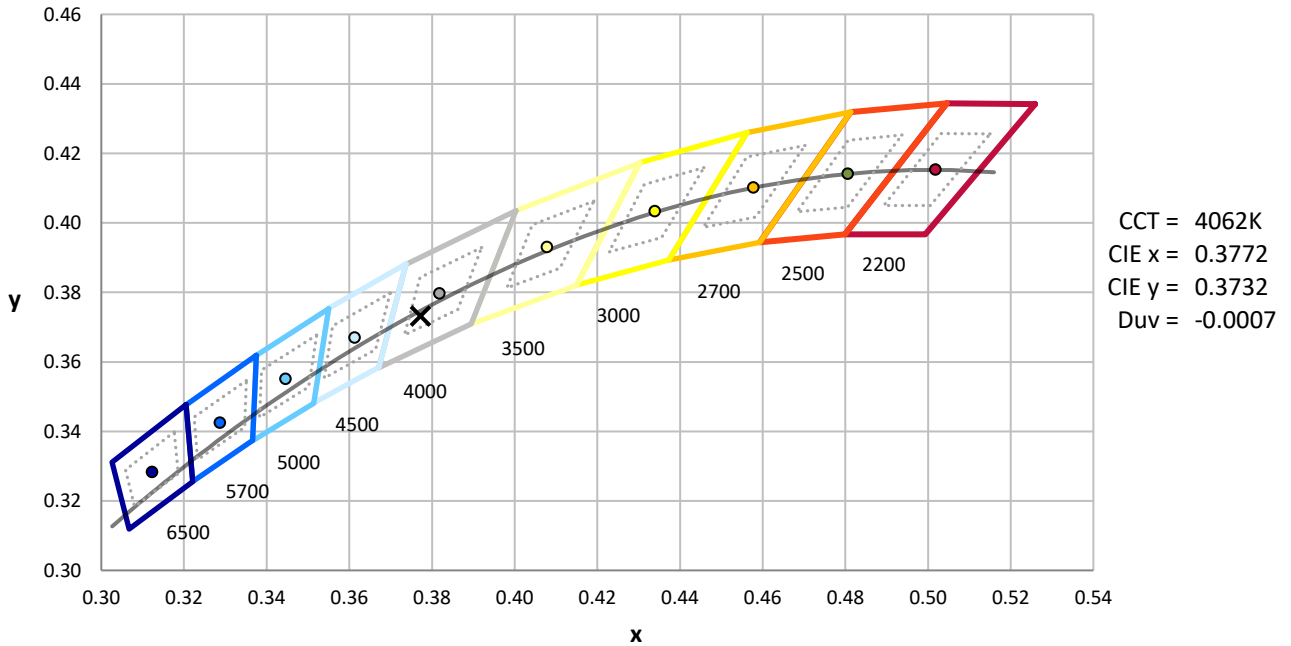
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	8/9/2023	2/9/2024
Power Meter	XITRON 2801 IN0071	10/23/2023	10/23/2024
AC Power Source	CHROMA 61603 IN0063	10/24/2023	10/24/2024
DC Power Source	AGILENT E3634A IN0208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

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CIE 1931 Chromaticity Diagram



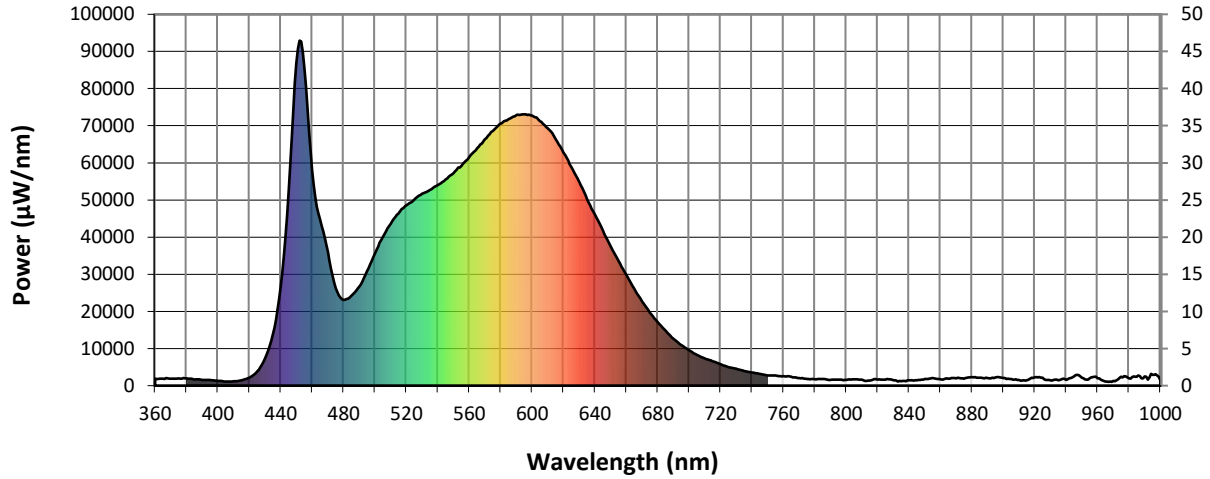
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

