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: P1436677

Luminaire Tested: EHBR1-48-UNV-M-L950-UPL18

Issue Date: 3/25/2026

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:	P1436677
	REPORT IS A COMBINATION OF REPORTS P1436101 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/25/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-48-UNV-M-L950-UPL18
Description:	Elevate Round Highbay at, 48000 lumens, 5000K 90CRI LEDs with M lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	46385.5 lumens
Efficiency:	N/A
Efficacy:	171.5 lumens/watt
Spacing Criteria (0/90/45):	1.21 / 1.21 / 1.15
Luminous Opening:	Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type:	Direct

Input Watts (W):	270.5
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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Scaled Data Report

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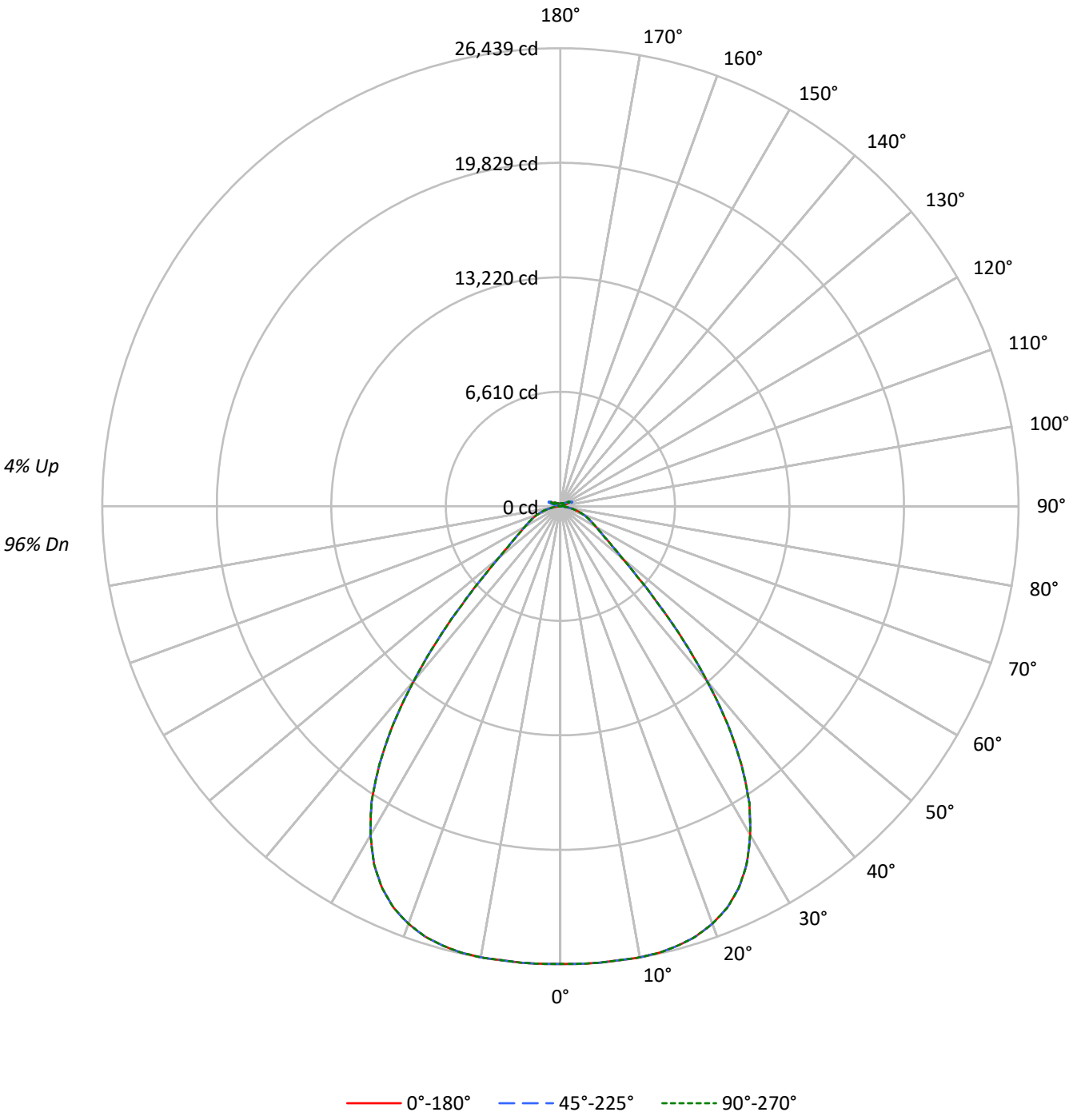
Luminous Intensity Polar Plot



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Scaled Data Report

TEST NUMBER: P1436677
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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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	111	107	104	101	108	105	102	99	100	97	95	95	94	92	91	90	89	86
2	103	97	92	87	101	95	90	86	91	87	84	87	84	81	84	81	79	77
3	96	88	82	77	94	86	80	76	83	78	74	80	76	72	77	74	71	69
4	90	80	73	68	87	79	72	67	76	70	66	73	69	65	71	67	64	62
5	84	73	66	61	82	72	65	60	70	64	59	68	63	58	66	61	58	56
6	78	67	60	55	77	66	59	54	64	58	54	63	57	53	61	56	52	51
7	74	62	55	50	72	61	54	49	60	53	49	58	52	48	56	52	48	46
8	69	58	50	45	68	57	50	45	55	49	45	54	48	44	53	48	44	42
9	65	53	46	42	64	53	46	41	51	45	41	50	45	41	49	44	40	39
10	61	50	43	38	60	49	43	38	48	42	38	47	41	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	124038	124038	124038
5°	123826	123826	123826
10°	124408	124408	124408
15°	125122	125122	125122
20°	124744	124744	124744
25°	121831	121831	121831
30°	113920	113920	113920
35°	99214	99214	99214
40°	76036	76036	76036
45°	49672	49672	49672
50°	31314	31314	31314
55°	23343	23343	23343
60°	19652	19652	19652
65°	17870	17870	17870
70°	16279	16279	16279
75°	13937	13937	13937
80°	10732	10732	10732
85°	5627	5627	5627

