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:

Luminaire Tested: EHBR1-48-UNV-N-L950-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:	
	REPORT IS A COMBINATION OF REPORTS P1431849 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-48-UNV-N-L950-UPL36
Description:	Elevate Round Highbay at, 49000 lumens, 5000K 90CRI LEDs with N lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	48029.4 lumens
Efficiency:	N/A
Efficacy:	167.3 lumens/watt
Spacing Criteria (0/90/45):	0.82 / 0.82 / 0.8
Luminous Opening:	Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type:	Direct

Input Watts (W):	287
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

TEST NUMBER:
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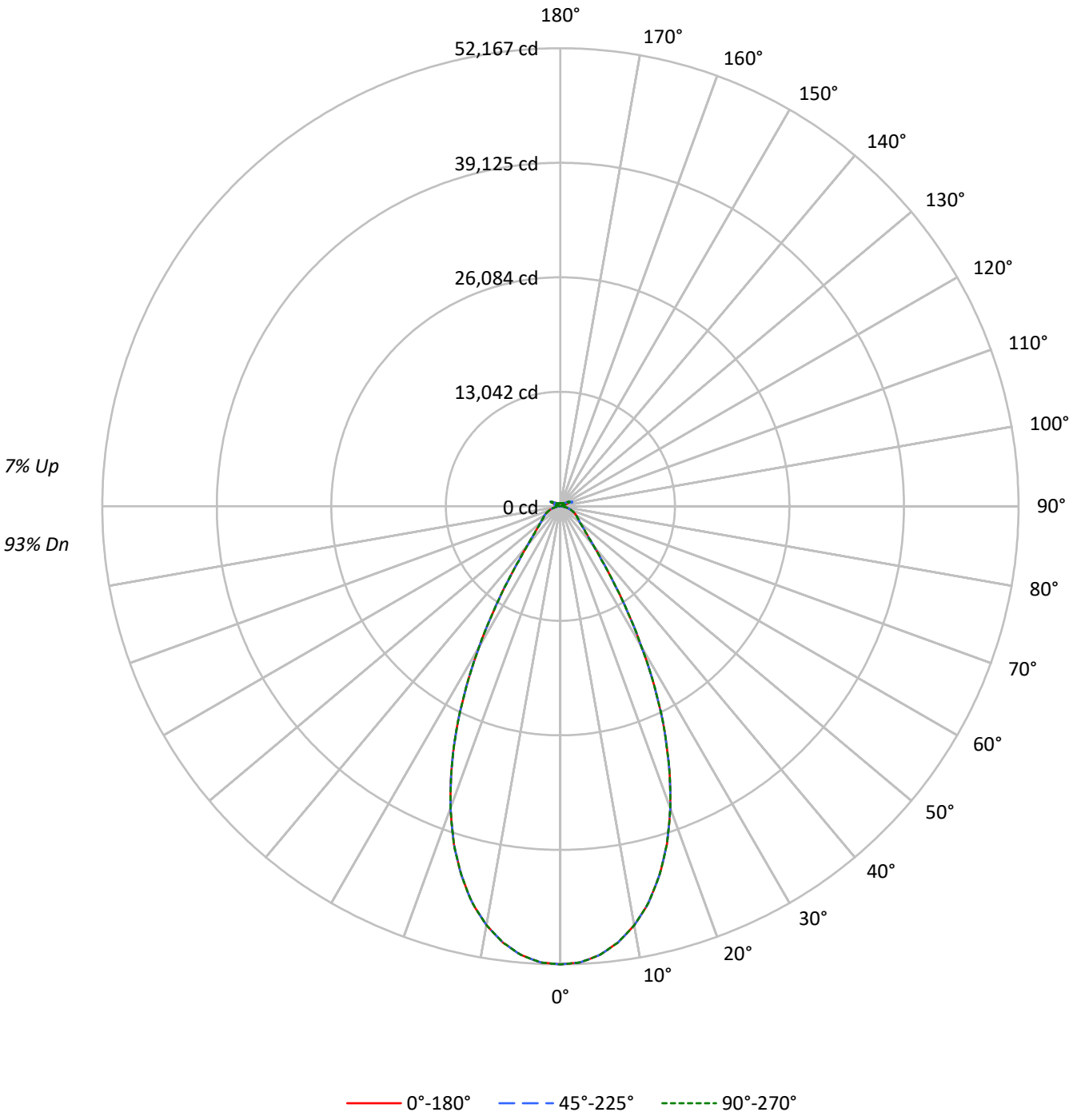
Luminous Intensity Polar Plot



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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	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	111	107	104	102	107	104	102	99	99	97	95	94	92	91	90	88	87	85
2	104	98	93	90	101	96	92	88	91	88	85	87	85	82	84	81	79	77
3	98	90	85	80	95	88	83	79	85	80	77	81	78	75	78	75	73	71
4	92	84	77	73	90	82	76	72	79	74	70	76	72	69	73	70	67	65
5	87	78	71	67	85	76	70	66	74	69	65	71	67	63	69	65	62	61
6	82	73	66	61	80	71	65	61	69	64	60	67	63	59	65	61	58	56
7	78	68	62	57	76	67	61	57	65	60	56	63	59	55	62	57	54	53
8	74	64	58	53	73	63	57	53	61	56	52	60	55	52	58	54	51	49
9	71	60	54	50	69	60	54	50	58	53	49	57	52	48	55	51	48	46
10	67	57	51	47	66	56	51	47	55	50	46	54	49	46	53	48	45	44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	244982	244982	244982
5°	240226	240226	240226
10°	228003	228003	228003
15°	207453	207453	207453
20°	177949	177949	177949
25°	139985	139985	139985
30°	96065	96065	96065
35°	57066	57066	57066
40°	33765	33765	33765
45°	24238	24238	24238
50°	19924	19924	19924
55°	18107	18107	18107
60°	17333	17333	17333
65°	16532	16532	16532
70°	15375	15375	15375
75°	13899	13899	13899
80°	11537	11537	11537
85°	7303	7303	7303

