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: P1433301

Luminaire Tested: EHBR1-48-UNV-W-L930-UPL24

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:	P1433301
	REPORT IS A COMBINATION OF REPORTS P1431855 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-48-UNV-W-L930-UPL24
Description:	Elevate Round Highbay at, 49000 lumens, 3000K 90CRI LEDs with W lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	44253.6 lumens
Efficiency:	N/A
Efficacy:	160.9 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:	Direct

Input Watts (W):	275.1
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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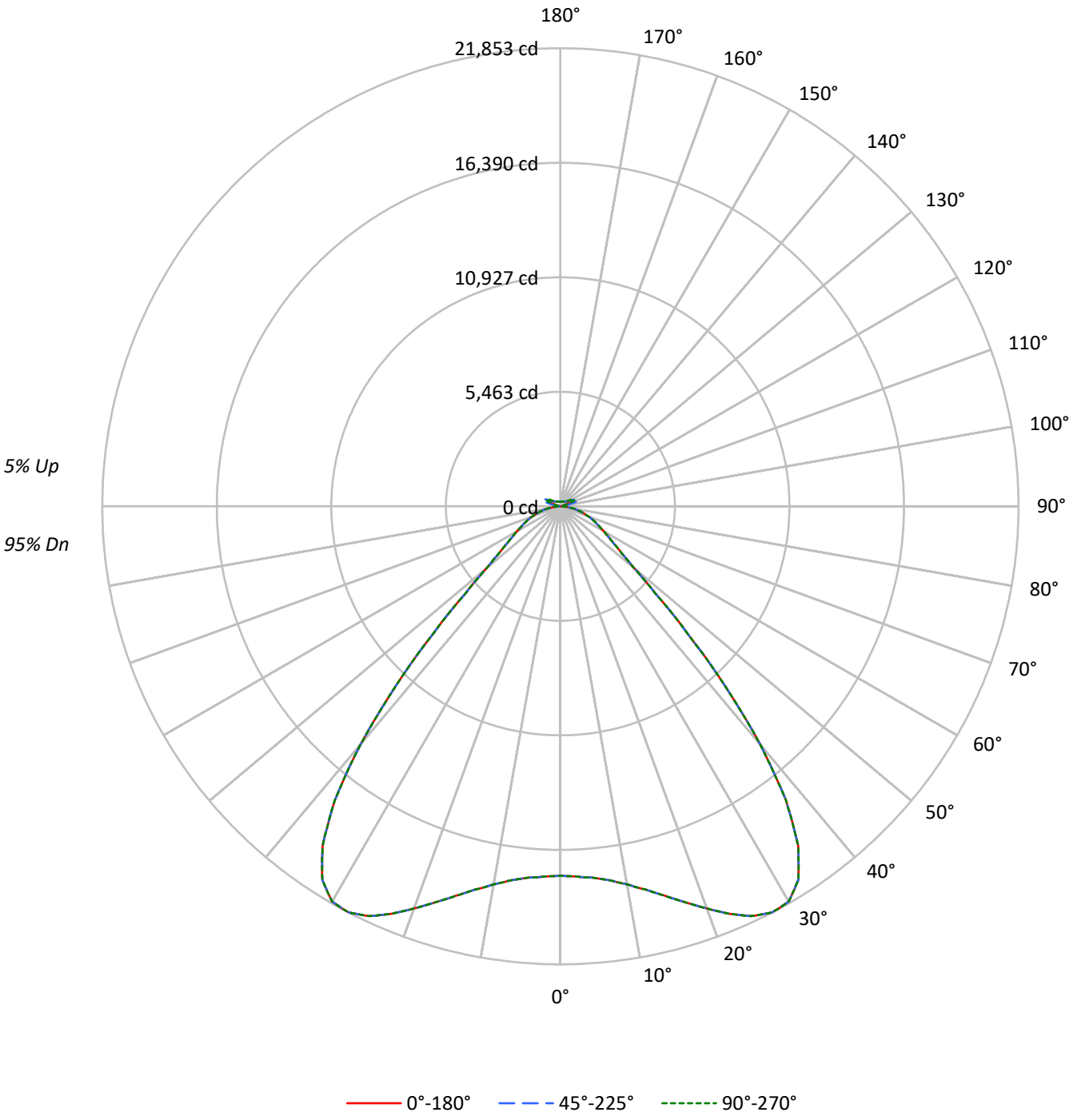
Luminous Intensity Polar Plot



