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: METALUX

Report Number: P1432672

Luminaire Tested: EHBR1-30-UNV-W-L835-UPL36

Issue Date: 3/20/2026

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

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1432672
	REPORT IS A COMBINATION OF REPORTS P1431761 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-30-UNV-W-L835-UPL36
Description:	Elevate Round Highbay at, 30000 lumens, 3500K 80CRI LEDs with W lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	32919.4 lumens
Efficiency:	N/A
Efficacy:	174.9 lumens/watt
Spacing Criteria (0/90/45):	1.54 / 1.54 / 1.31
Luminous Opening:	Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type:	Semi-Direct

Input Watts (W):	188.2
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

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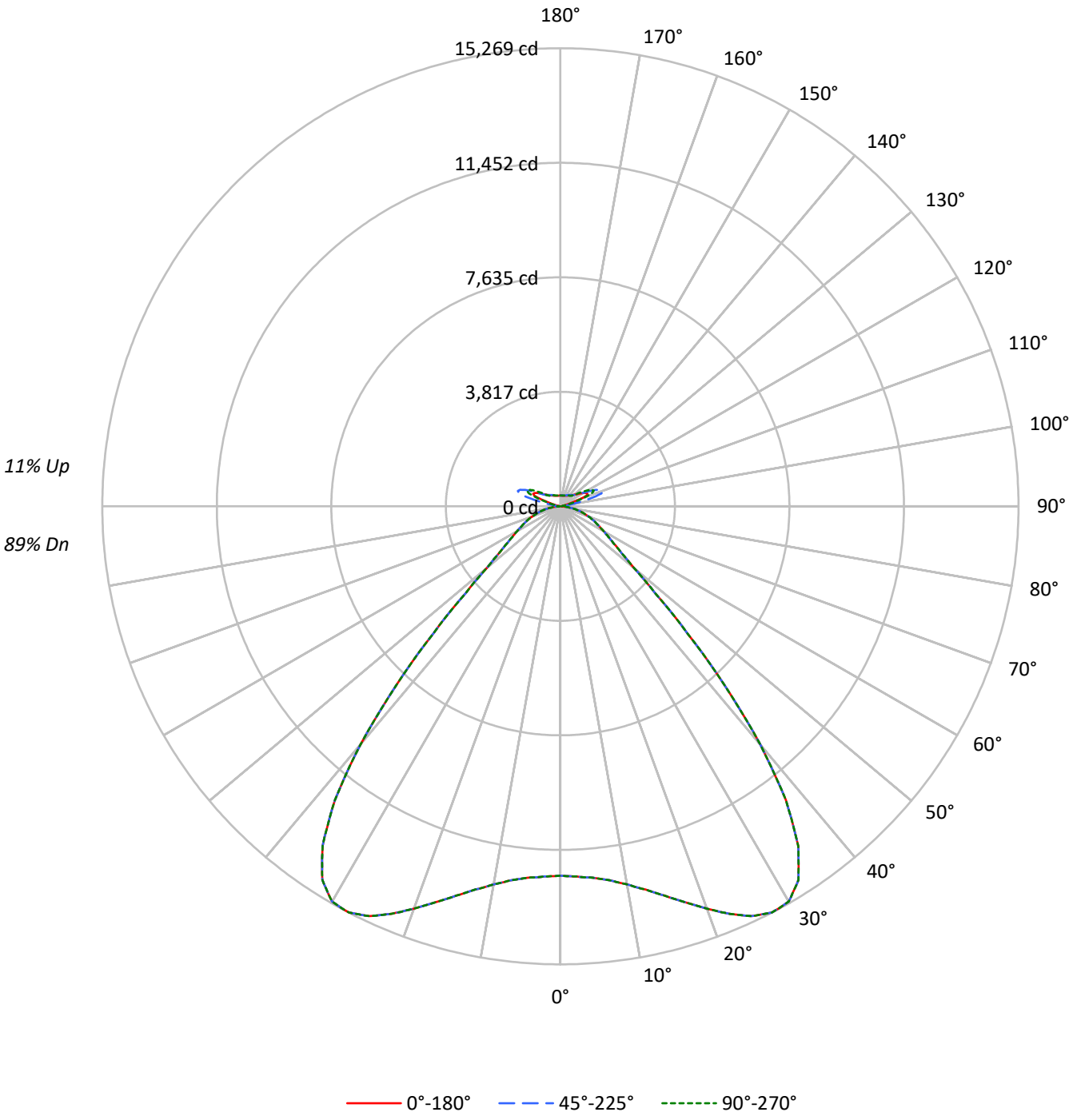
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	92	92	92	89
1	109	105	102	99	105	102	99	96	96	93	91	90	88	86	85	83	82	79
2	101	94	89	84	97	92	87	82	86	82	79	82	79	76	77	75	73	70
3	94	85	78	73	90	83	77	72	78	73	69	74	70	67	71	67	64	62
4	87	77	70	64	84	75	68	63	71	66	61	68	63	59	65	61	57	55
5	81	70	62	57	78	68	61	56	65	59	54	62	57	53	59	55	52	49
6	75	64	56	51	73	62	55	50	60	53	49	57	52	48	55	50	46	44
7	70	58	51	45	68	57	50	45	55	48	44	52	47	43	50	46	42	40
8	66	54	46	41	64	53	45	41	50	44	40	48	43	39	47	42	38	36
9	61	49	42	37	60	48	42	37	47	40	36	45	39	35	43	38	35	33
10	58	46	39	34	56	45	38	34	43	37	33	42	36	32	40	35	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	57821	57821	57821
5°	58205	58205	58205
10°	60227	60227	60227
15°	64044	64044	64044
20°	69425	69425	69425
25°	75472	75472	75472
30°	79107	79107	79107
35°	75297	75297	75297
40°	59748	59748	59748
45°	36930	36930	36930
50°	21384	21384	21384
55°	16180	16180	16180
60°	13879	13879	13879
65°	12535	12535	12535
70°	11531	11531	11531
75°	10188	10188	10188
80°	8303	8303	8303
85°	4894	4894	4894