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 24238 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4805.4	10.0
10°-20°	12062.4	25.1
20°-30°	12612.5	26.3
30°-40°	6833.8	14.2
40°-50°	3143.9	6.5
50°-60°	2215.6	4.6
60°-70°	1705.0	3.5
70°-80°	1033.6	2.2
80°-90°	297.0	0.6
90°-100°	94.9	0.2
100°-110°	593.1	1.2
110°-120°	1060.7	2.2
120°-130°	622.4	1.3
130°-140°	381.8	0.8
140°-150°	264.8	0.6
150°-160°	172.0	0.4
160°-170°	98.0	0.2
170°-180°	32.4	0.1
0°-30°	29480.4	61.4
0°-40°	36314.2	75.6
0°-60°	41673.6	86.8
0°-90°	44709.3	93.1
90°-120°	1748.7	3.6
90°-150°	3017.6	6.3
90°-180°	3320.0	6.9
0°-180°	48029.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	52167	52167	52167	52167	52167	
5°	51292	51292	51292	51292	51292	4805
15°	43522	43522	43522	43522	43522	12062
25°	27955	27955	27955	27955	27955	12613
35°	10474	10474	10474	10474	10474	6834
45°	3922	3922	3922	3922	3922	3144
55°	2447	2447	2447	2447	2447	2216
65°	1726	1726	1726	1726	1726	1705
75°	979	979	979	979	979	1034
85°	251	251	251	251	251	278
90°	26	41	70	45	26	24
95°	42	70	154	76	48	40
105°	207	409	1043	450	274	277
115°	954	1003	1233	1182	1174	879
125°	688	642	660	669	751	627
135°	502	486	504	473	471	392
145°	412	407	431	426	424	261
155°	361	357	374	374	374	168
165°	338	338	348	348	346	97
175°	334	334	340	340	340	32
180°	338	338	338	338	338	

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TEST NUMBER:
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	52167.2	52167.2	52167.2	52167.2	52167.2
2.5°	51982.3	51982.3	51982.3	51982.3	51982.3
5°	51292.1	51292.1	51292.1	51292.1	51292.1
7.5°	50113.9	50113.9	50113.9	50113.9	50113.9
10°	48442.4	48442.4	48442.4	48442.4	48442.4
12.5°	46282.2	46282.2	46282.2	46282.2	46282.2
15°	43522.5	43522.5	43522.5	43522.5	43522.5
17.5°	40320.7	40320.7	40320.7	40320.7	40320.7
20°	36573.6	36573.6	36573.6	36573.6	36573.6
22.5°	32401.7	32401.7	32401.7	32401.7	32401.7
25°	27954.9	27954.9	27954.9	27954.9	27954.9
27.5°	23240.7	23240.7	23240.7	23240.7	23240.7
30°	18478.1	18478.1	18478.1	18478.1	18478.1
32.5°	14181.3	14181.3	14181.3	14181.3	14181.3
35°	10473.7	10473.7	10473.7	10473.7	10473.7
37.5°	7690.2	7690.2	7690.2	7690.2	7690.2
40°	5852.3	5852.3	5852.3	5852.3	5852.3
42.5°	4692.7	4692.7	4692.7	4692.7	4692.7
45°	3921.6	3921.6	3921.6	3921.6	3921.6
47.5°	3365.9	3365.9	3365.9	3365.9	3365.9
50°	2969.3	2969.3	2969.3	2969.3	2969.3
52.5°	2679.6	2679.6	2679.6	2679.6	2679.6
55°	2447.0	2447.0	2447.0	2447.0	2447.0
57.5°	2258.3	2258.3	2258.3	2258.3	2258.3
60°	2083.7	2083.7	2083.7	2083.7	2083.7
62.5°	1909.1	1909.1	1909.1	1909.1	1909.1
65°	1725.6	1725.6	1725.6	1725.6	1725.6
67.5°	1538.5	1538.5	1538.5	1538.5	1538.5
70°	1349.1	1349.1	1349.1	1349.1	1349.1
72.5°	1164.8	1164.8	1164.8	1164.8	1164.8
75°	979.1	979.1	979.1	979.1	979.1
77.5°	797.1	797.1	797.1	797.1	797.1
80°	606.9	606.9	606.9	606.9	606.9
82.5°	424.9	424.9	424.9	424.9	424.9
85°	251.0	251.0	251.0	251.0	251.0
87.5°	89.8	89.8	89.8	89.8	89.8
90°	26.2	41.4	69.9	45.2	26.2
92.5°	36.1	60.9	110.2	57.0	32.3
95°	41.8	70.3	154.0	76.0	47.5
97.5°	53.2	78.0	176.7	93.1	74.1
100°	70.3	91.2	275.6	114.0	98.9
102.5°	119.8	193.8	585.3	214.7	150.1
105°	207.1	408.6	1043.3	450.4	273.6
107.5°	359.2	731.7	1375.9	798.2	518.8
110°	670.8	971.1	1442.4	1096.5	830.4