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**Photopic Flux vs. Wavelength**

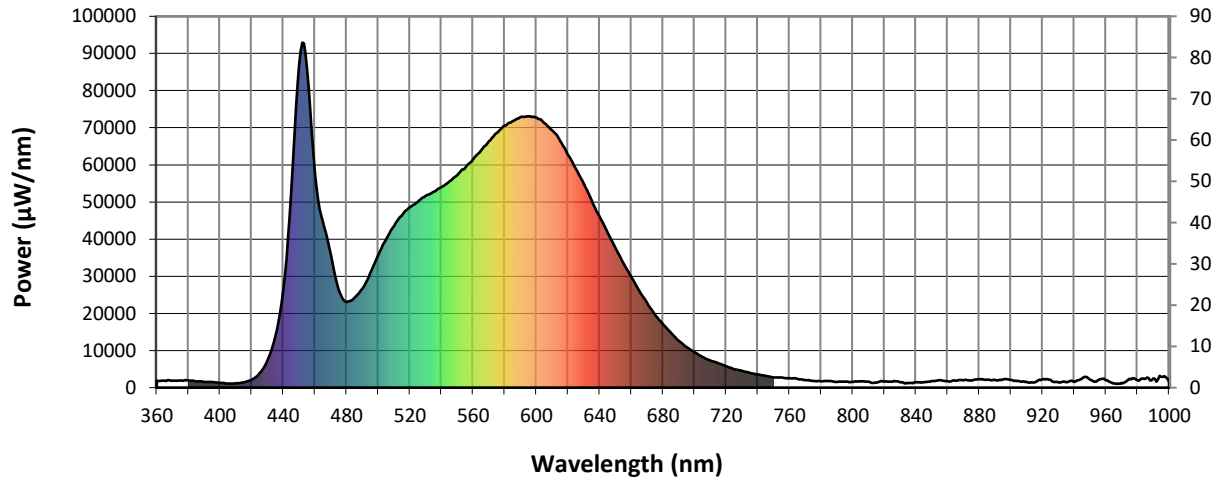


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λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)
360	1912	NR	490	26707	NR	620	62725	NR	750	2758	NR	880	2281	NR
365	1842	NR	495	30809	NR	625	58915	NR	755	2754	NR	885	2159	NR
370	1883	NR	500	35628	NR	630	54868	NR	760	2534	NR	890	2058	NR
375	1963	NR	505	39961	NR	635	50338	NR	765	2358	NR	895	2193	NR
380	1966	NR	510	43602	NR	640	46112	NR	770	2033	NR	900	2056	NR
385	1663	NR	515	46375	NR	645	41812	NR	775	1801	NR	905	1799	NR
390	1572	NR	520	48573	NR	650	37529	NR	780	1738	NR	910	1497	NR
395	1491	NR	525	50073	NR	655	33571	NR	785	1753	NR	915	1444	NR
400	1247	NR	530	51659	NR	660	29866	NR	790	1512	NR	920	2265	NR
405	1092	NR	535	52689	NR	665	26062	NR	795	1628	NR	925	2128	NR
410	1155	NR	540	53980	NR	670	22775	NR	800	1577	NR	930	1483	NR
415	1414	NR	545	55559	NR	675	19628	NR	805	1745	NR	935	1473	NR
420	2172	NR	550	57241	NR	680	17131	NR	810	1584	NR	940	1513	NR
425	3836	NR	555	59220	NR	685	14797	NR	815	1336	NR	945	2506	NR
430	7328	NR	560	61477	NR	690	12645	NR	820	1598	NR	950	2110	NR
435	13915	NR	565	63913	NR	695	10922	NR	825	1652	NR	955	1942	NR
440	26569	NR	570	66367	NR	700	9557	NR	830	1443	NR	960	2004	NR
445	52250	NR	575	68617	NR	705	8271	NR	835	1187	NR	965	1106	NR
450	86961	NR	580	70538	NR	710	7311	NR	840	1409	NR	970	1282	NR
455	85655	NR	585	71781	NR	715	6566	NR	845	1417	NR	975	2377	NR
460	58144	NR	590	72860	NR	720	5734	NR	850	1751	NR	980	2000	NR
465	44751	NR	595	73089	NR	725	5015	NR	855	2009	NR	985	2356	NR
470	35887	NR	600	72720	NR	730	4508	NR	860	1738	NR	990	2487	NR
475	26300	NR	605	71266	NR	735	3916	NR	865	1840	NR	995	2894	NR
480	23116	NR	610	69295	NR	740	3533	NR	870	1982	NR	1000	1478	NR
485	24223	NR	615	66396	NR	745	3158	NR	875	1920	NR			