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 36930 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1197.9	3.6
10°-20°	3840.5	11.7
20°-30°	6932.3	21.1
30°-40°	8376.9	25.4
40°-50°	4786.0	14.5
50°-60°	2027.0	6.2
60°-70°	1307.4	4.0
70°-80°	760.2	2.3
80°-90°	207.5	0.6
90°-100°	99.7	0.3
100°-110°	620.2	1.9
110°-120°	1108.5	3.4
120°-130°	651.2	2.0
130°-140°	401.5	1.2
140°-150°	280.3	0.9
150°-160°	182.9	0.6
160°-170°	104.7	0.3
170°-180°	34.7	0.1
0°-30°	11970.7	36.4
0°-40°	20347.6	61.8
0°-60°	27160.7	82.5
0°-90°	29435.8	89.4
90°-120°	1828.3	5.6
90°-150°	3161.4	9.6
90°-180°	3484.0	10.6
0°-180°	32919.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12313	12313	12313	12313	12313	
5°	12428	12428	12428	12428	12428	1198
15°	13436	13436	13436	13436	13436	3841
25°	15072	15072	15072	15072	15072	6932
35°	13820	13820	13820	13820	13820	8377
45°	5975	5975	5975	5975	5975	4786
55°	2186	2186	2186	2186	2186	2027
65°	1308	1308	1308	1308	1308	1307
75°	718	718	718	718	718	760
85°	168	168	168	168	168	194
90°	27	43	72	46	27	20
95°	45	74	162	80	50	43
105°	217	427	1090	471	286	291
115°	997	1049	1289	1235	1227	919
125°	720	672	690	700	785	656
135°	528	512	530	498	496	413
145°	437	431	457	451	449	277
155°	384	380	398	398	398	179
165°	361	361	371	371	369	103
175°	358	358	364	364	364	34
180°	363	363	363	363	363	

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TEST NUMBER: P1432672
CATALOG NUMBER: EHBR1-30-UNV-W-L835-UPL36

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12312.6	12312.6	12312.6	12312.6	12312.6
2.5°	12353.9	12353.9	12353.9	12353.9	12353.9
5°	12427.7	12427.7	12427.7	12427.7	12427.7
7.5°	12572.8	12572.8	12572.8	12572.8	12572.8
10°	12796.1	12796.1	12796.1	12796.1	12796.1
12.5°	13086.3	13086.3	13086.3	13086.3	13086.3
15°	13436.1	13436.1	13436.1	13436.1	13436.1
17.5°	13836.5	13836.5	13836.5	13836.5	13836.5
20°	14268.9	14268.9	14268.9	14268.9	14268.9
22.5°	14704.2	14704.2	14704.2	14704.2	14704.2
25°	15071.6	15071.6	15071.6	15071.6	15071.6
27.5°	15269.3	15269.3	15269.3	15269.3	15269.3
30°	15216.2	15216.2	15216.2	15216.2	15216.2
32.5°	14765.2	14765.2	14765.2	14765.2	14765.2
35°	13819.7	13819.7	13819.7	13819.7	13819.7
37.5°	12345.6	12345.6	12345.6	12345.6	12345.6
40°	10355.8	10355.8	10355.8	10355.8	10355.8
42.5°	8105.4	8105.4	8105.4	8105.4	8105.4
45°	5975.1	5975.1	5975.1	5975.1	5975.1
47.5°	4270.6	4270.6	4270.6	4270.6	4270.6
50°	3187.0	3187.0	3187.0	3187.0	3187.0
52.5°	2580.5	2580.5	2580.5	2580.5	2580.5
55°	2186.5	2186.5	2186.5	2186.5	2186.5
57.5°	1898.7	1898.7	1898.7	1898.7	1898.7
60°	1668.5	1668.5	1668.5	1668.5	1668.5
62.5°	1476.7	1476.7	1476.7	1476.7	1476.7
65°	1308.4	1308.4	1308.4	1308.4	1308.4
67.5°	1159.9	1159.9	1159.9	1159.9	1159.9
70°	1011.8	1011.8	1011.8	1011.8	1011.8
72.5°	864.3	864.3	864.3	864.3	864.3
75°	717.7	717.7	717.7	717.7	717.7
77.5°	576.5	576.5	576.5	576.5	576.5
80°	436.8	436.8	436.8	436.8	436.8
82.5°	299.5	299.5	299.5	299.5	299.5
85°	168.2	168.2	168.2	168.2	168.2
87.5°	53.1	53.1	53.1	53.1	53.1
90°	26.8	42.7	72.3	46.5	26.8
92.5°	38.2	64.0	115.5	60.0	34.2
95°	44.6	74.4	161.7	80.3	50.5
97.5°	56.5	82.3	185.4	98.1	78.4
100°	74.4	96.2	288.6	120.0	104.1
102.5°	126.0	203.3	611.9	225.1	157.7
105°	217.1	427.4	1089.9	471.1	286.5
107.5°	375.9	764.6	1437.0	834.0	542.5
110°	701.6	1015.0	1506.9	1145.9	868.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*947.6*	1090.3	1443.4	1264.9	1130.0
115°	*997.2*	1048.7	1288.7	1235.1	1227.3
117.5°	*963.4*	957.5	1094.3	1110.2	1185.6
120°	*892.0*	852.4	913.9	969.4	1070.6
122.5°	*802.7*	755.2	782.9	824.5	925.8
125°	*719.9*	672.3	690.2	700.1	785.4
127.5°	*646.6*	614.8	624.8	612.9	666.4
130°	*597.4*	569.7	583.6	555.8	581.6
132.5°	*556.9*	539.1	554.9	521.1	529.1
135°	*527.6*	511.7	529.6	497.8	495.9
137.5°	*502.3*	488.4	506.3	482.4	476.5
140°	*479.5*	467.6	487.4	469.5	465.6
142.5°	*454.2*	446.3	470.0	458.2	454.2
145°	*436.9*	430.8	456.6	450.7	448.7
147.5°	*421.4*	417.5	441.2	439.3	439.3
150°	*407.6*	403.6	427.4	425.4	427.4
152.5°	*393.7*	389.7	411.5	409.5	411.5
155°	*384.2*	380.2	398.1	398.1	398.1
157.5°	*376.2*	374.3	388.2	388.2	388.2
160°	*370.8*	368.9	380.7	380.7	378.8
162.5°	*365.4*	363.4	377.2	375.3	375.3
165°	*361.4*	361.4	371.3	371.3	369.4
167.5°	*361.4*	359.4	369.4	369.4	367.3
170°	*359.4*	359.4	367.3	365.4	363.4
172.5°	*359.9*	359.9	367.8	365.9	363.8
175°	*358.4*	358.4	364.3	364.3	364.3
177.5°	*360.3*	360.3	364.3	364.3	362.4
180°	*362.9*	362.9	362.9	362.9	362.9