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 49672 cd/sqm

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TEST NUMBER: P1436677
CATALOG NUMBER: EHBR1-48-UNV-M-L950-UPL18

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2522.7	5.4
10°-20°	7408.4	16.0
20°-30°	11116.0	24.0
30°-40°	11183.9	24.1
40°-50°	6401.9	13.8
50°-60°	2928.1	6.3
60°-70°	1857.8	4.0
70°-80°	1042.1	2.2
80°-90°	247.5	0.5
90°-100°	47.8	0.1
100°-110°	299.7	0.6
110°-120°	535.8	1.2
120°-130°	314.4	0.7
130°-140°	192.9	0.4
140°-150°	133.8	0.3
150°-160°	86.9	0.2
160°-170°	49.5	0.1
170°-180°	16.4	0.0
0°-30°	21047.1	45.4
0°-40°	32231.0	69.5
0°-60°	41561.0	89.6
0°-90°	44708.4	96.4
90°-120°	883.3	1.9
90°-150°	1524.3	3.3
90°-180°	1677.0	3.6
0°-180°	46385.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26413	26413	26413	26413	26413	
5°	26439	26439	26439	26439	26439	2523
15°	26250	26250	26250	26250	26250	7408
25°	24330	24330	24330	24330	24330	11116
35°	18209	18209	18209	18209	18209	11184
45°	8037	8037	8037	8037	8037	6402
55°	3155	3155	3155	3155	3155	2928
65°	1865	1865	1865	1865	1865	1858
75°	982	982	982	982	982	1042
85°	193	193	193	193	193	237
90°	12	20	35	22	12	13
95°	21	36	78	38	24	20
105°	105	206	527	228	138	140
115°	482	507	623	597	593	444
125°	348	324	333	338	379	317
135°	254	246	254	239	238	198
145°	208	205	218	215	214	132
155°	182	180	189	189	189	85
165°	171	171	176	176	175	49
175°	169	169	172	172	172	16
180°	171	171	171	171	171	

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TEST NUMBER: P1436677
CATALOG NUMBER: EHBR1-48-UNV-M-L950-UPL18

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	26413.1	26413.1	26413.1	26413.1	26413.1
2.5°	26426.0	26426.0	26426.0	26426.0	26426.0
5°	26438.8	26438.8	26438.8	26438.8	26438.8
7.5°	26420.7	26420.7	26420.7	26420.7	26420.7
10°	26432.1	26432.1	26432.1	26432.1	26432.1
12.5°	26386.6	26386.6	26386.6	26386.6	26386.6
15°	26249.9	26249.9	26249.9	26249.9	26249.9
17.5°	26023.9	26023.9	26023.9	26023.9	26023.9
20°	25638.5	25638.5	25638.5	25638.5	25638.5
22.5°	25108.7	25108.7	25108.7	25108.7	25108.7
25°	24329.5	24329.5	24329.5	24329.5	24329.5
27.5°	23281.2	23281.2	23281.2	23281.2	23281.2
30°	21912.5	21912.5	21912.5	21912.5	21912.5
32.5°	20292.2	20292.2	20292.2	20292.2	20292.2
35°	18209.3	18209.3	18209.3	18209.3	18209.3
37.5°	15849.9	15849.9	15849.9	15849.9	15849.9
40°	13178.9	13178.9	13178.9	13178.9	13178.9
42.5°	10531.5	10531.5	10531.5	10531.5	10531.5
45°	8036.8	8036.8	8036.8	8036.8	8036.8
47.5°	6049.8	6049.8	6049.8	6049.8	6049.8
50°	4666.9	4666.9	4666.9	4666.9	4666.9
52.5°	3770.5	3770.5	3770.5	3770.5	3770.5
55°	3154.6	3154.6	3154.6	3154.6	3154.6
57.5°	2701.1	2701.1	2701.1	2701.1	2701.1
60°	2362.5	2362.5	2362.5	2362.5	2362.5
62.5°	2101.0	2101.0	2101.0	2101.0	2101.0
65°	1865.2	1865.2	1865.2	1865.2	1865.2
67.5°	1648.3	1648.3	1648.3	1648.3	1648.3
70°	1428.4	1428.4	1428.4	1428.4	1428.4
72.5°	1206.9	1206.9	1206.9	1206.9	1206.9
75°	981.8	981.8	981.8	981.8	981.8
77.5°	767.8	767.8	767.8	767.8	767.8
80°	564.6	564.6	564.6	564.6	564.6
82.5°	368.0	368.0	368.0	368.0	368.0
85°	193.4	193.4	193.4	193.4	193.4
87.5°	55.2	55.2	55.2	55.2	55.2
90°	12.5	20.1	34.6	22.1	12.5
92.5°	18.3	30.7	55.6	28.8	16.3
95°	21.1	35.5	77.7	38.4	24.0
97.5°	26.9	39.3	89.3	47.0	37.5
100°	35.5	46.1	139.2	57.6	49.9
102.5°	60.5	97.9	295.7	108.5	75.9
105°	104.6	206.5	527.1	227.5	138.3
107.5°	181.4	369.6	695.0	403.3	262.1
110°	338.9	490.6	728.7	554.0	419.6

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CATALOG NUMBER: EHBR1-48-UNV-M-L950-UPL18

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*458.0*	527.1	697.9	611.6	546.3
115°	*481.9*	506.9	623.1	597.2	593.3
117.5°	*465.6*	462.7	529.0	536.6	573.2
120°	*431.1*	411.9	441.7	468.5	517.4
122.5°	*387.9*	364.8	378.2	398.4	447.4
125°	*347.5*	324.5	333.1	338.0	379.2
127.5°	*312.0*	296.7	301.4	295.7	321.6
130°	*288.0*	274.5	281.3	267.9	280.4
132.5°	*267.9*	259.2	266.9	250.6	254.4
135°	*253.5*	245.8	254.4	239.0	238.1
137.5°	*241.0*	234.3	242.9	231.4	228.5
140°	*229.5*	223.7	233.3	224.6	222.7
142.5°	*216.9*	213.1	224.6	218.9	216.9
145°	*208.3*	205.4	218.0	215.1	214.1
147.5°	*200.6*	198.8	210.3	209.3	209.3
150°	*193.9*	192.0	203.5	202.6	203.5
152.5°	*187.2*	185.3	195.9	194.9	195.9
155°	*182.4*	180.5	189.1	189.1	189.1
157.5°	*178.5*	177.6	184.3	184.3	184.3
160°	*175.7*	174.7	180.5	180.5	179.6
162.5°	*172.8*	171.9	178.5	177.6	177.6
165°	*170.9*	170.9	175.7	175.7	174.7
167.5°	*170.9*	169.9	174.7	174.7	173.8
170°	*169.9*	169.9	173.8	172.8	171.9
172.5°	*169.9*	169.9	173.8	172.8	171.9
175°	*169.0*	169.0	171.9	171.9	171.9
177.5°	*169.9*	169.9	171.9	171.9	170.9
180°	*170.9*	170.9	170.9	170.9	170.9