TEST NUMBER:
CATALOG NUMBER: EHBR1-48-UNV-N-L950-UPL36

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*906.5*	1043.3	1381.6	1210.5	1081.3
115°	*954.0*	1003.4	1233.4	1182.0	1174.5
117.5°	*921.7*	916.0	1047.1	1062.3	1134.5
120°	*853.3*	815.3	874.2	927.4	1024.3
122.5°	*767.7*	722.2	748.8	788.6	885.6
125°	*687.9*	642.3	659.5	669.0	750.6
127.5°	*617.7*	587.2	596.8	585.3	636.6
130°	*570.1*	543.5	556.8	530.2	555.0
132.5°	*530.2*	513.1	528.3	496.0	503.6
135°	*501.7*	486.5	503.6	473.2	471.3
137.5°	*477.0*	463.7	480.8	458.0	452.3
140°	*454.2*	442.8	461.8	444.7	440.9
142.5°	*429.5*	421.9	444.7	433.3	429.5
145°	*412.4*	406.7	431.4	425.7	423.8
147.5°	*397.2*	393.4	416.2	414.3	414.3
150°	*383.9*	380.1	402.9	401.0	402.9
152.5°	*370.6*	366.8	387.7	385.8	387.7
155°	*361.1*	357.2	374.3	374.3	374.3
157.5°	*353.4*	351.6	364.9	364.9	364.9
160°	*347.8*	345.9	357.2	357.2	355.4
162.5°	*342.1*	340.1	353.4	351.6	351.6
165°	*338.3*	338.3	347.8	347.8	345.9
167.5°	*338.3*	336.3	345.9	345.9	344.0
170°	*336.3*	336.3	344.0	342.1	340.1
172.5°	*336.3*	336.3	344.0	342.1	340.1
175°	*334.5*	334.5	340.1	340.1	340.1
177.5°	*336.3*	336.3	340.1	340.1	338.3
180°	*338.3*	338.3	338.3	338.3	338.3

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Scaled Data Report

TEST NUMBER: CATALOG
CATALOG NUMBER: EHBR1-48-UNV-N-L950-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	17.98	19.04	18.47	19.50	19.99	17.98	19.04	18.47	19.50	19.99
	3H	19.76	20.70	20.26	21.18	21.71	19.76	20.70	20.26	21.18	21.71
	4H	20.42	21.30	20.94	21.79	22.34	20.42	21.30	20.94	21.79	22.34
	6H	20.88	21.68	21.41	22.19	22.75	20.88	21.68	21.41	22.19	22.75
	8H	21.00	21.76	21.55	22.29	22.86	21.00	21.76	21.55	22.29	22.86
	12H	21.05	21.78	21.61	22.30	22.89	21.05	21.78	21.61	22.30	22.89
4H	2H	18.52	19.40	19.05	19.89	20.45	18.52	19.40	19.05	19.89	20.45
	3H	20.49	21.22	21.03	21.76	22.33	20.49	21.22	21.03	21.76	22.33
	4H	21.26	21.92	21.82	22.47	23.07	21.26	21.92	21.82	22.47	23.07
	6H	21.83	22.40	22.42	22.97	23.60	21.83	22.40	22.42	22.97	23.60
	8H	21.99	22.52	22.58	23.09	23.72	21.99	22.52	22.58	23.09	23.72
	12H	22.07	22.53	22.68	23.14	23.77	22.07	22.53	22.68	23.14	23.77
8H	4H	21.49	22.02	22.08	22.59	23.22	21.49	22.02	22.08	22.59	23.22
	6H	22.17	22.60	22.79	23.22	23.86	22.17	22.60	22.79	23.22	23.86
	8H	22.40	22.77	23.03	23.41	24.06	22.40	22.77	23.03	23.41	24.06
	12H	22.54	22.86	23.17	23.48	24.20	22.54	22.86	23.17	23.48	24.20
12H	4H	21.49	21.95	22.09	22.55	23.19	21.49	21.95	22.09	22.55	23.19
	6H	22.20	22.58	22.84	23.21	23.86	22.20	22.58	22.84	23.21	23.86
	8H	22.46	22.79	23.09	23.40	24.13	22.46	22.79	23.09	23.40	24.13

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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