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TEST NUMBER: P1432672
CATALOG NUMBER: EHBR1-30-UNV-W-L835-UPL36

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	17.76	18.90	18.30	19.42	19.99	17.76	18.90	18.30	19.42	19.99
	3H	19.25	20.26	19.81	20.80	21.42	19.25	20.26	19.81	20.80	21.42
	4H	19.81	20.76	20.39	21.31	21.94	19.81	20.76	20.39	21.31	21.94
	6H	20.19	21.06	20.78	21.63	22.27	20.19	21.06	20.78	21.63	22.27
	8H	20.29	21.11	20.89	21.70	22.35	20.29	21.11	20.89	21.70	22.35
	12H	20.33	21.11	20.93	21.69	22.36	20.33	21.11	20.93	21.69	22.36
4H	2H	18.20	19.14	18.77	19.69	20.32	18.20	19.14	18.77	19.69	20.32
	3H	19.91	20.69	20.50	21.28	21.93	19.91	20.69	20.50	21.28	21.93
	4H	20.59	21.29	21.19	21.89	22.57	20.59	21.29	21.19	21.89	22.57
	6H	21.08	21.68	21.71	22.31	23.01	21.08	21.68	21.71	22.31	23.01
	8H	21.21	21.78	21.85	22.40	23.11	21.21	21.78	21.85	22.40	23.11
	12H	21.27	21.77	21.92	22.43	23.14	21.27	21.77	21.92	22.43	23.14
8H	4H	20.79	21.35	21.42	21.98	22.68	20.79	21.35	21.42	21.98	22.68
	6H	21.38	21.84	22.05	22.52	23.23	21.38	21.84	22.05	22.52	23.23
	8H	21.57	21.98	22.25	22.66	23.39	21.57	21.98	22.25	22.66	23.39
	12H	21.67	22.04	22.35	22.70	23.50	21.67	22.04	22.35	22.70	23.50
12H	4H	20.78	21.28	21.43	21.94	22.65	20.78	21.28	21.43	21.94	22.65
	6H	21.40	21.81	22.08	22.49	23.22	21.40	21.81	22.08	22.49	23.22
	8H	21.62	21.98	22.30	22.65	23.44	21.62	21.98	22.30	22.65	23.44

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

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-472-3

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L835-N

Data in this report applies to families of products including EHBR-60-L835-N

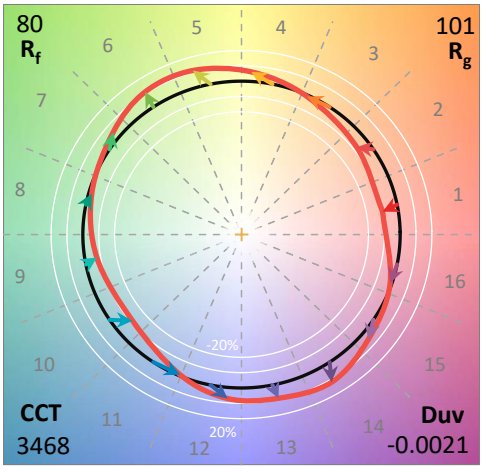
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-3
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/05/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Metalux
Catalog Number:	**EHBR-60-L835-N**
Description:	Elevate Round Highbay at, 60000 lumens, 3500K 80CRI LEDs with N lens

Spectral Parameters

CCT (K):	3468	CRI (Ra):	82.1		
CIE u':	0.2375	R1:	82.9	R9:	27.6
CIE v':	0.5091	R2:	85.6	R10:	63.8
Duv:	-0.0021	R3:	85.9	R11:	81.2
CIE x:	0.4049	R4:	82.8	R12:	57.2
CIE y:	0.3856	R5:	81.0	R13:	82.6
CIE z:	0.2095	R6:	79.7	R14:	91.0
Peak Wavelength (nm):	630	R7:	86.5	R15:	79.4
Dominant Wavelength (nm):	581	R8:	72.1		
Purity:	37.24544				
Rf:	80.1				
Rg:	101				



Test Conditions

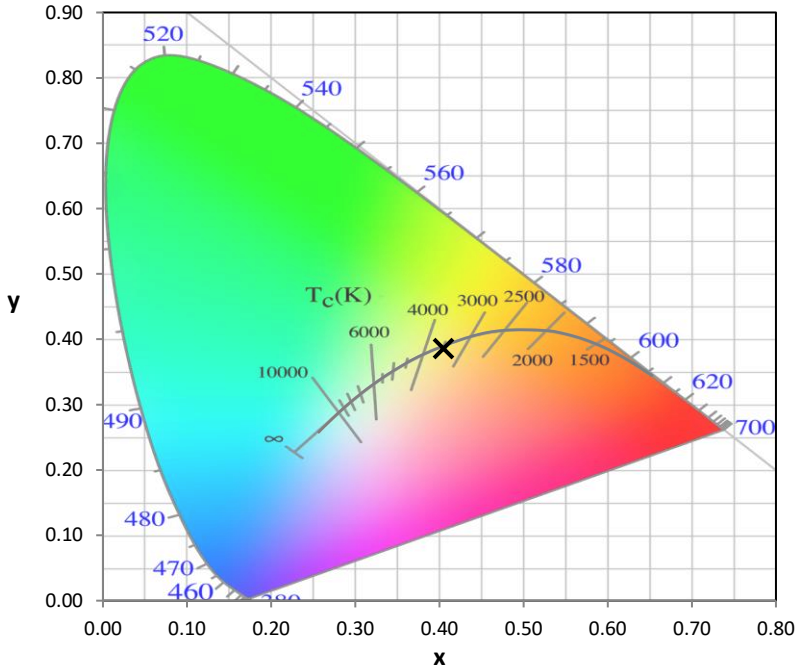
Stabilization Time:	39M
Operation Time:	1H 39M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-3