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Scaled Data Report

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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	108	108	108	103	103	103	98	98	98	95
1	110	106	103	100	107	104	101	98	99	96	94	94	92	90	90	88	87	85
2	102	96	90	86	99	93	89	84	89	85	82	85	82	79	82	79	77	75
3	95	86	80	74	92	85	78	74	81	76	72	78	74	70	75	71	68	66
4	88	78	71	65	86	77	70	65	74	68	63	71	66	62	68	64	61	59
5	82	71	64	58	80	70	63	58	67	61	57	65	60	56	63	58	55	53
6	76	65	57	52	74	64	57	51	62	55	51	60	54	50	58	53	49	47
7	71	60	52	47	70	59	51	46	57	50	46	55	49	45	53	48	44	43
8	67	55	47	42	65	54	47	42	52	46	41	51	45	41	49	44	40	39
9	63	51	43	38	61	50	43	38	48	42	38	47	41	37	46	41	37	35
10	59	47	40	35	57	46	39	35	45	39	34	44	38	34	43	37	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	82752	82752	82752
5°	83302	83302	83302
10°	86196	86196	86196
15°	91659	91659	91659
20°	99360	99360	99360
25°	108013	108013	108013
30°	113216	113216	113216
35°	107764	107764	107764
40°	85510	85510	85510
45°	52853	52853	52853
50°	30604	30604	30604
55°	23155	23155	23155
60°	19863	19863	19863
65°	17941	17941	17941
70°	16504	16504	16504
75°	14580	14580	14580
80°	11882	11882	11882
85°	7006	7006	7006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 52853 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1714.5	3.9
10°-20°	5496.5	12.4
20°-30°	9921.3	22.4
30°-40°	11988.9	27.1
40°-50°	6849.6	15.5
50°-60°	2901.0	6.6
60°-70°	1871.2	4.2
70°-80°	1088.0	2.5
80°-90°	291.8	0.7
90°-100°	61.3	0.1
100°-110°	377.5	0.9
110°-120°	674.4	1.5
120°-130°	396.8	0.9
130°-140°	246.3	0.6
140°-150°	173.5	0.4
150°-160°	113.8	0.3
160°-170°	65.5	0.1
170°-180°	21.8	0.0
0°-30°	17132.2	38.7
0°-40°	29121.1	65.8
0°-60°	38871.8	87.8
0°-90°	42122.7	95.2
90°-120°	1113.2	2.5
90°-150°	1929.8	4.4
90°-180°	2131.0	4.8
0°-180°	44253.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17622	17622	17622	17622	17622	
5°	17786	17786	17786	17786	17786	1714
15°	19230	19230	19230	19230	19230	5496
25°	21570	21570	21570	21570	21570	9921
35°	19778	19778	19778	19778	19778	11989
45°	8551	8551	8551	8551	8551	6850
55°	3129	3129	3129	3129	3129	2901
65°	1873	1873	1873	1873	1873	1871
75°	1027	1027	1027	1027	1027	1088
85°	241	241	241	241	241	277
90°	17	27	45	29	17	18
95°	28	46	99	50	32	27
105°	133	260	663	287	175	177
115°	607	638	784	751	746	559
125°	439	410	421	427	479	400
135°	324	314	325	306	304	253
145°	271	267	283	279	278	171
155°	239	237	248	248	248	112
165°	226	226	232	232	231	65
175°	225	225	229	229	229	22
180°	228	228	228	228	228	