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Scotopic Flux vs. Wavelength



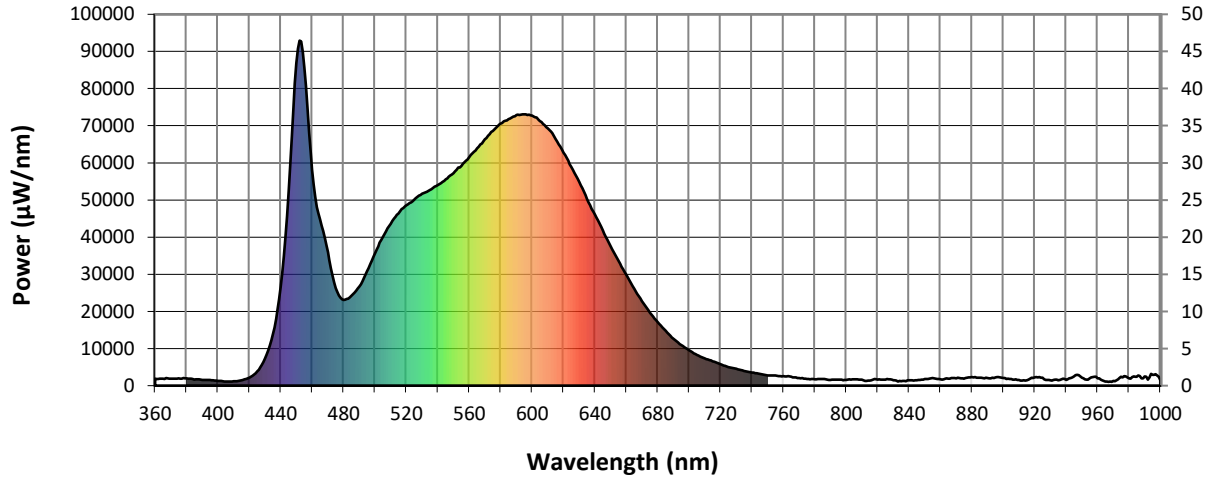
Scotopic Lumens: 7310

S/P: 1.74

$\lambda$ (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	1912	NR	490	26707	NR	620	62725	NR	750	2758	NR	880	2281	NR
365	1842	NR	495	30809	NR	625	58915	NR	755	2754	NR	885	2159	NR
370	1883	NR	500	35628	NR	630	54868	NR	760	2534	NR	890	2058	NR
375	1963	NR	505	39961	NR	635	50338	NR	765	2358	NR	895	2193	NR
380	1966	NR	510	43602	NR	640	46112	NR	770	2033	NR	900	2056	NR
385	1663	NR	515	46375	NR	645	41812	NR	775	1801	NR	905	1799	NR
390	1572	NR	520	48573	NR	650	37529	NR	780	1738	NR	910	1497	NR
395	1491	NR	525	50073	NR	655	33571	NR	785	1753	NR	915	1444	NR
400	1247	NR	530	51659	NR	660	29866	NR	790	1512	NR	920	2265	NR
405	1092	NR	535	52689	NR	665	26062	NR	795	1628	NR	925	2128	NR
410	1155	NR	540	53980	NR	670	22775	NR	800	1577	NR	930	1483	NR
415	1414	NR	545	55559	NR	675	19628	NR	805	1745	NR	935	1473	NR
420	2172	NR	550	57241	NR	680	17131	NR	810	1584	NR	940	1513	NR
425	3836	NR	555	59220	NR	685	14797	NR	815	1336	NR	945	2506	NR
430	7328	NR	560	61477	NR	690	12645	NR	820	1598	NR	950	2110	NR
435	13915	NR	565	63913	NR	695	10922	NR	825	1652	NR	955	1942	NR
440	26569	NR	570	66367	NR	700	9557	NR	830	1443	NR	960	2004	NR
445	52250	NR	575	68617	NR	705	8271	NR	835	1187	NR	965	1106	NR
450	86961	NR	580	70538	NR	710	7311	NR	840	1409	NR	970	1282	NR
455	85655	NR	585	71781	NR	715	6566	NR	845	1417	NR	975	2377	NR
460	58144	NR	590	72860	NR	720	5734	NR	850	1751	NR	980	2000	NR
465	44751	NR	595	73089	NR	725	5015	NR	855	2009	NR	985	2356	NR
470	35887	NR	600	72720	NR	730	4508	NR	860	1738	NR	990	2487	NR
475	26300	NR	605	71266	NR	735	3916	NR	865	1840	NR	995	2894	NR
480	23116	NR	610	69295	NR	740	3533	NR	870	1982	NR	1000	1478	NR
485	24223	NR	615	66396	NR	745	3158	NR	875	1920	NR			