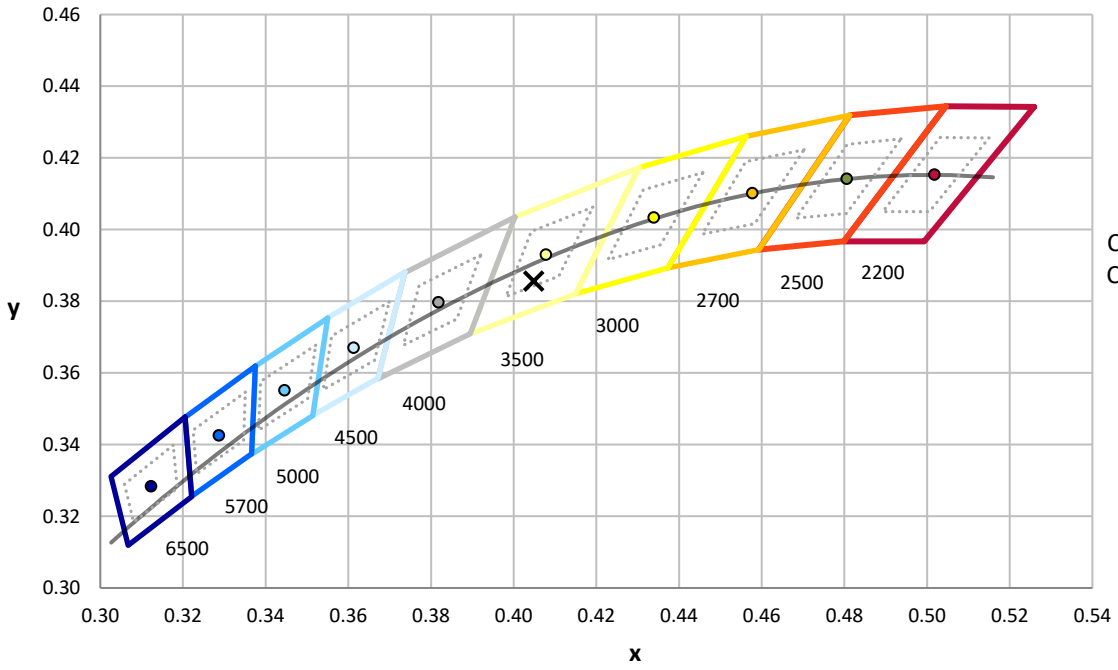
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-472-3

CIE 1931 Chromaticity Diagram



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

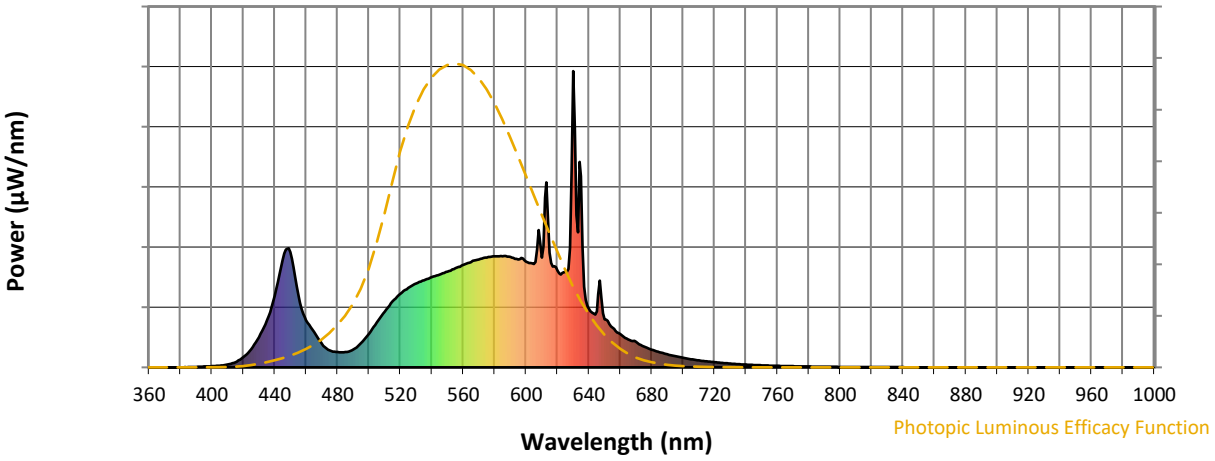


CCT = 3468K
CIE x = 0.4049
CIE y = 0.3856
Duv = -0.0021

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-3

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	60	NR	620	327	NR	750	7	NR	880	0	NR
365	0	NR	495	82	NR	625	322	NR	755	6	NR	885	0	NR
370	0	NR	500	114	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	152	NR	635	645	NR	765	4	NR	895	0	NR
380	0	NR	510	189	NR	640	197	NR	770	4	NR	900	0	NR
385	1	NR	515	222	NR	645	189	NR	775	3	NR	905	0	NR
390	2	NR	520	248	NR	650	163	NR	780	3	NR	910	0	NR
395	3	NR	525	268	NR	655	134	NR	785	2	NR	915	0	NR
400	4	NR	530	283	NR	660	113	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	94	NR	795	2	NR	925	0	NR
410	9	NR	540	305	NR	670	87	NR	800	2	NR	930	0	NR
415	18	NR	545	314	NR	675	70	NR	805	1	NR	935	0	NR
420	34	NR	550	323	NR	680	60	NR	810	1	NR	940	0	NR
425	62	NR	555	335	NR	685	51	NR	815	1	NR	945	0	NR
430	102	NR	560	346	NR	690	44	NR	820	1	NR	950	0	NR
435	159	NR	565	356	NR	695	38	NR	825	1	NR	955	0	NR
440	241	NR	570	364	NR	700	32	NR	830	1	NR	960	0	NR
445	363	NR	575	371	NR	705	28	NR	835	1	NR	965	0	NR
450	389	NR	580	375	NR	710	24	NR	840	1	NR	970	0	NR
455	245	NR	585	375	NR	715	20	NR	845	0	NR	975	0	NR
460	158	NR	590	373	NR	720	17	NR	850	0	NR	980	0	NR
465	120	NR	595	364	NR	725	15	NR	855	0	NR	985	0	NR
470	79	NR	600	357	NR	730	13	NR	860	0	NR	990	0	NR
475	57	NR	605	349	NR	735	11	NR	865	0	NR	995	0	NR
480	51	NR	610	371	NR	740	9	NR	870	0	NR	1000	0	NR
485	51	NR	615	387	NR	745	8	NR	875	0	NR			