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TEST NUMBER: P1433301
CATALOG NUMBER: EHBR1-48-UNV-W-L930-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17621.5	17621.5	17621.5	17621.5	17621.5
2.5°	17680.7	17680.7	17680.7	17680.7	17680.7
5°	17786.3	17786.3	17786.3	17786.3	17786.3
7.5°	17993.9	17993.9	17993.9	17993.9	17993.9
10°	18313.6	18313.6	18313.6	18313.6	18313.6
12.5°	18728.9	18728.9	18728.9	18728.9	18728.9
15°	19229.5	19229.5	19229.5	19229.5	19229.5
17.5°	19802.5	19802.5	19802.5	19802.5	19802.5
20°	20421.3	20421.3	20421.3	20421.3	20421.3
22.5°	21044.3	21044.3	21044.3	21044.3	21044.3
25°	21570.2	21570.2	21570.2	21570.2	21570.2
27.5°	21853.2	21853.2	21853.2	21853.2	21853.2
30°	21777.1	21777.1	21777.1	21777.1	21777.1
32.5°	21131.6	21131.6	21131.6	21131.6	21131.6
35°	19778.5	19778.5	19778.5	19778.5	19778.5
37.5°	17668.7	17668.7	17668.7	17668.7	17668.7
40°	14821.1	14821.1	14821.1	14821.1	14821.1
42.5°	11600.3	11600.3	11600.3	11600.3	11600.3
45°	8551.4	8551.4	8551.4	8551.4	8551.4
47.5°	6112.1	6112.1	6112.1	6112.1	6112.1
50°	4561.1	4561.1	4561.1	4561.1	4561.1
52.5°	3693.2	3693.2	3693.2	3693.2	3693.2
55°	3129.2	3129.2	3129.2	3129.2	3129.2
57.5°	2717.4	2717.4	2717.4	2717.4	2717.4
60°	2387.9	2387.9	2387.9	2387.9	2387.9
62.5°	2113.3	2113.3	2113.3	2113.3	2113.3
65°	1872.6	1872.6	1872.6	1872.6	1872.6
67.5°	1660.0	1660.0	1660.0	1660.0	1660.0
70°	1448.1	1448.1	1448.1	1448.1	1448.1
72.5°	1236.9	1236.9	1236.9	1236.9	1236.9
75°	1027.1	1027.1	1027.1	1027.1	1027.1
77.5°	825.1	825.1	825.1	825.1	825.1
80°	625.1	625.1	625.1	625.1	625.1
82.5°	428.7	428.7	428.7	428.7	428.7
85°	240.8	240.8	240.8	240.8	240.8
87.5°	76.0	76.0	76.0	76.0	76.0
90°	17.1	26.7	44.8	29.1	17.1
92.5°	23.6	39.3	70.6	36.8	21.2
95°	27.9	46.0	99.0	49.6	31.5
97.5°	35.1	50.8	113.4	60.4	48.4
100°	46.0	59.3	176.1	73.7	64.1
102.5°	77.3	124.3	372.4	137.5	96.6
105°	132.7	260.4	662.7	286.9	174.8
107.5°	229.0	465.2	873.4	507.3	330.3
110°	427.3	617.6	916.3	697.1	528.4

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CATALOG NUMBER: EHBR1-48-UNV-W-L930-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*576.7*	663.4	877.8	769.3	687.4
115°	*606.8*	638.1	783.8	751.3	746.5
117.5°	*586.3*	582.7	665.8	675.4	721.2
120°	*543.0*	518.8	556.2	589.9	651.3
122.5°	*488.7*	459.8	476.7	502.0	563.4
125°	*438.9*	409.9	420.8	426.9	478.6
127.5°	*394.3*	375.0	381.1	373.8	406.4
130°	*364.8*	347.9	356.4	339.5	355.2
132.5°	*341.0*	330.1	339.7	319.3	324.1
135°	*323.6*	313.9	324.8	305.5	304.3
137.5°	*308.6*	300.2	311.0	296.6	293.0
140°	*295.6*	288.4	300.4	289.6	287.2
142.5°	*280.7*	275.8	290.3	283.1	280.7
145°	*270.6*	266.9	282.6	279.0	277.8
147.5°	*261.6*	259.2	273.7	272.4	272.4
150°	*253.2*	250.8	265.2	264.0	265.2
152.5°	*244.8*	242.4	255.6	254.4	255.6
155°	*239.4*	237.0	247.8	247.8	247.8
157.5°	*234.5*	233.3	241.8	241.8	241.8
160°	*231.6*	230.4	237.7	237.7	236.4
162.5°	*228.8*	227.5	236.0	234.7	234.7
165°	*226.3*	226.3	232.3	232.3	231.2
167.5°	*226.3*	225.1	231.2	231.2	229.9
170°	*225.1*	225.1	229.9	228.8	227.5
172.5°	*225.8*	225.8	230.6	229.5	228.2
175°	*225.4*	225.4	228.9	228.9	228.9
177.5°	*226.5*	226.5	228.9	228.9	227.8
180°	*228.5*	228.5	228.5	228.5	228.5