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**Melanopic Flux vs. Wavelength**



**Melanopic Lumens: 3000**

**M/P: 0.71**

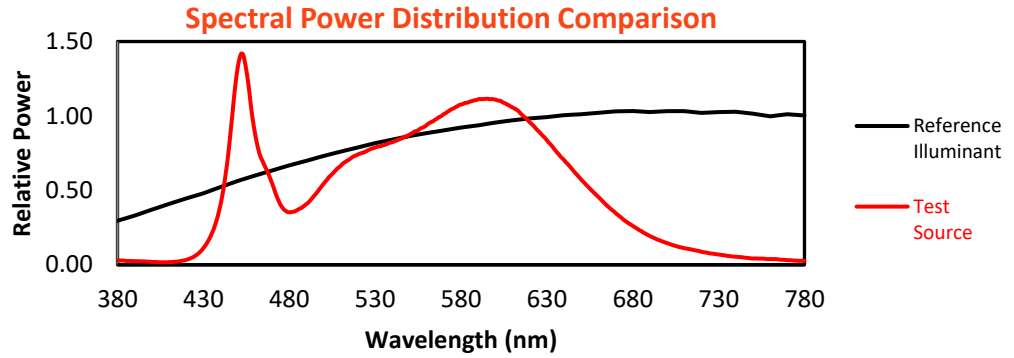
λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)
360	1912	NR	490	26707	NR	620	62725	NR	750	2758	NR	880	2281	NR
365	1842	NR	495	30809	NR	625	58915	NR	755	2754	NR	885	2159	NR
370	1883	NR	500	35628	NR	630	54868	NR	760	2534	NR	890	2058	NR
375	1963	NR	505	39961	NR	635	50338	NR	765	2358	NR	895	2193	NR
380	1966	NR	510	43602	NR	640	46112	NR	770	2033	NR	900	2056	NR
385	1663	NR	515	46375	NR	645	41812	NR	775	1801	NR	905	1799	NR
390	1572	NR	520	48573	NR	650	37529	NR	780	1738	NR	910	1497	NR
395	1491	NR	525	50073	NR	655	33571	NR	785	1753	NR	915	1444	NR
400	1247	NR	530	51659	NR	660	29866	NR	790	1512	NR	920	2265	NR
405	1092	NR	535	52689	NR	665	26062	NR	795	1628	NR	925	2128	NR
410	1155	NR	540	53980	NR	670	22775	NR	800	1577	NR	930	1483	NR
415	1414	NR	545	55559	NR	675	19628	NR	805	1745	NR	935	1473	NR
420	2172	NR	550	57241	NR	680	17131	NR	810	1584	NR	940	1513	NR
425	3836	NR	555	59220	NR	685	14797	NR	815	1336	NR	945	2506	NR
430	7328	NR	560	61477	NR	690	12645	NR	820	1598	NR	950	2110	NR
435	13915	NR	565	63913	NR	695	10922	NR	825	1652	NR	955	1942	NR
440	26569	NR	570	66367	NR	700	9557	NR	830	1443	NR	960	2004	NR
445	52250	NR	575	68617	NR	705	8271	NR	835	1187	NR	965	1106	NR
450	86961	NR	580	70538	NR	710	7311	NR	840	1409	NR	970	1282	NR
455	85655	NR	585	71781	NR	715	6566	NR	845	1417	NR	975	2377	NR
460	58144	NR	590	72860	NR	720	5734	NR	850	1751	NR	980	2000	NR
465	44751	NR	595	73089	NR	725	5015	NR	855	2009	NR	985	2356	NR
470	35887	NR	600	72720	NR	730	4508	NR	860	1738	NR	990	2487	NR
475	26300	NR	605	71266	NR	735	3916	NR	865	1840	NR	995	2894	NR
480	23116	NR	610	69295	NR	740	3533	NR	870	1982	NR	1000	1478	NR
485	24223	NR	615	66396	NR	745	3158	NR	875	1920	NR			