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TEST NUMBER: P1436677
CATALOG NUMBER: EHBR1-48-UNV-M-L950-UPL18

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	19.33	20.55	19.76	20.94	21.35	19.33	20.55	19.76	20.94	21.35
	3H	20.82	21.90	21.27	22.31	22.76	20.82	21.90	21.27	22.31	22.76
	4H	21.35	22.35	21.81	22.78	23.25	21.35	22.35	21.81	22.78	23.25
	6H	21.67	22.60	22.15	23.04	23.52	21.67	22.60	22.15	23.04	23.52
	8H	21.74	22.62	22.24	23.08	23.57	21.74	22.62	22.24	23.08	23.57
	12H	21.76	22.59	22.25	23.05	23.57	21.76	22.59	22.25	23.05	23.57
4H	2H	19.78	20.78	20.25	21.21	21.68	19.78	20.78	20.25	21.21	21.68
	3H	21.48	22.30	21.95	22.78	23.27	21.48	22.30	21.95	22.78	23.27
	4H	22.11	22.85	22.61	23.33	23.86	22.11	22.85	22.61	23.33	23.86
	6H	22.53	23.17	23.06	23.68	24.24	22.53	23.17	23.06	23.68	24.24
	8H	22.63	23.22	23.16	23.74	24.29	22.63	23.22	23.16	23.74	24.29
	12H	22.66	23.18	23.21	23.73	24.29	22.66	23.18	23.21	23.73	24.29
8H	4H	22.29	22.88	22.82	23.39	23.95	22.29	22.88	22.82	23.39	23.95
	6H	22.80	23.28	23.36	23.84	24.41	22.80	23.28	23.36	23.84	24.41
	8H	22.94	23.37	23.52	23.95	24.52	22.94	23.37	23.52	23.95	24.52
	12H	23.00	23.38	23.58	23.94	24.60	23.00	23.38	23.58	23.94	24.60
12H	4H	22.28	22.80	22.82	23.35	23.91	22.28	22.80	22.82	23.35	23.91
	6H	22.80	23.23	23.38	23.81	24.39	22.80	23.23	23.38	23.81	24.39
	8H	22.97	23.35	23.55	23.91	24.56	22.97	23.35	23.55	23.91	24.56

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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: SP1-2506-472-8

Test Date: 08/04/2025

Luminaire Tested: EHBR-60-L950-N

Data in this report applies to families of products including EHBR-60-L950-N

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

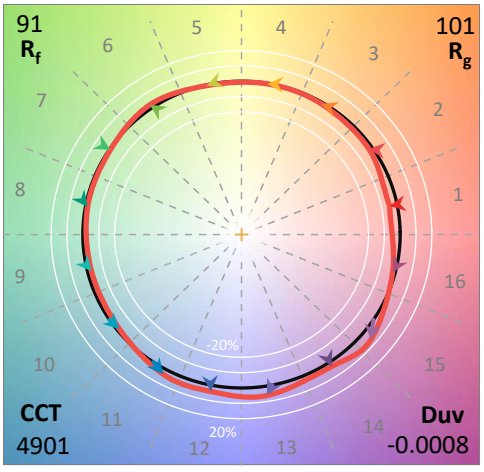
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-8
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-L950-N**
Description:	Elevate Round Highbay at, 60000 lumens, 5000K 90CRI LEDs with N lens

Spectral Parameters

CCT (K):	4901
CIE u':	0.2131
CIE v':	0.4853
Duv:	-0.0008
CIE x:	0.3477
CIE y:	0.3520
CIE z:	0.3003
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	574
Purity:	9.953987
Rf:	90.7
Rg:	100.5

CRI (Ra):	94.3				
R1:	95.8	R9:	72.3
R2:	96.5	R10:	89.1
R3:	94.4	R11:	94.9
R4:	95.3	R12:	68.4
R5:	94.1	R13:	96.4
R6:	92.5	R14:	96.4
R7:	95.5	R15:	93.9
R8:	90.1		



Test Conditions

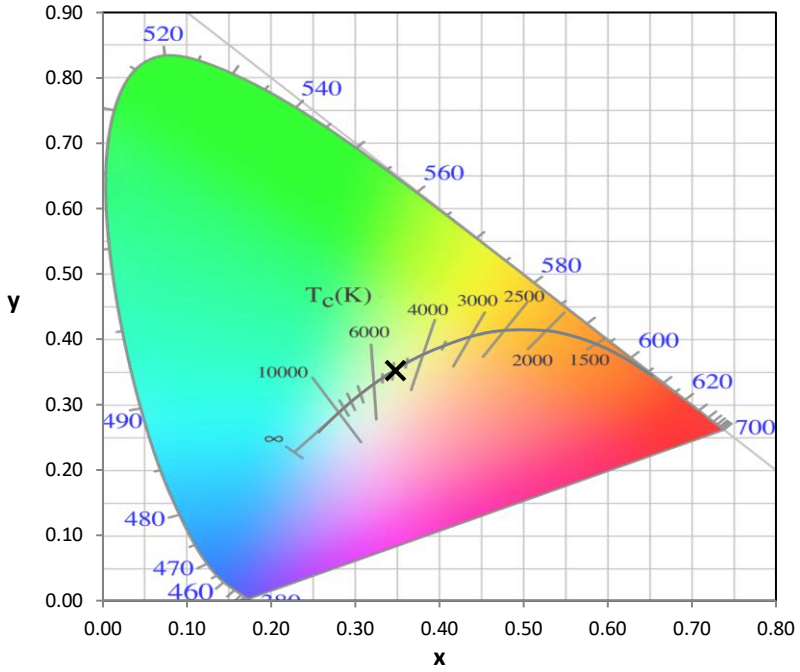
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-8