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TEST NUMBER: P1433301
CATALOG NUMBER: EHBR1-48-UNV-W-L930-UPL24

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	19.45	20.68	19.90	21.09	21.53	19.45	20.68	19.90	21.09	21.53
	3H	20.95	22.04	21.41	22.47	22.95	20.95	22.04	21.41	22.47	22.95
	4H	21.51	22.53	22.00	22.98	23.48	21.51	22.53	22.00	22.98	23.48
	6H	21.90	22.83	22.39	23.30	23.81	21.90	22.83	22.39	23.30	23.81
	8H	22.00	22.88	22.51	23.37	23.89	22.00	22.88	22.51	23.37	23.89
	12H	22.03	22.88	22.55	23.36	23.90	22.03	22.88	22.55	23.36	23.90
4H	2H	19.89	20.91	20.38	21.36	21.86	19.89	20.91	20.38	21.36	21.86
	3H	21.62	22.45	22.11	22.95	23.47	21.62	22.45	22.11	22.95	23.47
	4H	22.29	23.04	22.81	23.55	24.11	22.29	23.04	22.81	23.55	24.11
	6H	22.79	23.44	23.34	23.97	24.55	22.79	23.44	23.34	23.97	24.55
	8H	22.92	23.53	23.47	24.06	24.65	22.92	23.53	23.47	24.06	24.65
	12H	22.99	23.52	23.55	24.09	24.67	22.99	23.52	23.55	24.09	24.67
8H	4H	22.50	23.10	23.05	23.64	24.22	22.50	23.10	23.05	23.64	24.22
	6H	23.09	23.59	23.68	24.17	24.76	23.09	23.59	23.68	24.17	24.76
	8H	23.28	23.72	23.88	24.32	24.92	23.28	23.72	23.88	24.32	24.92
	12H	23.39	23.78	23.98	24.36	25.04	23.39	23.78	23.98	24.36	25.04
12H	4H	22.50	23.03	23.06	23.60	24.18	22.50	23.03	23.06	23.60	24.18
	6H	23.11	23.55	23.71	24.15	24.75	23.11	23.55	23.71	24.15	24.75
	8H	23.34	23.73	23.93	24.30	24.98	23.34	23.73	23.93	24.30	24.98

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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: SP1-2506-472-5

Test Date: 08/01/2025

Luminaire Tested: EHBR-60-L930-N

Data in this report applies to families of products including EHBR-60-L930-N

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

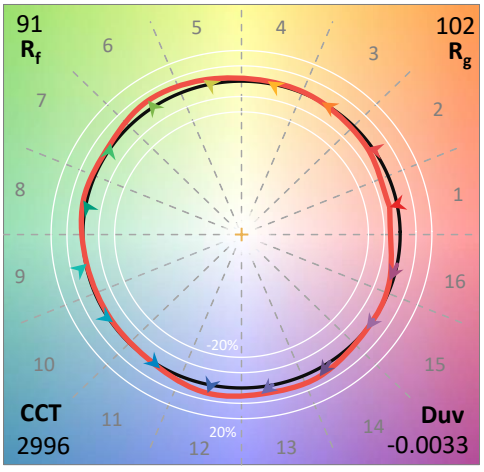
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-5
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-L930-N**
Description:	Elevate Round Highbay at, 60000 lumens, 3000K 90CRI LEDs with N lens

Spectral Parameters

CCT (K):	2996
CIE u':	0.2519
CIE v':	0.5169
Duv:	-0.0033
CIE x:	0.4325
CIE y:	0.3945
CIE z:	0.1730
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	584
Purity:	48.21818
Rf:	91.3
Rg:	102

CRI (Ra):	94.4
R1:	96.8
R2:	98.1
R3:	97.8
R4:	95.6
R5:	96.9
R6:	95.7
R7:	90.9
R8:	83.0
R9:	61.4
R10:	94.4
R11:	95.7
R12:	88.5
R13:	97.3
R14:	97.8
R15:	92.3