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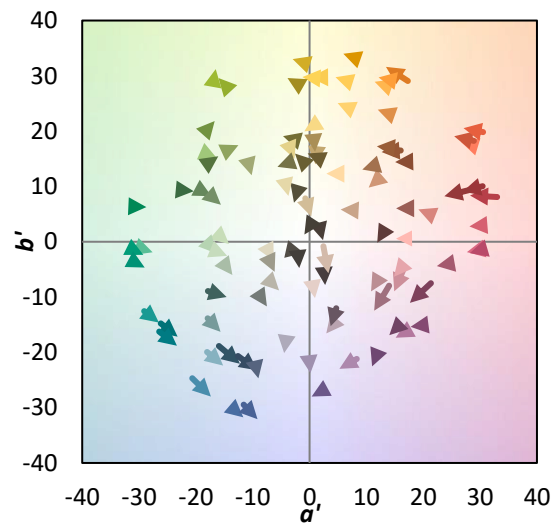
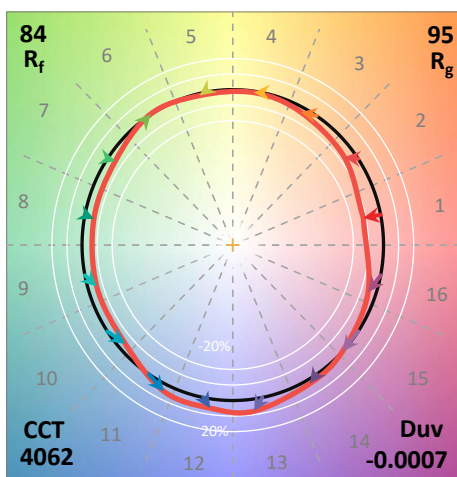
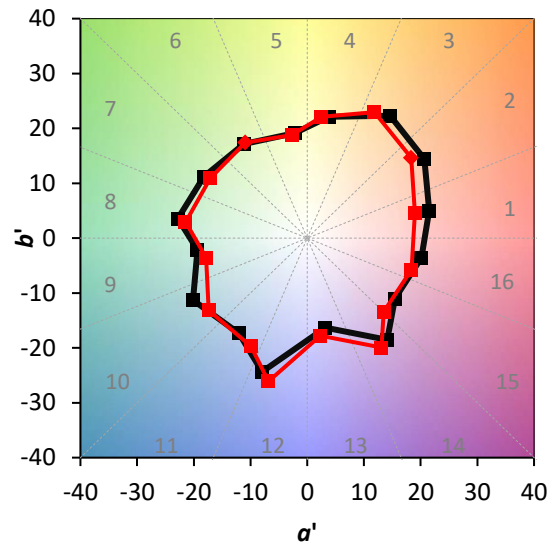
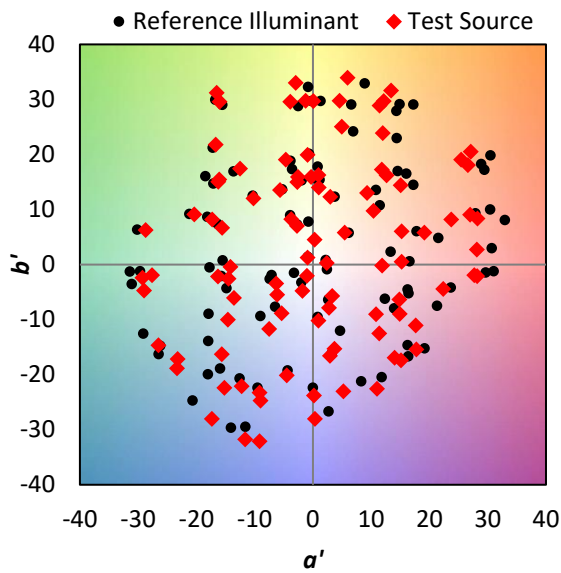
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**Summary**