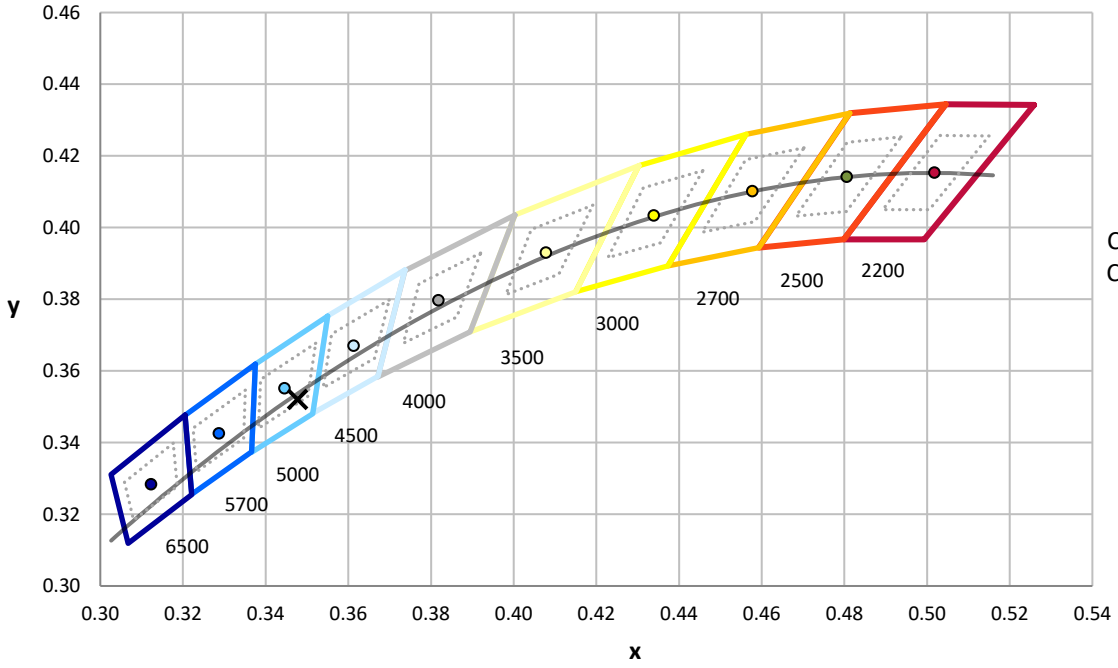
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-472-8