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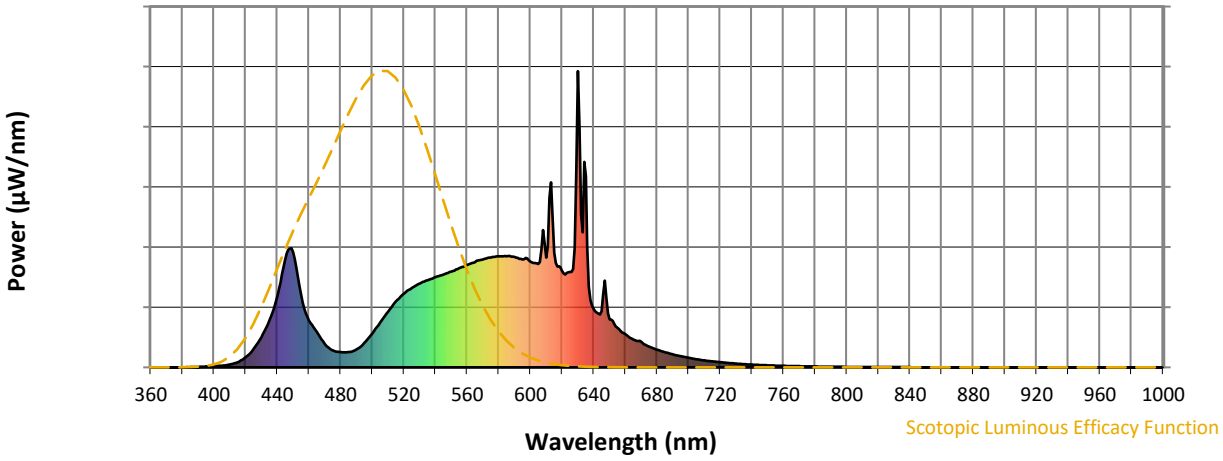
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.43**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	60	NR	620	327	NR	750	7	NR	880	0	NR
365	0	NR	495	82	NR	625	322	NR	755	6	NR	885	0	NR
370	0	NR	500	114	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	152	NR	635	645	NR	765	4	NR	895	0	NR
380	0	NR	510	189	NR	640	197	NR	770	4	NR	900	0	NR
385	1	NR	515	222	NR	645	189	NR	775	3	NR	905	0	NR
390	2	NR	520	248	NR	650	163	NR	780	3	NR	910	0	NR
395	3	NR	525	268	NR	655	134	NR	785	2	NR	915	0	NR
400	4	NR	530	283	NR	660	113	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	94	NR	795	2	NR	925	0	NR
410	9	NR	540	305	NR	670	87	NR	800	2	NR	930	0	NR
415	18	NR	545	314	NR	675	70	NR	805	1	NR	935	0	NR
420	34	NR	550	323	NR	680	60	NR	810	1	NR	940	0	NR
425	62	NR	555	335	NR	685	51	NR	815	1	NR	945	0	NR
430	102	NR	560	346	NR	690	44	NR	820	1	NR	950	0	NR
435	159	NR	565	356	NR	695	38	NR	825	1	NR	955	0	NR
440	241	NR	570	364	NR	700	32	NR	830	1	NR	960	0	NR
445	363	NR	575	371	NR	705	28	NR	835	1	NR	965	0	NR
450	389	NR	580	375	NR	710	24	NR	840	1	NR	970	0	NR
455	245	NR	585	375	NR	715	20	NR	845	0	NR	975	0	NR
460	158	NR	590	373	NR	720	17	NR	850	0	NR	980	0	NR
465	120	NR	595	364	NR	725	15	NR	855	0	NR	985	0	NR
470	79	NR	600	357	NR	730	13	NR	860	0	NR	990	0	NR
475	57	NR	605	349	NR	735	11	NR	865	0	NR	995	0	NR
480	51	NR	610	371	NR	740	9	NR	870	0	NR	1000	0	NR
485	51	NR	615	387	NR	745	8	NR	875	0	NR			

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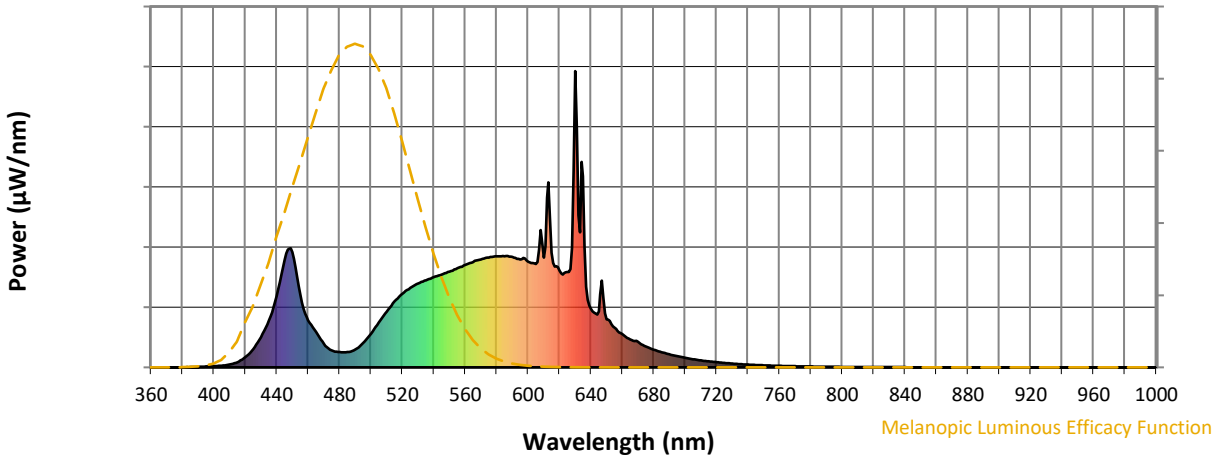
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.75**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	60	NR	620	327	NR	750	7	NR	880	0	NR
365	0	NR	495	82	NR	625	322	NR	755	6	NR	885	0	NR
370	0	NR	500	114	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	152	NR	635	645	NR	765	4	NR	895	0	NR
380	0	NR	510	189	NR	640	197	NR	770	4	NR	900	0	NR
385	1	NR	515	222	NR	645	189	NR	775	3	NR	905	0	NR
390	2	NR	520	248	NR	650	163	NR	780	3	NR	910	0	NR
395	3	NR	525	268	NR	655	134	NR	785	2	NR	915	0	NR
400	4	NR	530	283	NR	660	113	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	94	NR	795	2	NR	925	0	NR
410	9	NR	540	305	NR	670	87	NR	800	2	NR	930	0	NR
415	18	NR	545	314	NR	675	70	NR	805	1	NR	935	0	NR
420	34	NR	550	323	NR	680	60	NR	810	1	NR	940	0	NR
425	62	NR	555	335	NR	685	51	NR	815	1	NR	945	0	NR
430	102	NR	560	346	NR	690	44	NR	820	1	NR	950	0	NR
435	159	NR	565	356	NR	695	38	NR	825	1	NR	955	0	NR
440	241	NR	570	364	NR	700	32	NR	830	1	NR	960	0	NR
445	363	NR	575	371	NR	705	28	NR	835	1	NR	965	0	NR
450	389	NR	580	375	NR	710	24	NR	840	1	NR	970	0	NR
455	245	NR	585	375	NR	715	20	NR	845	0	NR	975	0	NR
460	158	NR	590	373	NR	720	17	NR	850	0	NR	980	0	NR
465	120	NR	595	364	NR	725	15	NR	855	0	NR	985	0	NR
470	79	NR	600	357	NR	730	13	NR	860	0	NR	990	0	NR
475	57	NR	605	349	NR	735	11	NR	865	0	NR	995	0	NR
480	51	NR	610	371	NR	740	9	NR	870	0	NR	1000	0	NR
485	51	NR	615	387	NR	745	8	NR	875	0	NR			