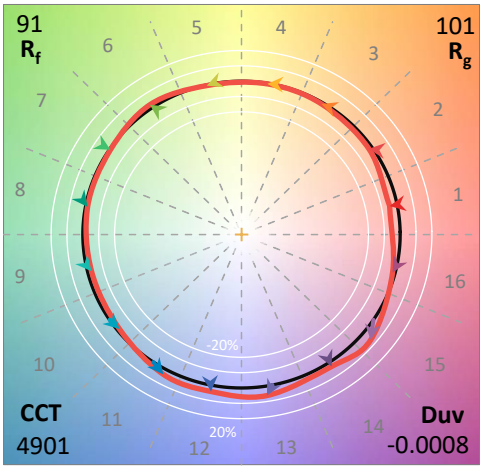
Test Information

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

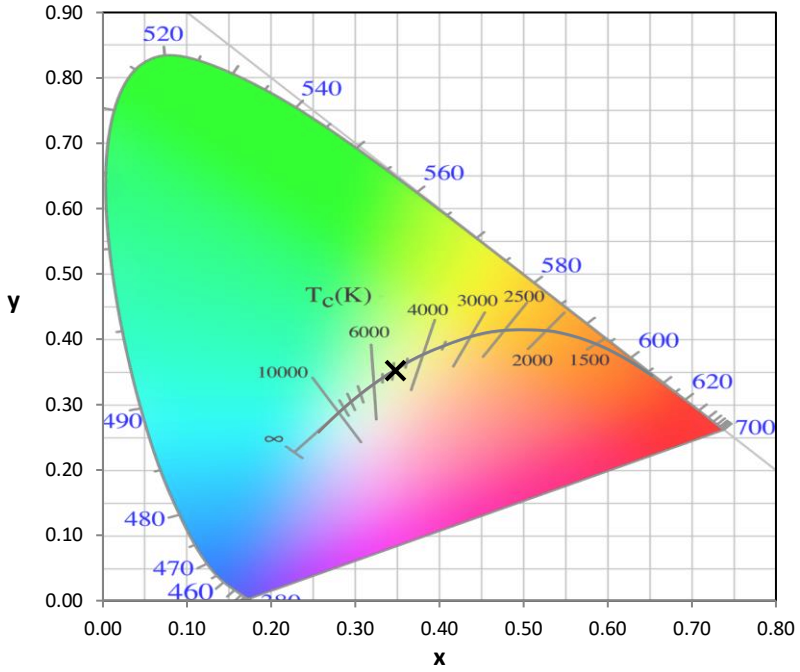
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-8

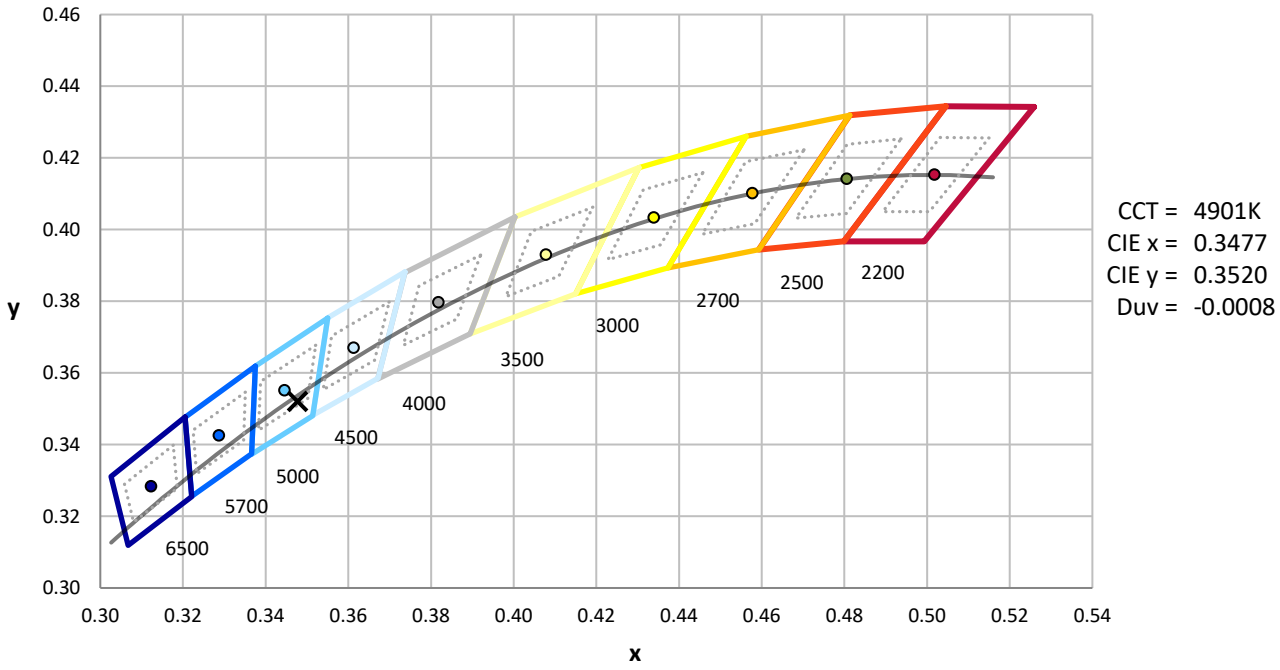
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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



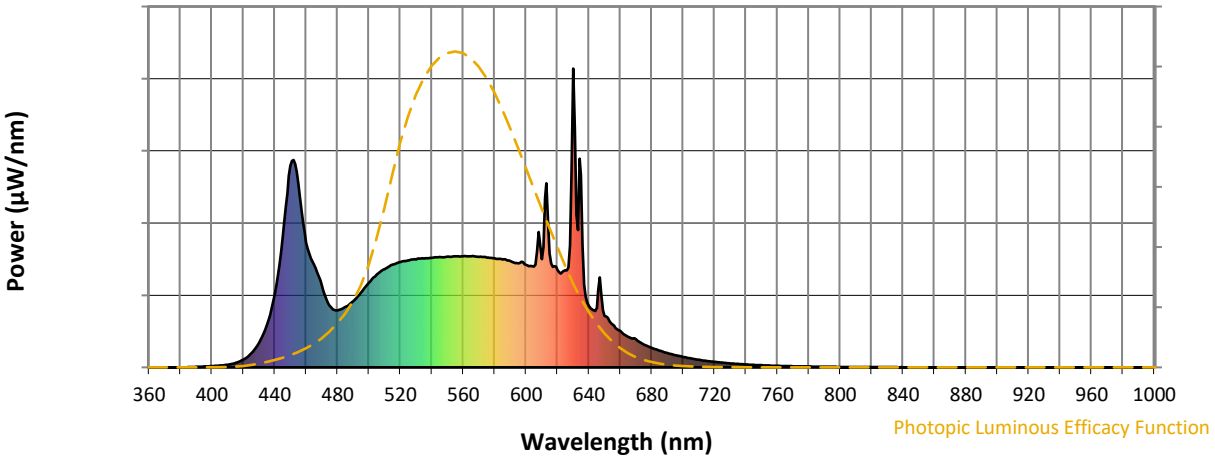
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-8