CIE 1931 Chromaticity Diagram



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

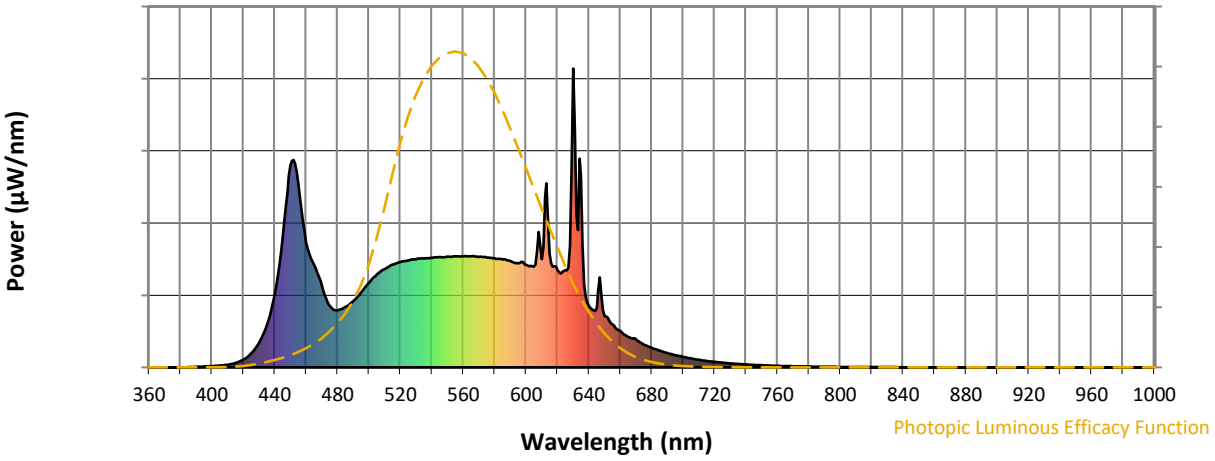


CCT = 4901K
CIE x = 0.3477
CIE y = 0.3520
Duv = -0.0008

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-8

Photopic Flux vs. Wavelength

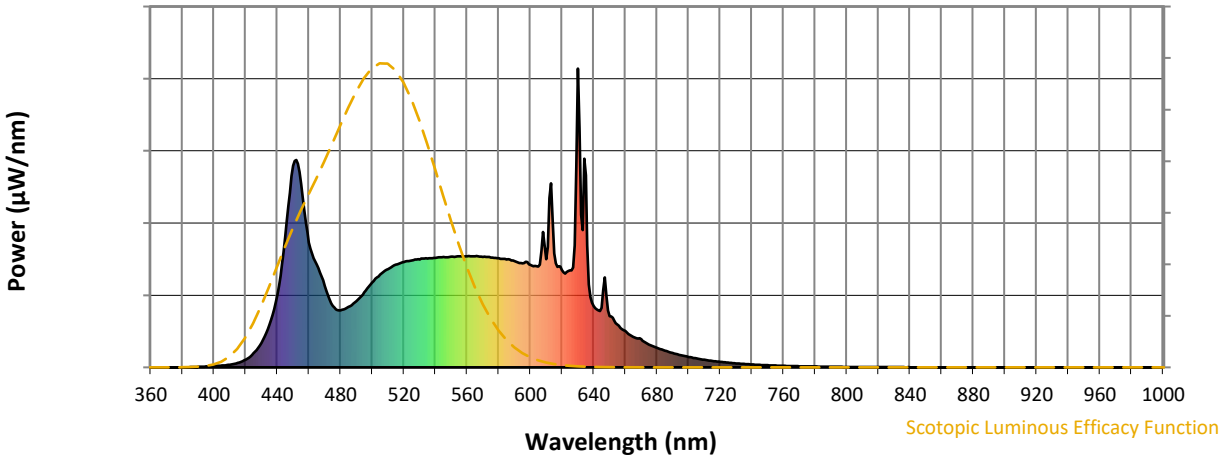


Photopic Lumens: NR

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	221	NR	620	326	NR	750	7	NR	880	0	NR
365	0	NR	495	250	NR	625	325	NR	755	6	NR	885	0	NR
370	0	NR	500	284	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	311	NR	635	643	NR	765	4	NR	895	0	NR
380	0	NR	510	329	NR	640	206	NR	770	4	NR	900	0	NR
385	1	NR	515	344	NR	645	199	NR	775	3	NR	905	0	NR
390	2	NR	520	353	NR	650	172	NR	780	3	NR	910	0	NR
395	3	NR	525	357	NR	655	143	NR	785	2	NR	915	0	NR
400	5	NR	530	362	NR	660	122	NR	790	2	NR	920	0	NR
405	6	NR	535	365	NR	665	102	NR	795	2	NR	925	0	NR
410	9	NR	540	367	NR	670	94	NR	800	2	NR	930	0	NR
415	15	NR	545	369	NR	675	76	NR	805	1	NR	935	0	NR
420	26	NR	550	370	NR	680	65	NR	810	1	NR	940	0	NR
425	47	NR	555	372	NR	685	56	NR	815	1	NR	945	0	NR
430	81	NR	560	372	NR	690	48	NR	820	1	NR	950	0	NR
435	143	NR	565	371	NR	695	41	NR	825	1	NR	955	0	NR
440	243	NR	570	370	NR	700	35	NR	830	1	NR	960	0	NR
445	434	NR	575	367	NR	705	30	NR	835	1	NR	965	0	NR
450	675	NR	580	365	NR	710	25	NR	840	1	NR	970	0	NR
455	615	NR	585	361	NR	715	22	NR	845	0	NR	975	0	NR
460	418	NR	590	356	NR	720	19	NR	850	0	NR	980	0	NR
465	344	NR	595	348	NR	725	16	NR	855	0	NR	985	0	NR
470	272	NR	600	343	NR	730	13	NR	860	0	NR	990	0	NR
475	206	NR	605	337	NR	735	11	NR	865	0	NR	995	0	NR
480	190	NR	610	362	NR	740	10	NR	870	0	NR	1000	0	NR
485	202	NR	615	381	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-8

Scotopic Flux vs. Wavelength

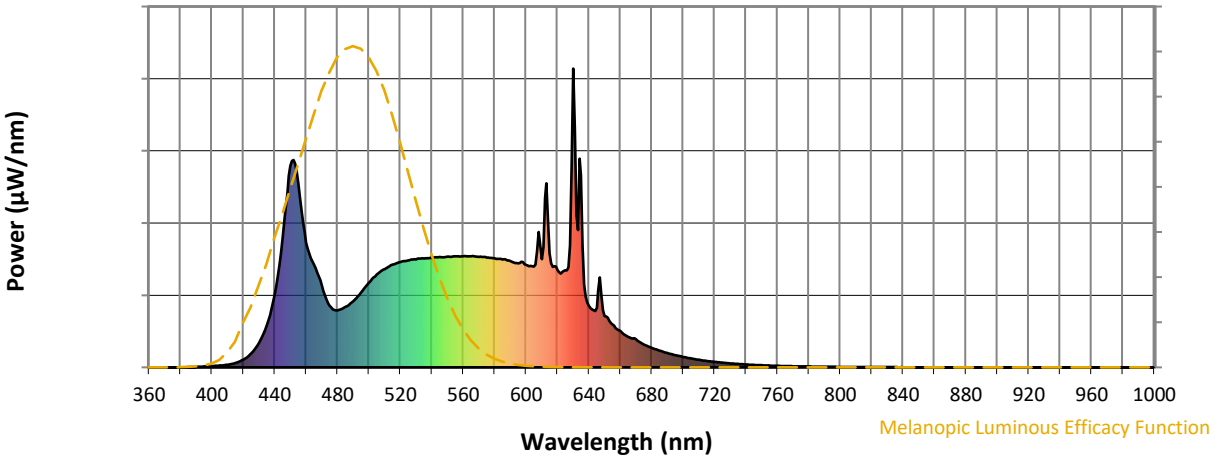


Scotopic Lumens: NR **S/P: 2.04**

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	221	NR	620	326	NR	750	7	NR	880	0	NR
365	0	NR	495	250	NR	625	325	NR	755	6	NR	885	0	NR
370	0	NR	500	284	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	311	NR	635	643	NR	765	4	NR	895	0	NR
380	0	NR	510	329	NR	640	206	NR	770	4	NR	900	0	NR
385	1	NR	515	344	NR	645	199	NR	775	3	NR	905	0	NR
390	2	NR	520	353	NR	650	172	NR	780	3	NR	910	0	NR
395	3	NR	525	357	NR	655	143	NR	785	2	NR	915	0	NR
400	5	NR	530	362	NR	660	122	NR	790	2	NR	920	0	NR
405	6	NR	535	365	NR	665	102	NR	795	2	NR	925	0	NR
410	9	NR	540	367	NR	670	94	NR	800	2	NR	930	0	NR
415	15	NR	545	369	NR	675	76	NR	805	1	NR	935	0	NR
420	26	NR	550	370	NR	680	65	NR	810	1	NR	940	0	NR
425	47	NR	555	372	NR	685	56	NR	815	1	NR	945	0	NR
430	81	NR	560	372	NR	690	48	NR	820	1	NR	950	0	NR
435	143	NR	565	371	NR	695	41	NR	825	1	NR	955	0	NR
440	243	NR	570	370	NR	700	35	NR	830	1	NR	960	0	NR
445	434	NR	575	367	NR	705	30	NR	835	1	NR	965	0	NR
450	675	NR	580	365	NR	710	25	NR	840	1	NR	970	0	NR
455	615	NR	585	361	NR	715	22	NR	845	0	NR	975	0	NR
460	418	NR	590	356	NR	720	19	NR	850	0	NR	980	0	NR
465	344	NR	595	348	NR	725	16	NR	855	0	NR	985	0	NR
470	272	NR	600	343	NR	730	13	NR	860	0	NR	990	0	NR
475	206	NR	605	337	NR	735	11	NR	865	0	NR	995	0	NR
480	190	NR	610	362	NR	740	10	NR	870	0	NR	1000	0	NR
485	202	NR	615	381	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.41**