Test Conditions

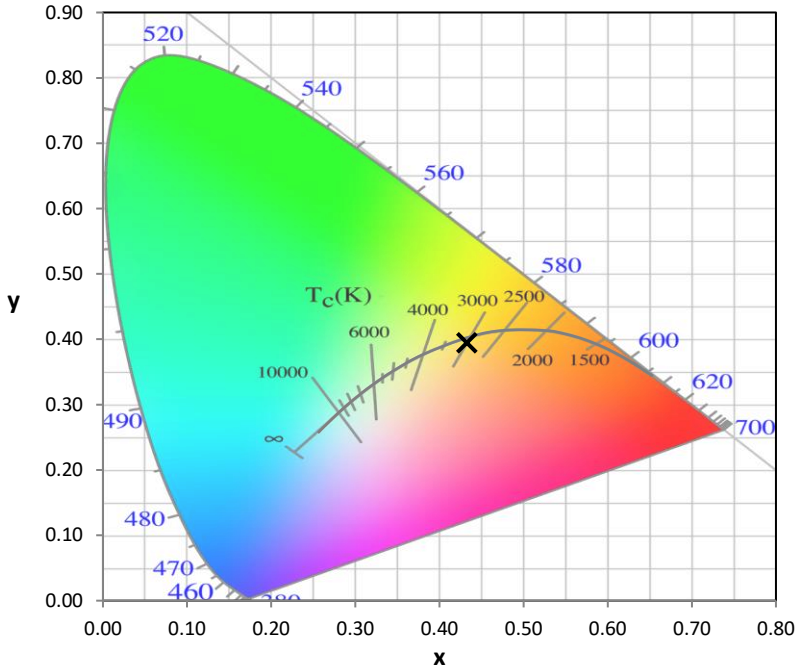
Stabilization Time:	40M
Operation Time:	1H 40M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-5

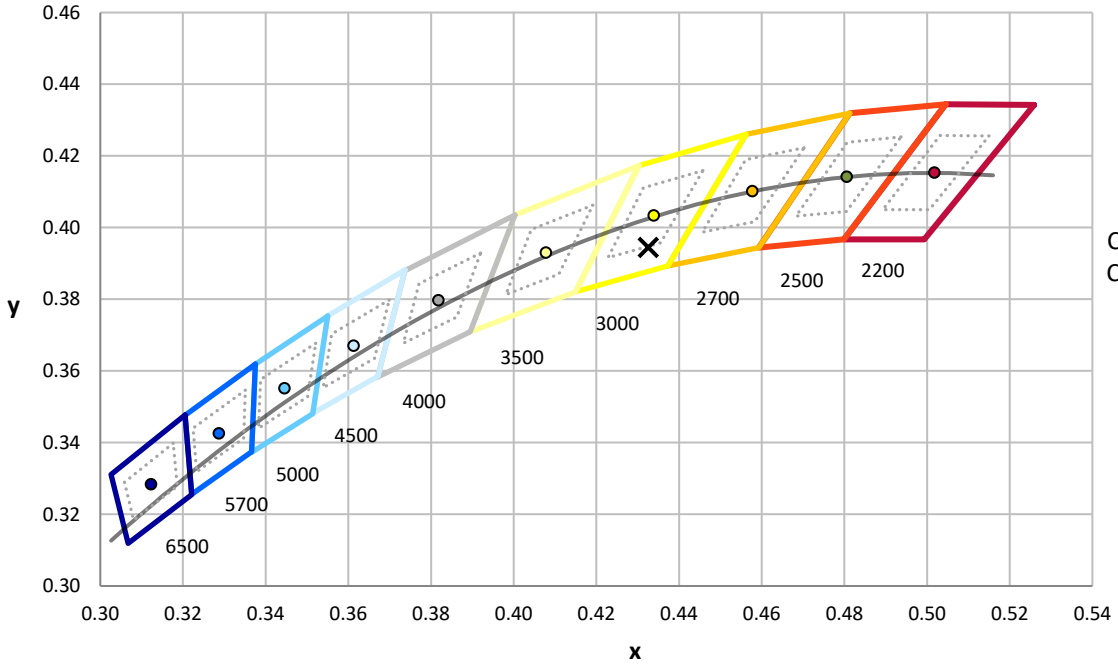
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-472-5