Photopic Flux vs. Wavelength

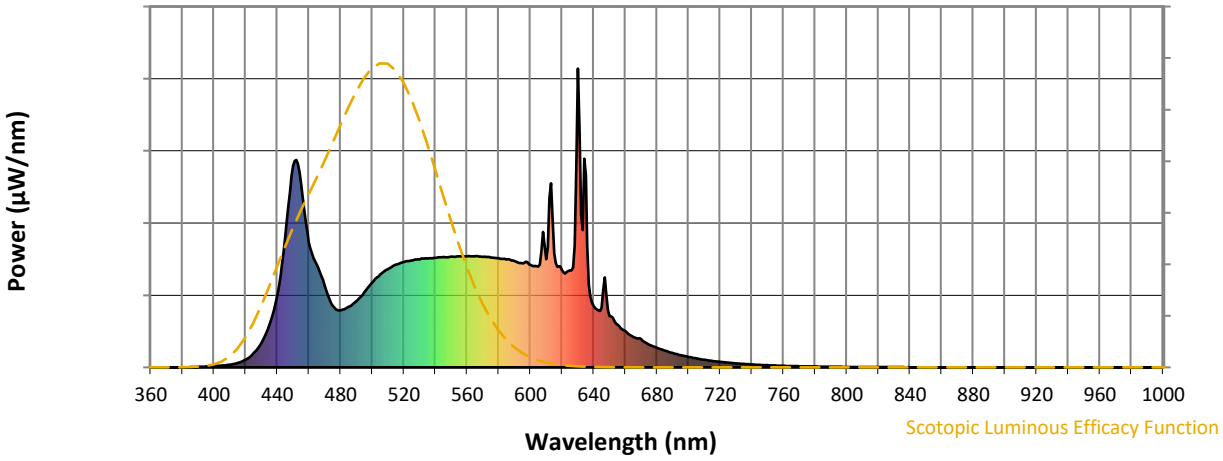


Photopic Lumens: NR

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

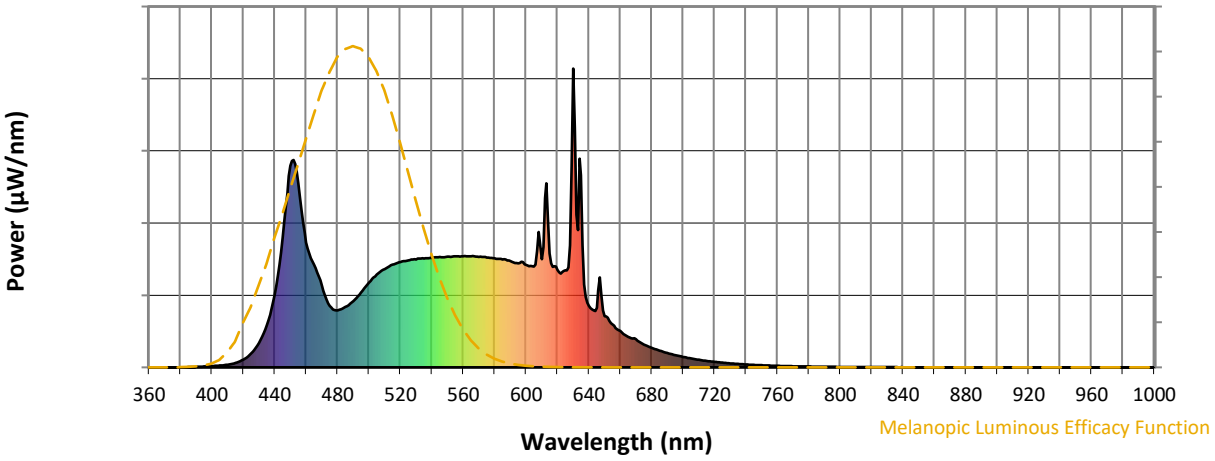


Scotopic Lumens: NR **S/P: 2.04**