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	221	NR	620	326	NR	750	7	NR	880	0	NR
365	0	NR	495	250	NR	625	325	NR	755	6	NR	885	0	NR
370	0	NR	500	284	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	311	NR	635	643	NR	765	4	NR	895	0	NR
380	0	NR	510	329	NR	640	206	NR	770	4	NR	900	0	NR
385	1	NR	515	344	NR	645	199	NR	775	3	NR	905	0	NR
390	2	NR	520	353	NR	650	172	NR	780	3	NR	910	0	NR
395	3	NR	525	357	NR	655	143	NR	785	2	NR	915	0	NR
400	5	NR	530	362	NR	660	122	NR	790	2	NR	920	0	NR
405	6	NR	535	365	NR	665	102	NR	795	2	NR	925	0	NR
410	9	NR	540	367	NR	670	94	NR	800	2	NR	930	0	NR
415	15	NR	545	369	NR	675	76	NR	805	1	NR	935	0	NR
420	26	NR	550	370	NR	680	65	NR	810	1	NR	940	0	NR
425	47	NR	555	372	NR	685	56	NR	815	1	NR	945	0	NR
430	81	NR	560	372	NR	690	48	NR	820	1	NR	950	0	NR
435	143	NR	565	371	NR	695	41	NR	825	1	NR	955	0	NR
440	243	NR	570	370	NR	700	35	NR	830	1	NR	960	0	NR
445	434	NR	575	367	NR	705	30	NR	835	1	NR	965	0	NR
450	675	NR	580	365	NR	710	25	NR	840	1	NR	970	0	NR
455	615	NR	585	361	NR	715	22	NR	845	0	NR	975	0	NR
460	418	NR	590	356	NR	720	19	NR	850	0	NR	980	0	NR
465	344	NR	595	348	NR	725	16	NR	855	0	NR	985	0	NR
470	272	NR	600	343	NR	730	13	NR	860	0	NR	990	0	NR
475	206	NR	605	337	NR	735	11	NR	865	0	NR	995	0	NR
480	190	NR	610	362	NR	740	10	NR	870	0	NR	1000	0	NR
485	202	NR	615	381	NR	745	8	NR	875	0	NR			

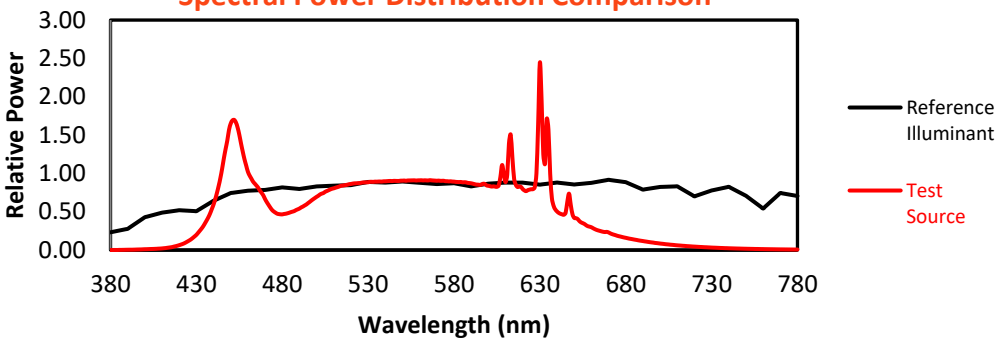
REPORT NUMBER: SP1-2506-472-8

TM-30-18

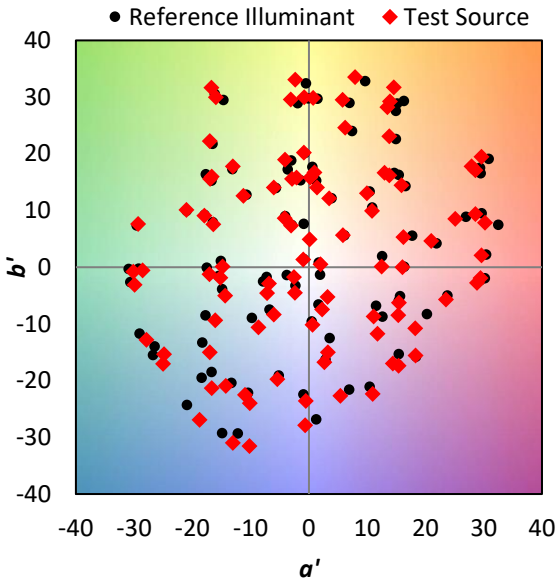
Summary

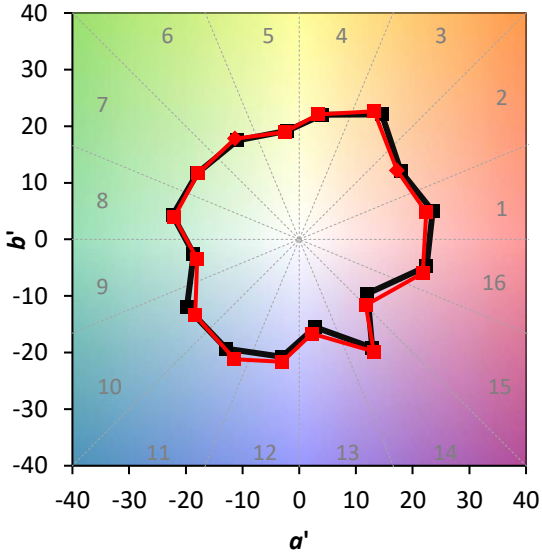
R_f = 90.7
R_g = 100.5
CIE R_a = 94.3
R_9 = 72.3