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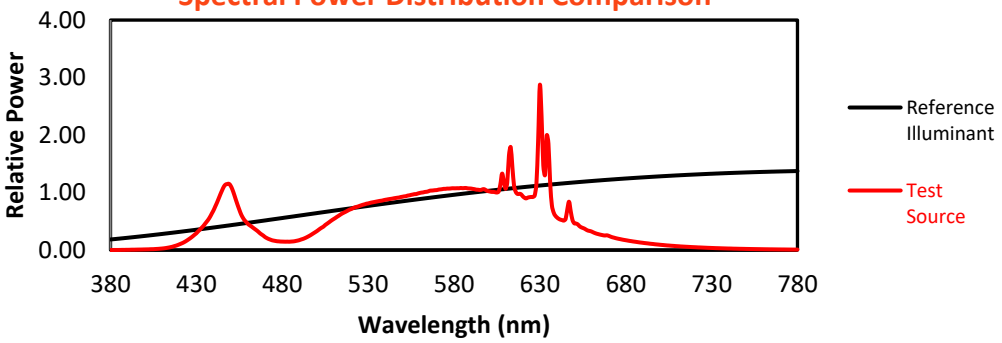
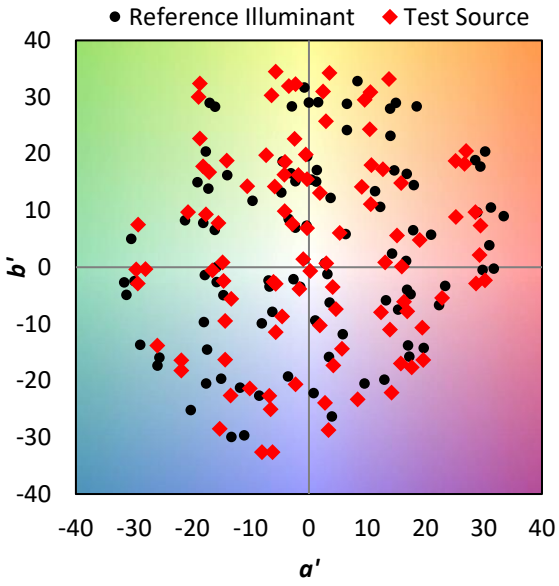
Summary

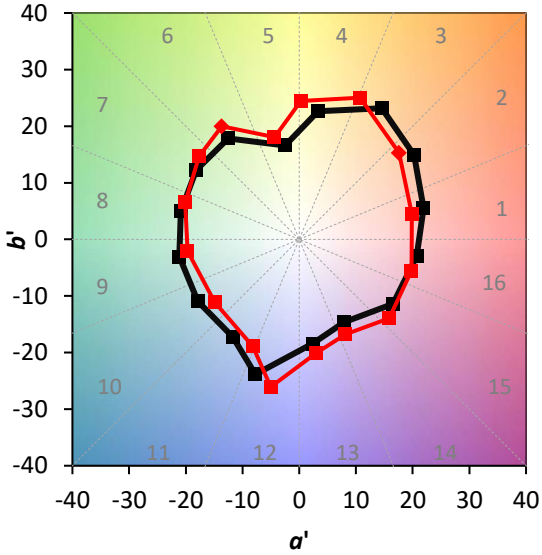
R_f = 80.1
R_g = 101
CIE R_a = 82.1
R_9 = 27.6