CIE 1931 Chromaticity Diagram



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

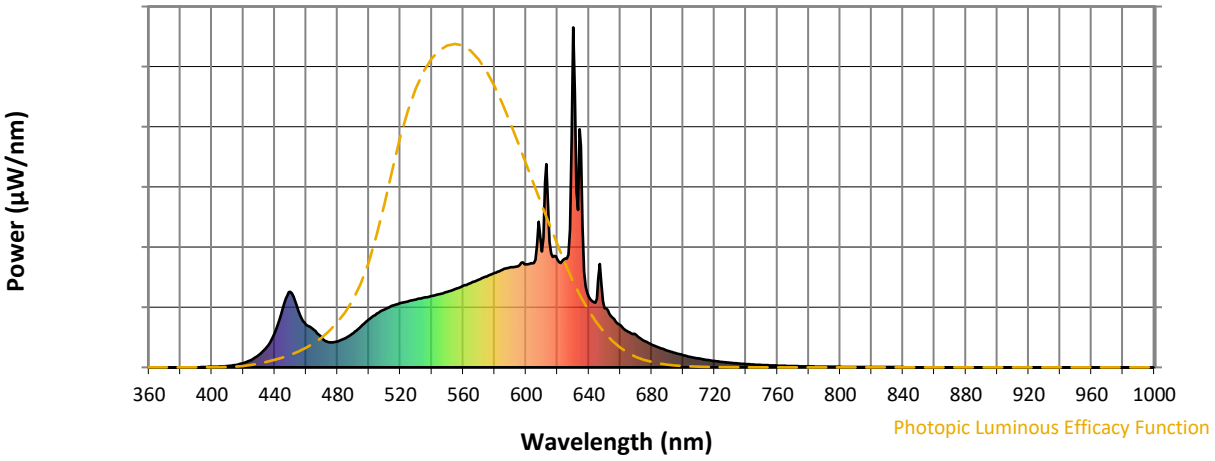


CCT = 2996K
CIE x = 0.4325
CIE y = 0.3945
Duv = -0.0033

Point lies inside the ANSI 3000K 7-step quadrangle

REPORT NUMBER: SP1-2506-472-5

Photopic Flux vs. Wavelength

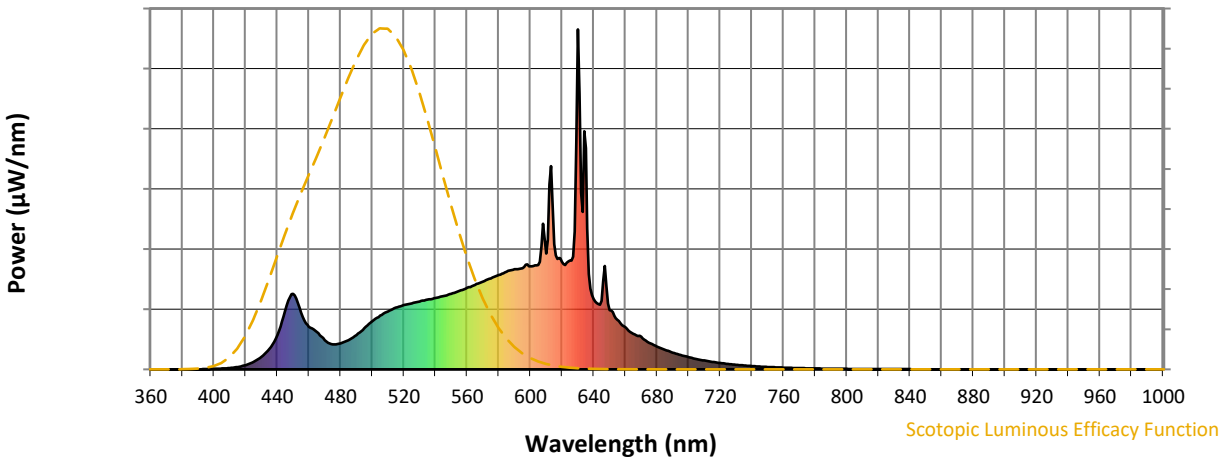


Photopic Lumens: NR

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	101	NR	620	317	NR	750	7	NR	880	0	NR
365	0	NR	495	121	NR	625	320	NR	755	6	NR	885	0	NR
370	0	NR	500	141	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	158	NR	635	651	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	207	NR	770	4	NR	900	0	NR
385	0	NR	515	182	NR	645	201	NR	775	3	NR	905	0	NR
390	0	NR	520	189	NR	650	174	NR	780	3	NR	910	0	NR
395	1	NR	525	194	NR	655	146	NR	785	2	NR	915	0	NR
400	1	NR	530	199	NR	660	124	NR	790	2	NR	920	0	NR
405	3	NR	535	205	NR	665	105	NR	795	2	NR	925	0	NR
410	4	NR	540	210	NR	670	96	NR	800	1	NR	930	0	NR
415	7	NR	545	216	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	222	NR	680	67	NR	810	1	NR	940	0	NR
425	22	NR	555	230	NR	685	58	NR	815	1	NR	945	0	NR