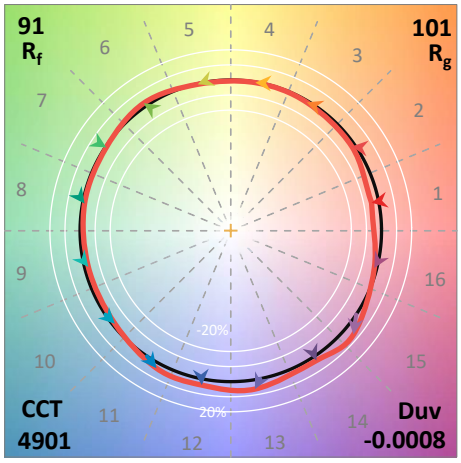
Spectral Power Distribution Comparison

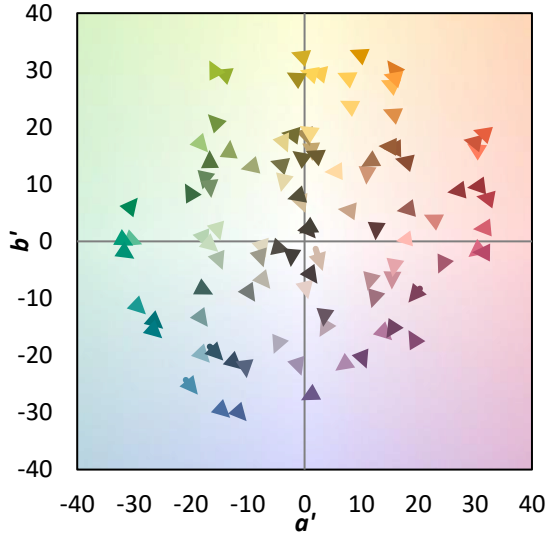


Color Vector Graphics







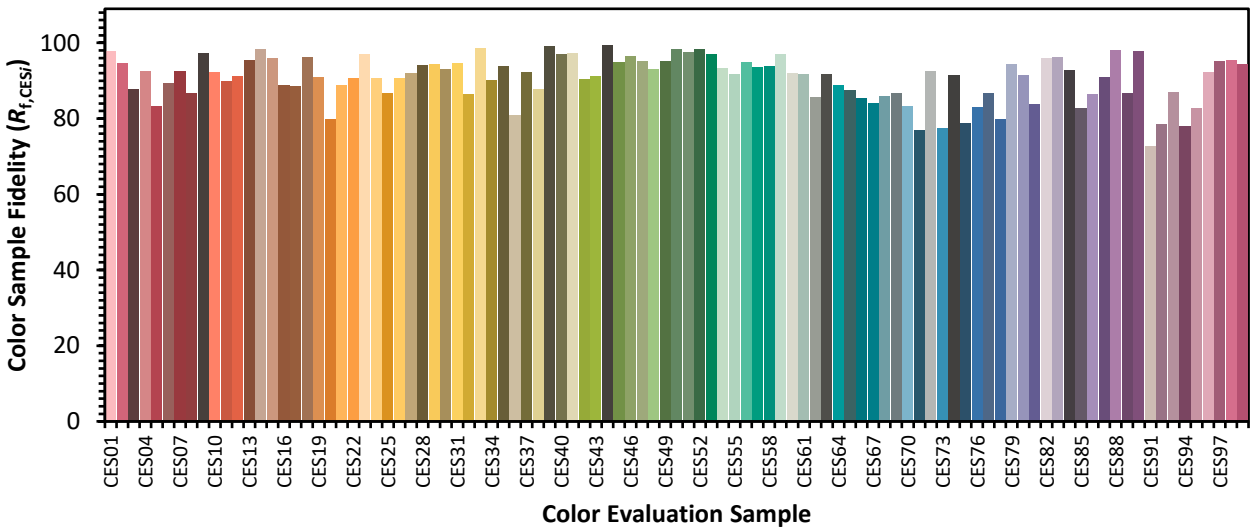


REPORT NUMBER: SP1-2506-472-8

TM-30-18

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

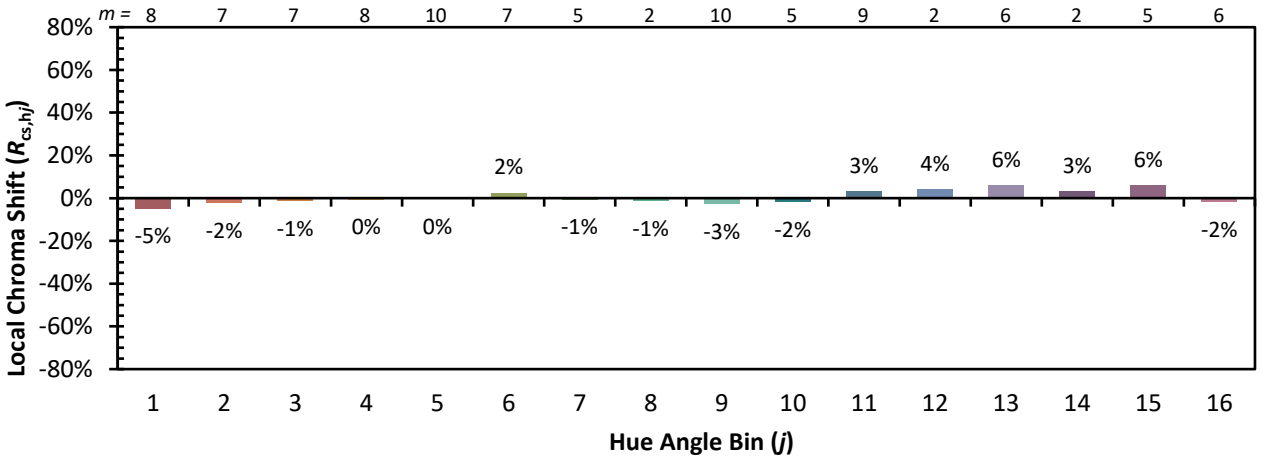
CES01 = 85	CES26 = 91	CES51 = 98	CES76 = 83
CES02 = 61	CES27 = 92	CES52 = 98	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 97	CES78 = 80
CES04 = 69	CES29 = 94	CES54 = 93	CES79 = 94
CES05 = 48	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 50	CES31 = 95	CES56 = 95	CES81 = 84
CES07 = 41	CES32 = 86	CES57 = 94	CES82 = 96
CES08 = 40	CES33 = 99	CES58 = 94	CES83 = 96
CES09 = 29	CES34 = 90	CES59 = 97	CES84 = 93
CES10 = 73	CES35 = 94	CES60 = 92	CES85 = 83
CES11 = 56	CES36 = 81	CES61 = 92	CES86 = 86
CES12 = 62	CES37 = 92	CES62 = 86	CES87 = 91
CES13 = 43	CES38 = 88	CES63 = 92	CES88 = 98
CES14 = 74	CES39 = 99	CES64 = 89	CES89 = 87
CES15 = 71	CES40 = 97	CES65 = 88	CES90 = 98
CES16 = 47	CES41 = 97	CES66 = 85	CES91 = 73
CES17 = 48	CES42 = 90	CES67 = 84	CES92 = 79
CES18 = 56	CES43 = 91	CES68 = 86	CES93 = 87
CES19 = 70	CES44 = 99	CES69 = 87	CES94 = 78
CES20 = 65	CES45 = 95	CES70 = 83	CES95 = 83
CES21 = 85	CES46 = 97	CES71 = 77	CES96 = 92
CES22 = 77	CES47 = 95	CES72 = 92	CES97 = 95
CES23 = 91	CES48 = 93	CES73 = 77	CES98 = 95
CES24 = 90	CES49 = 95	CES74 = 92	CES99 = 94
CES25 = 70	CES50 = 98	CES75 = 79	