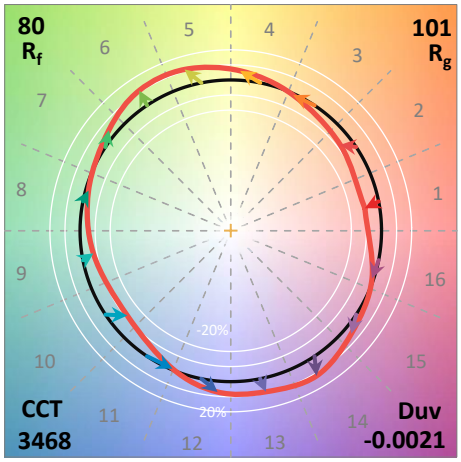
Spectral Power Distribution Comparison

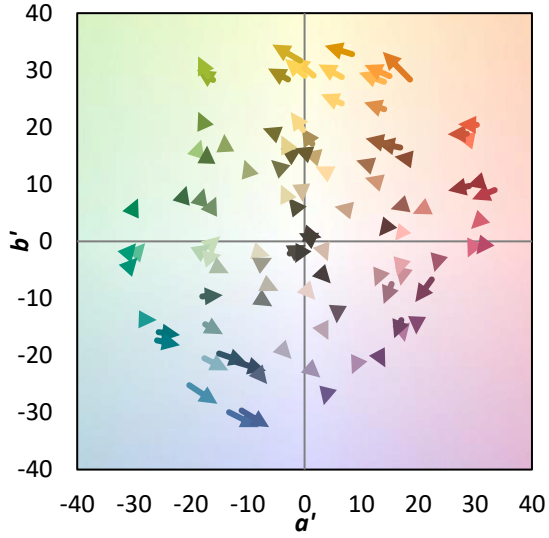


Color Vector Graphics









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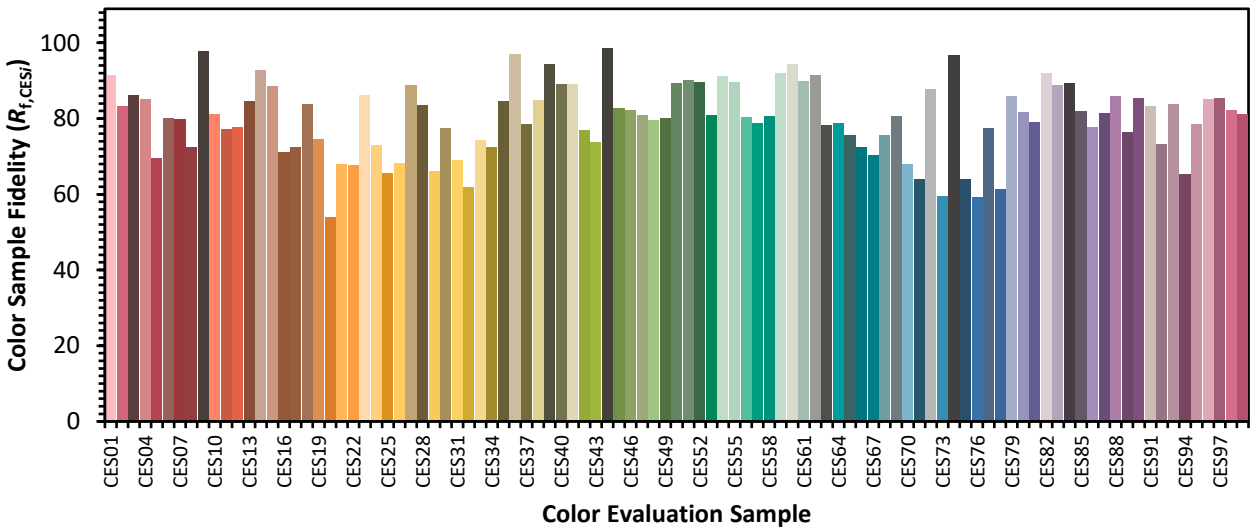
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 68	CES51 = 90	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 90	CES77 = 78
CES03 = 31	CES28 = 84	CES53 = 81	CES78 = 61
CES04 = 70	CES29 = 66	CES54 = 91	CES79 = 86
CES05 = 49	CES30 = 77	CES55 = 90	CES80 = 82
CES06 = 51	CES31 = 69	CES56 = 80	CES81 = 79
CES07 = 42	CES32 = 62	CES57 = 79	CES82 = 92
CES08 = 41	CES33 = 74	CES58 = 81	CES83 = 89
CES09 = 29	CES34 = 72	CES59 = 92	CES84 = 89
CES10 = 75	CES35 = 85	CES60 = 94	CES85 = 82
CES11 = 58	CES36 = 97	CES61 = 90	CES86 = 78
CES12 = 64	CES37 = 79	CES62 = 92	CES87 = 82
CES13 = 43	CES38 = 85	CES63 = 78	CES88 = 86
CES14 = 74	CES39 = 94	CES64 = 79	CES89 = 76
CES15 = 71	CES40 = 89	CES65 = 76	CES90 = 85
CES16 = 47	CES41 = 89	CES66 = 73	CES91 = 83
CES17 = 49	CES42 = 77	CES67 = 70	CES92 = 73
CES18 = 56	CES43 = 74	CES68 = 76	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 81	CES94 = 65
CES20 = 66	CES45 = 83	CES70 = 68	CES95 = 79
CES21 = 86	CES46 = 82	CES71 = 64	CES96 = 85
CES22 = 78	CES47 = 81	CES72 = 88	CES97 = 85
CES23 = 92	CES48 = 80	CES73 = 60	CES98 = 82
CES24 = 91	CES49 = 80	CES74 = 97	CES99 = 81
CES25 = 72	CES50 = 89	CES75 = 64	