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			

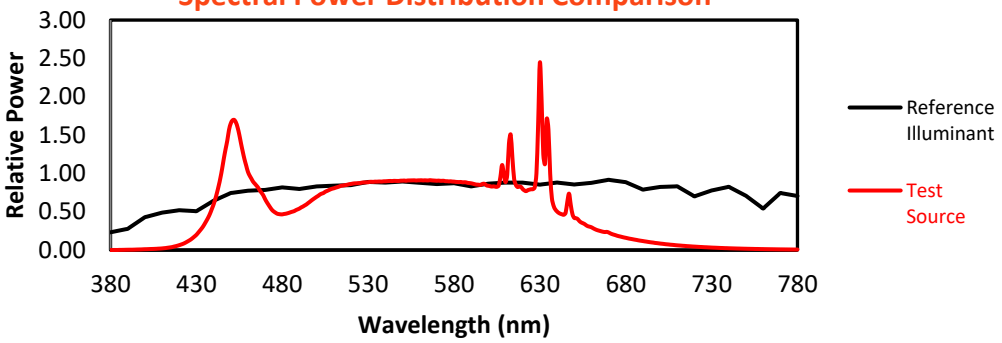
REPORT NUMBER: SP1-2506-472-8

TM-30-18

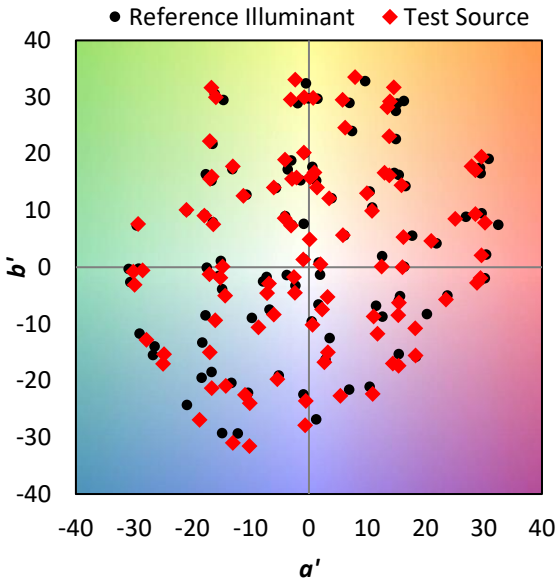
Summary

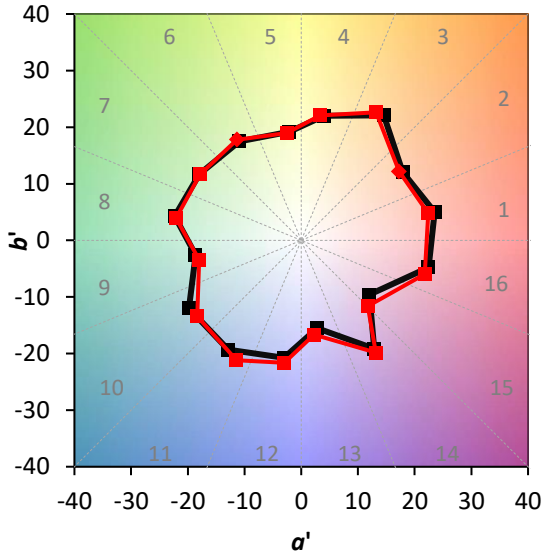
R_f = 90.7
R_g = 100.5
CIE R_a = 94.3
R_9 = 72.3