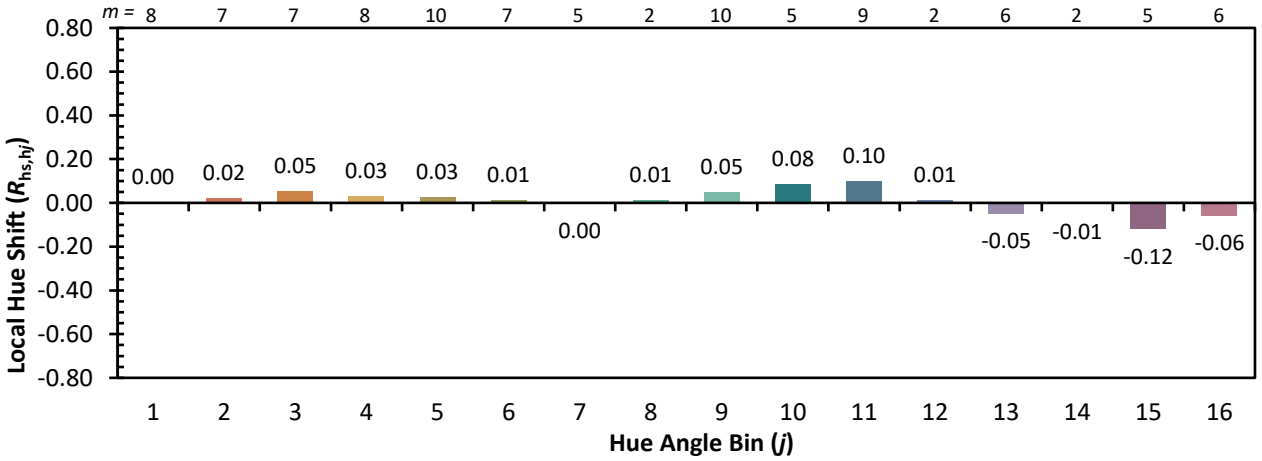


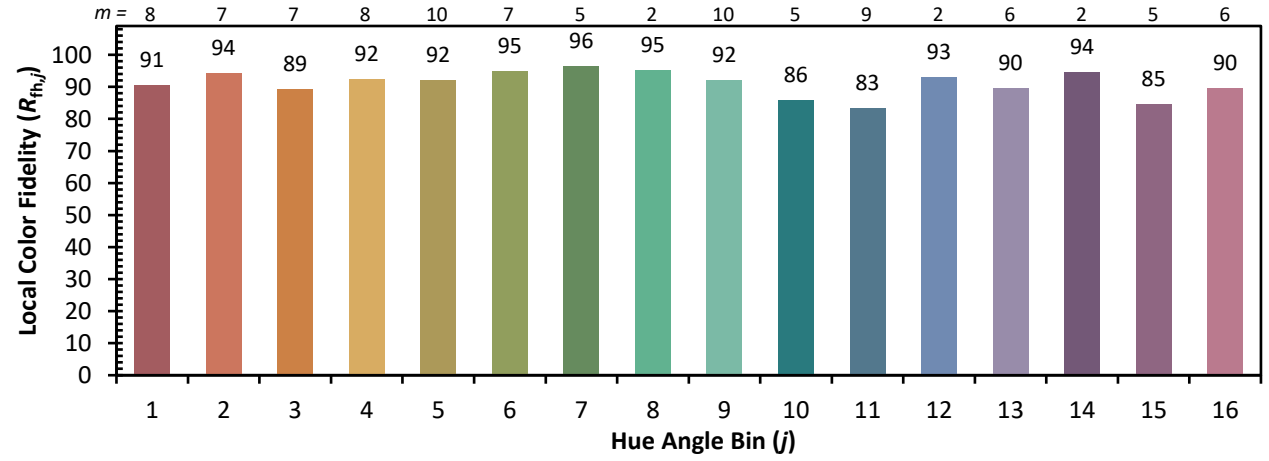
REPORT NUMBER: SP1-2506-472-8

TM-30-18

Color Rendition by Hue-Angle Bin



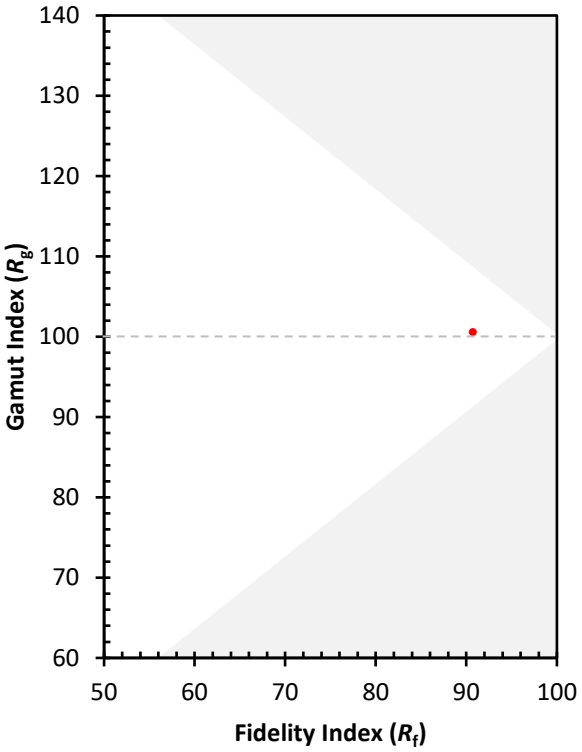


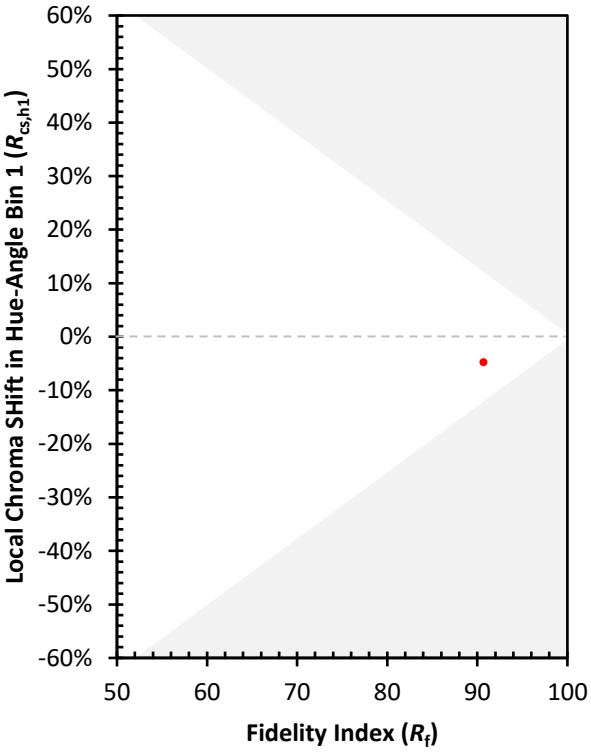


REPORT NUMBER: SP1-2506-472-8

TM-30-18

Measure Comparisons





(END OF REPORT)