$R_f = 84.1$   
 $R_g = 94.8$   
 $CIE R_a = 84.1$   
 $R_9 = 12.5$



**Color Vector Graphics**

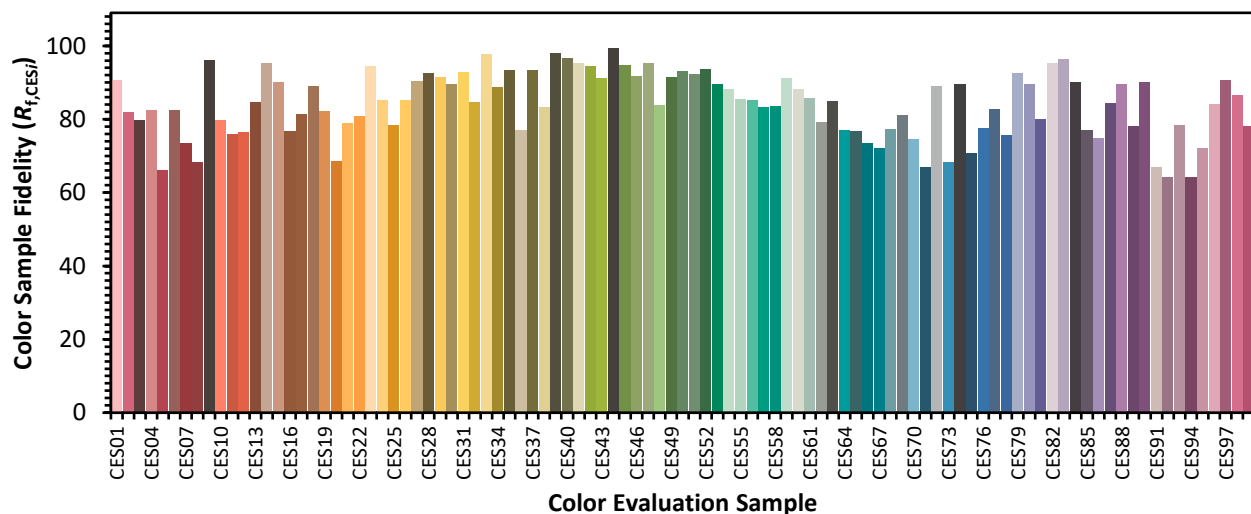


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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

CES01 = 85	CES26 = 85	CES51 = 92	CES76 = 77
CES02 = 61	CES27 = 90	CES52 = 94	CES77 = 83
CES03 = 31	CES28 = 93	CES53 = 90	CES78 = 76
CES04 = 69	CES29 = 92	CES54 = 88	CES79 = 92
CES05 = 48	CES30 = 90	CES55 = 85	CES80 = 90
CES06 = 50	CES31 = 93	CES56 = 85	CES81 = 80
CES07 = 41	CES32 = 85	CES57 = 83	CES82 = 95
CES08 = 40	CES33 = 98	CES58 = 84	CES83 = 96
CES09 = 29	CES34 = 89	CES59 = 91	CES84 = 90
CES10 = 74	CES35 = 93	CES60 = 88	CES85 = 77
CES11 = 57	CES36 = 77	CES61 = 86	CES86 = 75
CES12 = 63	CES37 = 93	CES62 = 79	CES87 = 84
CES13 = 42	CES38 = 83	CES63 = 85	CES88 = 89
CES14 = 74	CES39 = 98	CES64 = 77	CES89 = 78
CES15 = 71	CES40 = 97	CES65 = 77	CES90 = 90
CES16 = 47	CES41 = 95	CES66 = 74	CES91 = 67
CES17 = 49	CES42 = 94	CES67 = 72	CES92 = 64
CES18 = 56	CES43 = 91	CES68 = 77	CES93 = 78
CES19 = 71	CES44 = 99	CES69 = 81	CES94 = 64
CES20 = 65	CES45 = 95	CES70 = 75	CES95 = 72
CES21 = 86	CES46 = 92	CES71 = 67	CES96 = 84
CES22 = 78	CES47 = 95	CES72 = 89	CES97 = 91
CES23 = 91	CES48 = 84	CES73 = 68	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 90	CES99 = 78
CES25 = 71	CES50 = 93	CES75 = 71	