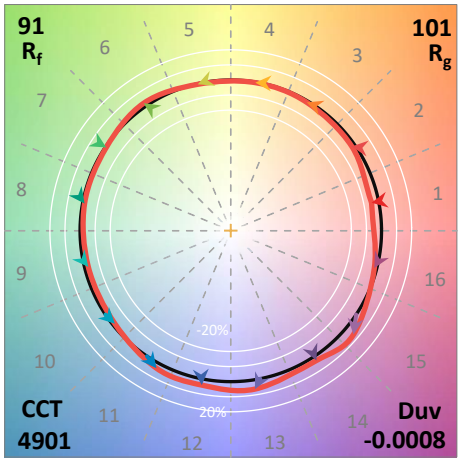
Spectral Power Distribution Comparison

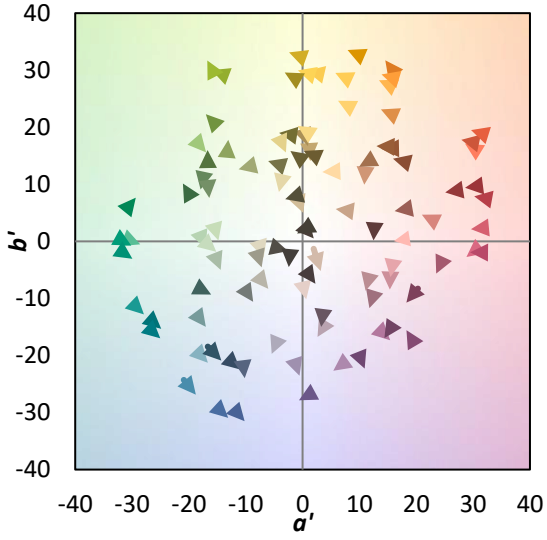


Color Vector Graphics







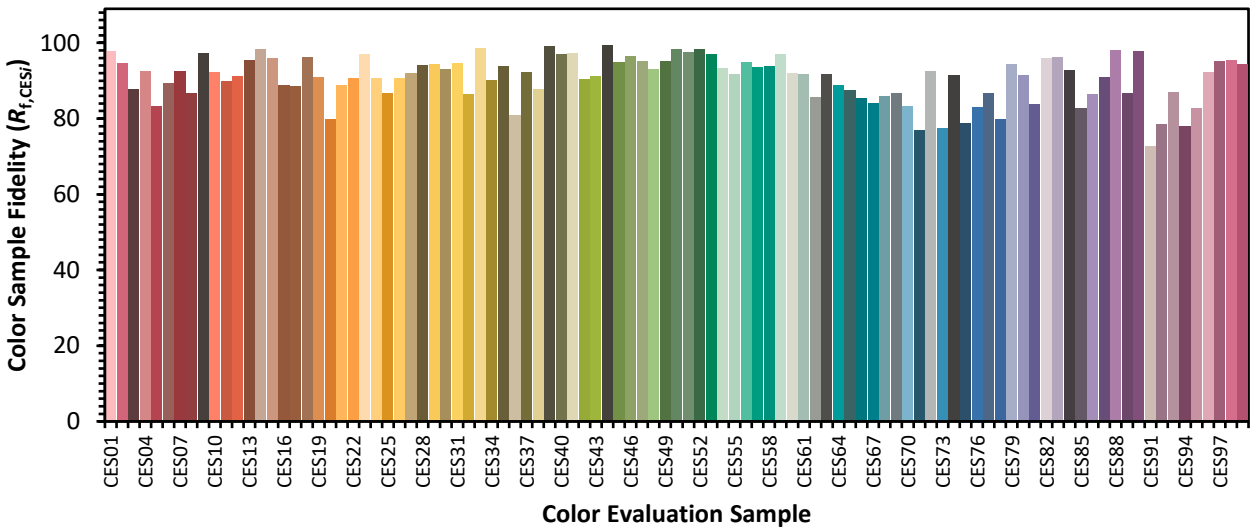


REPORT NUMBER: SP1-2506-472-8

TM-30-18

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

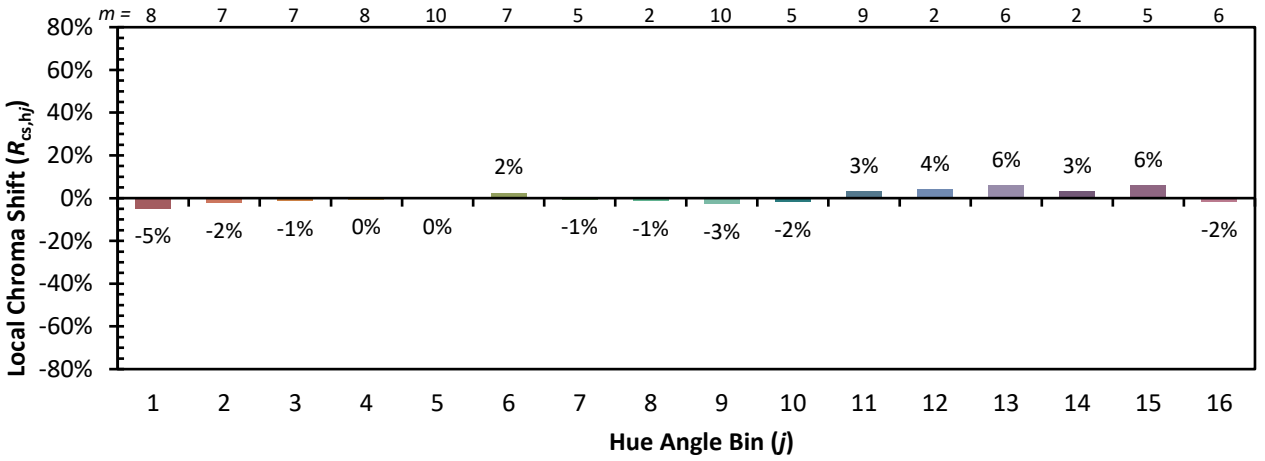
CES01 = 85	CES26 = 91	CES51 = 98	CES76 = 83
CES02 = 61	CES27 = 92	CES52 = 98	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 97	CES78 = 80
CES04 = 69	CES29 = 94	CES54 = 93	CES79 = 94
CES05 = 48	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 50	CES31 = 95	CES56 = 95	CES81 = 84
CES07 = 41	CES32 = 86	CES57 = 94	CES82 = 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	