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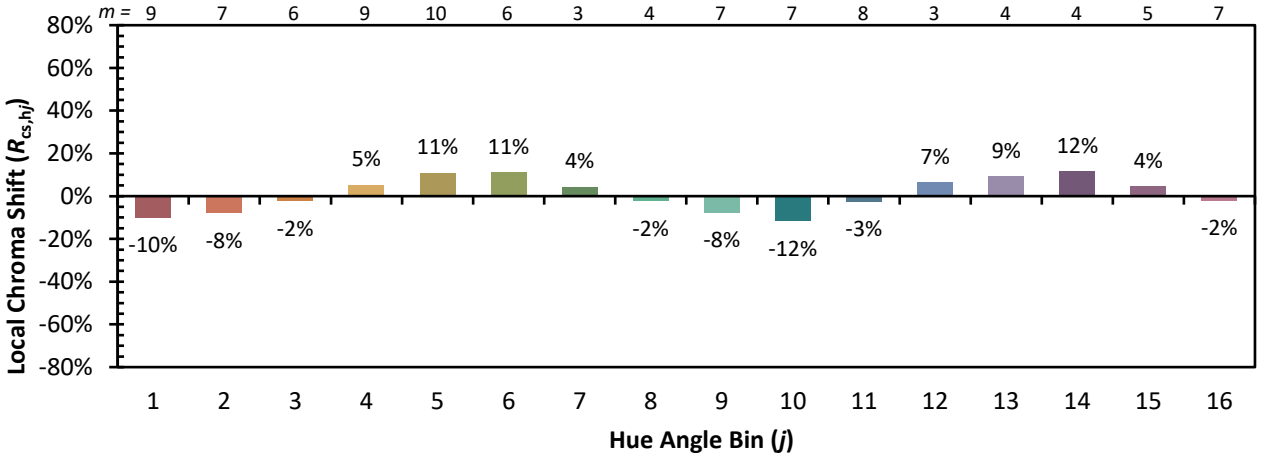
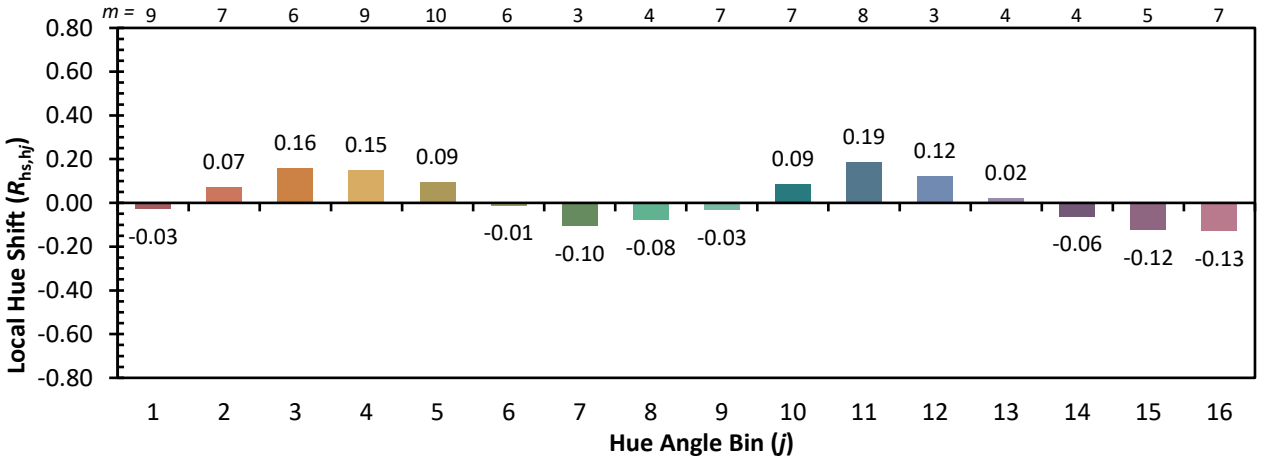
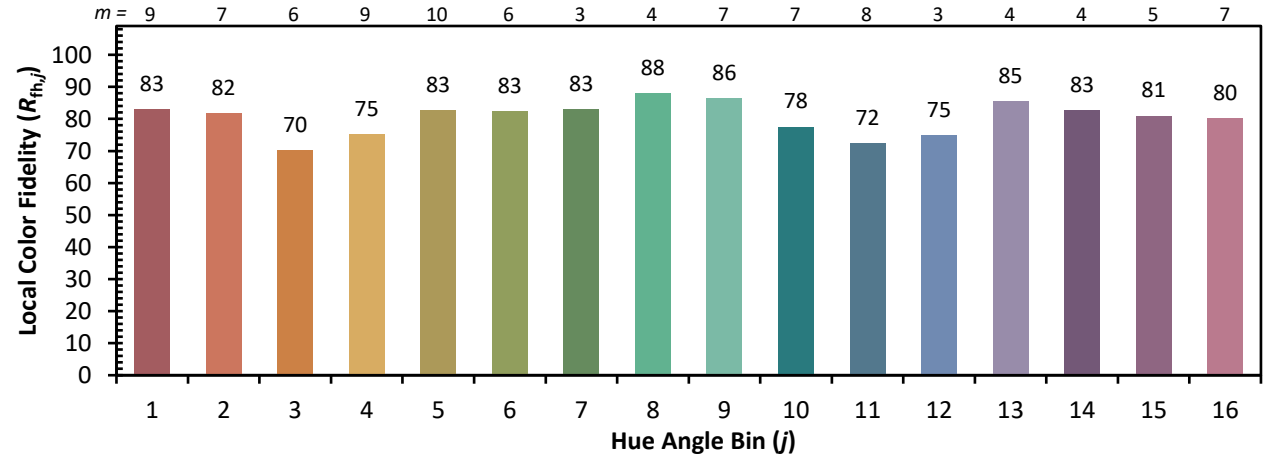
Color Rendition by Hue-Angle Bin







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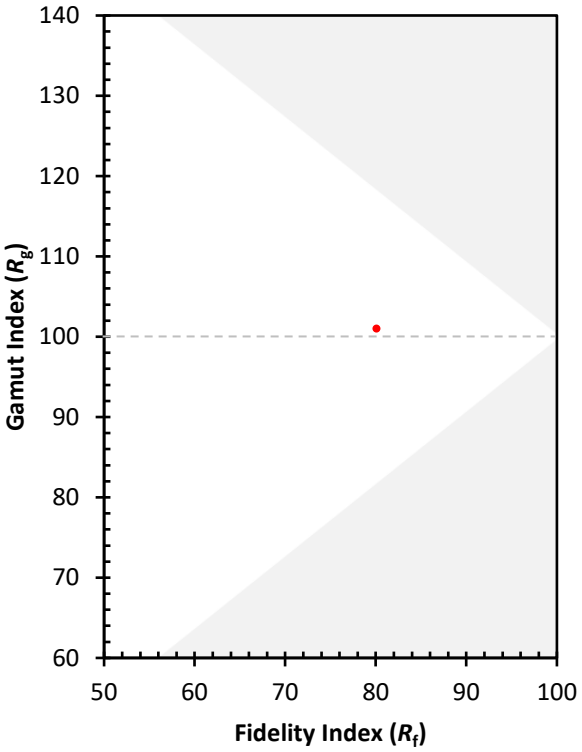
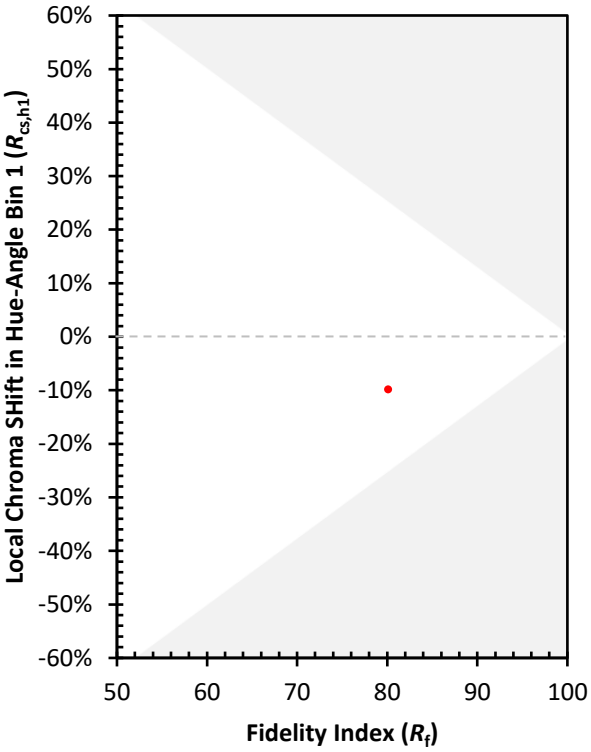
Measure Comparisons





(END OF REPORT)