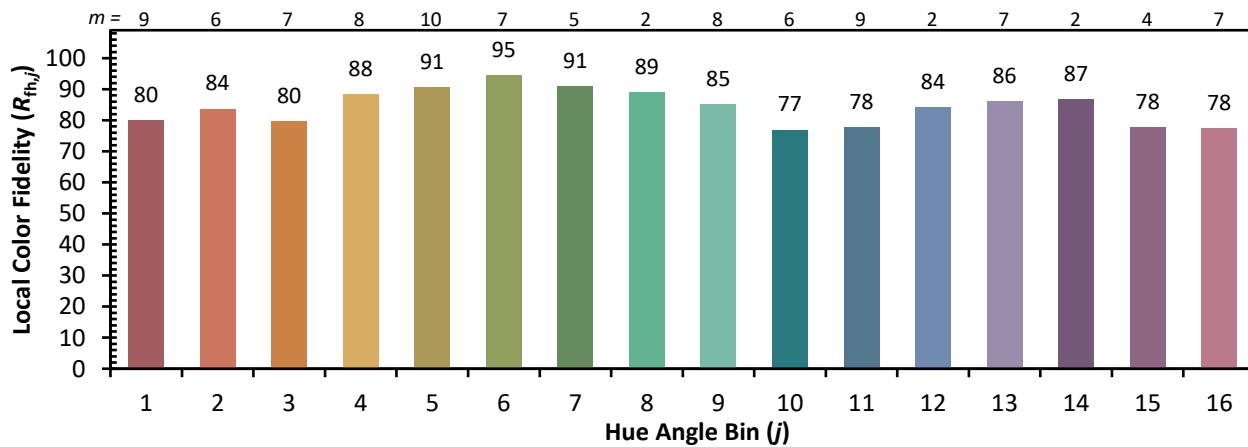
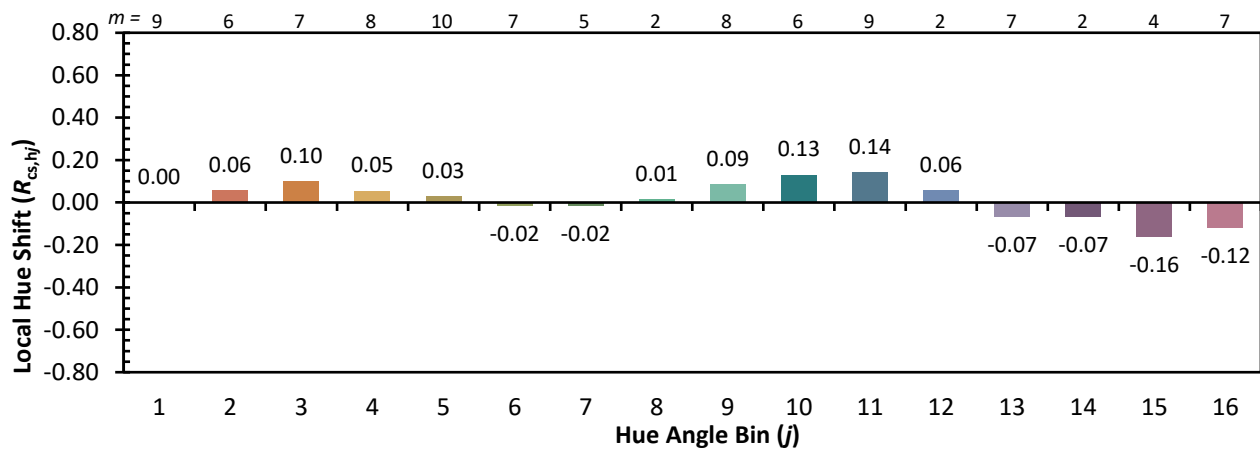
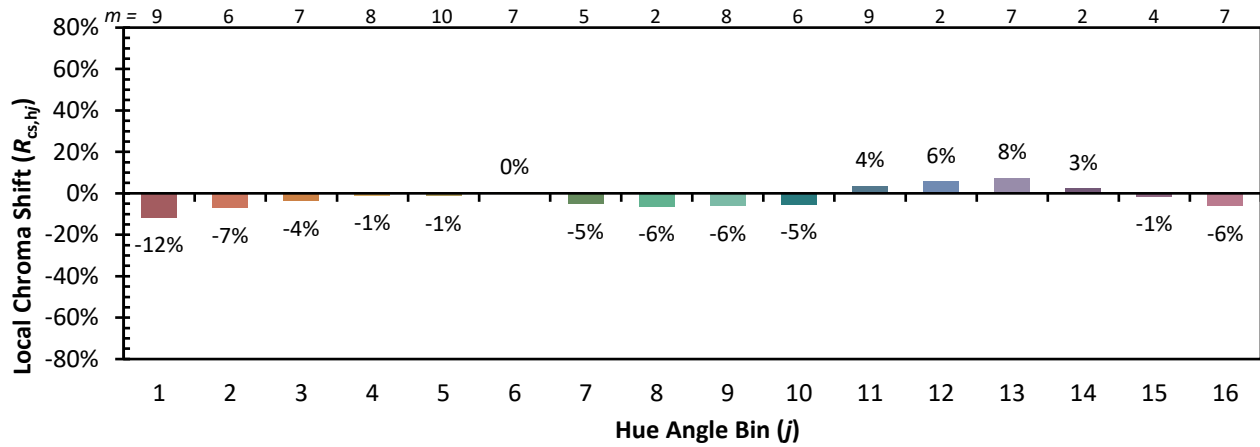