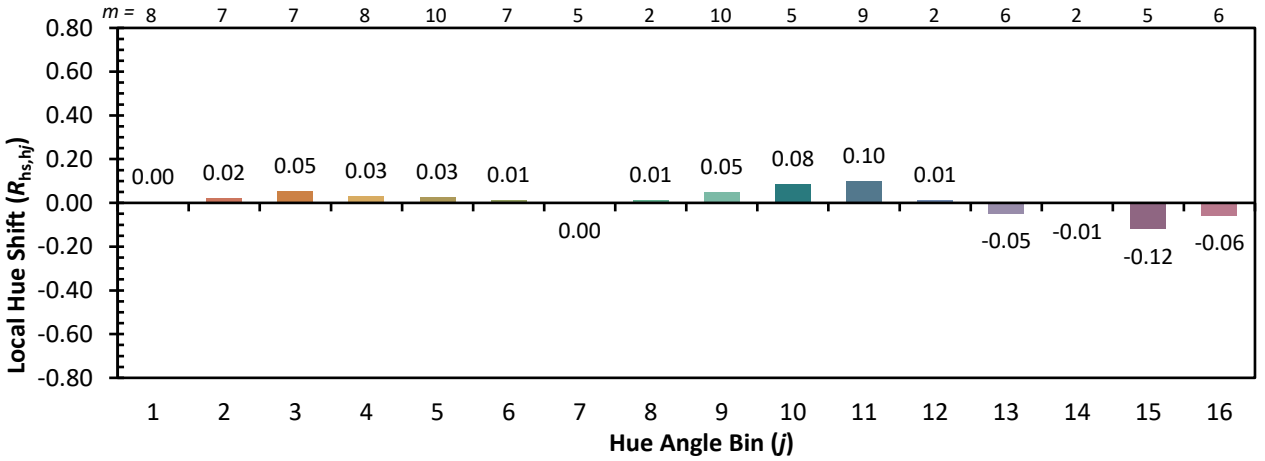


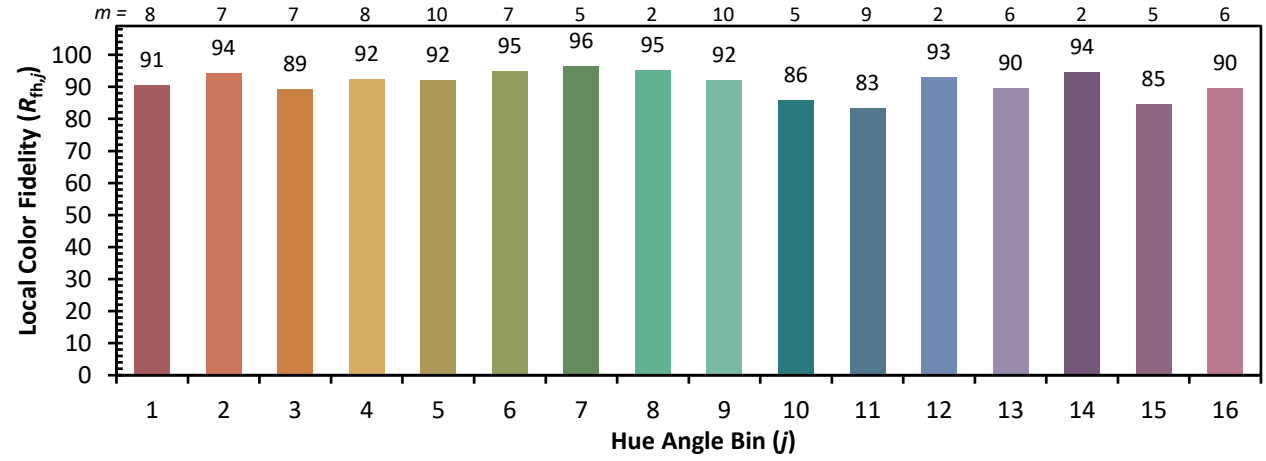
REPORT NUMBER: SP1-2506-472-8

TM-30-18

Color Rendition by Hue-Angle Bin



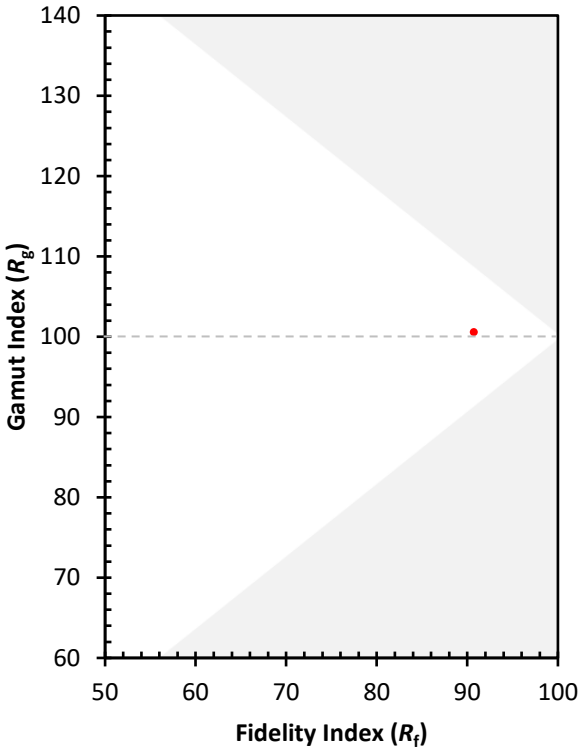


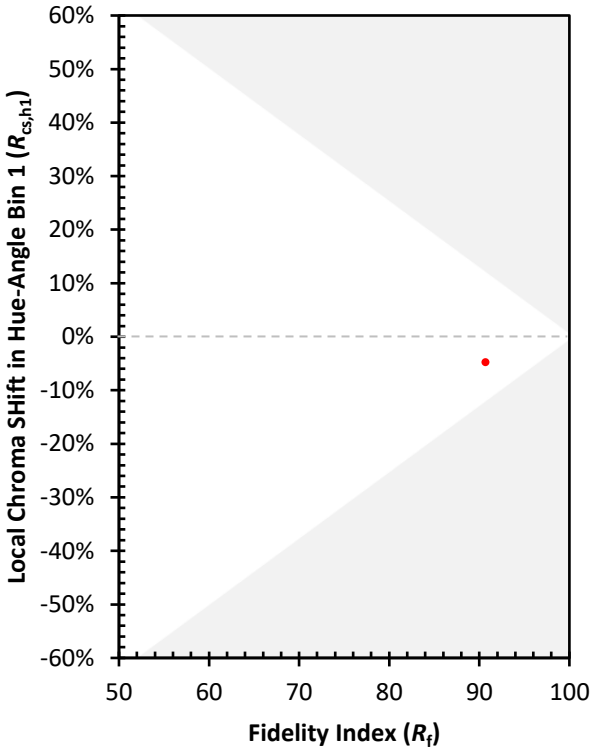


REPORT NUMBER: SP1-2506-472-8

TM-30-18

Measure Comparisons





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