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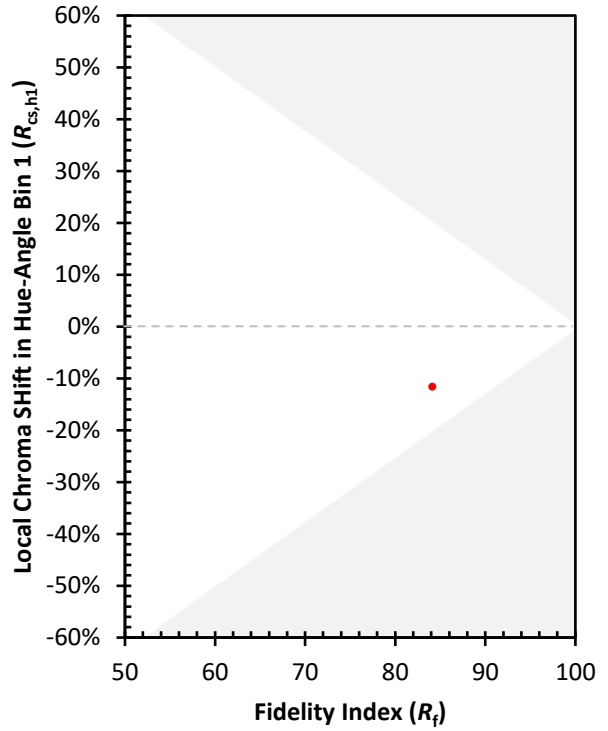
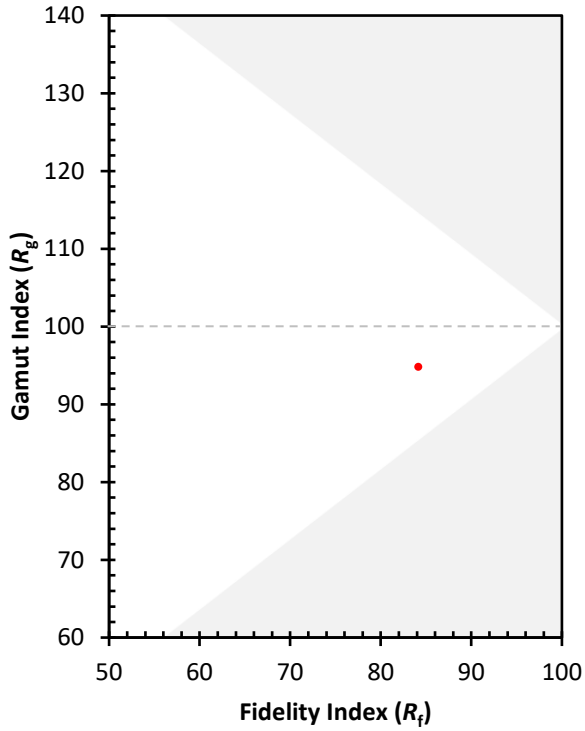
Color Rendition by Hue-Angle Bin



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Measure Comparisons





TEST NUMBER: P959005  
 CATALOG NUMBER: CB3-B-030U-030D-840-1D-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	12.44	13.25	13.45	14.26	15.61	11.37	12.17	12.37	13.18	14.54
	3H	14.11	14.83	15.12	15.85	17.22	12.77	13.49	13.79	14.52	15.89
	4H	14.73	15.41	15.76	16.44	17.82	13.29	13.97	14.32	15.00	16.38
	6H	15.12	15.74	16.16	16.78	18.17	13.60	14.23	14.64	15.26	16.65
	8H	15.25	15.85	16.30	16.90	18.28	13.73	14.32	14.77	15.37	16.76
	12H	15.32	15.88	16.37	16.93	18.34	13.80	14.37	14.85	15.41	16.82
4H	2H	12.84	13.53	13.88	14.55	15.93	11.99	12.67	13.02	13.69	15.07
	3H	14.73	15.30	15.77	16.35	17.75	13.60	14.17	14.64	15.22	16.62
	4H	15.48	16.00	16.53	17.04	18.46	14.20	14.72	15.26	15.77	17.19
	6H	15.98	16.42	17.04	17.49	18.90	14.61	15.06	15.67	16.13	17.54
	8H	16.17	16.58	17.23	17.65	19.07	14.78	15.20	15.84	16.26	17.69
	12H	16.26	16.64	17.34	17.71	19.14	14.88	15.26	15.96	16.34	17.77
8H	4H	15.60	16.02	16.66	17.08	18.51	14.46	14.88	15.52	15.94	17.37
	6H	16.22	16.56	17.30	17.67	19.09	14.99	15.33	16.07	16.44	17.86
	8H	16.49	16.80	17.59	17.88	19.33	15.24	15.54	16.33	16.63	18.07
	12H	16.65	16.92	17.75	18.00	19.49	15.41	15.68	16.51	16.76	18.24
12H	4H	15.57	15.95	16.65	17.02	18.46	14.46	14.84	15.54	15.91	17.34
	6H	16.23	16.54	17.33	17.62	19.07	15.04	15.35	16.14	16.43	17.88
	8H	16.53	16.80	17.63	17.88	19.36	15.32	15.59	16.42	16.67	18.16