430	37	NR	560	240	NR	690	49	NR	820	1	NR	950	0	NR
435	60	NR	565	248	NR	695	42	NR	825	1	NR	955	0	NR
440	101	NR	570	258	NR	700	36	NR	830	1	NR	960	0	NR
445	172	NR	575	268	NR	705	30	NR	835	1	NR	965	0	NR
450	223	NR	580	278	NR	710	26	NR	840	1	NR	970	0	NR
455	167	NR	585	287	NR	715	22	NR	845	0	NR	975	0	NR
460	126	NR	590	295	NR	720	19	NR	850	0	NR	980	0	NR
465	111	NR	595	298	NR	725	16	NR	855	0	NR	985	0	NR
470	86	NR	600	303	NR	730	14	NR	860	0	NR	990	0	NR
475	74	NR	605	307	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	341	NR	740	10	NR	870	0	NR	1000	0	NR
485	86	NR	615	368	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-5

Scotopic Flux vs. Wavelength

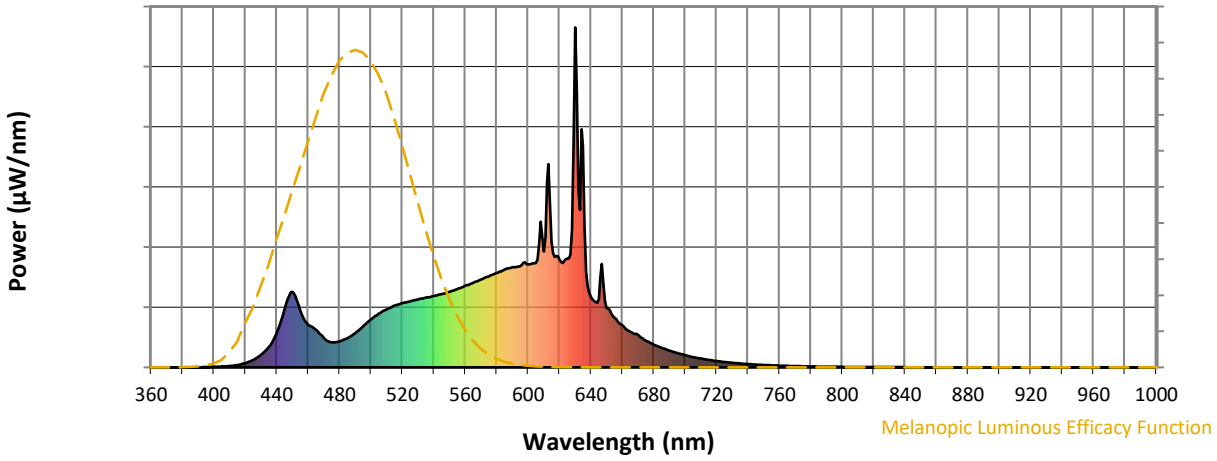


Scotopic Lumens: NR **S/P: 1.44**

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	101	NR	620	317	NR	750	7	NR	880	0	NR
365	0	NR	495	121	NR	625	320	NR	755	6	NR	885	0	NR
370	0	NR	500	141	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	158	NR	635	651	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	207	NR	770	4	NR	900	0	NR
385	0	NR	515	182	NR	645	201	NR	775	3	NR	905	0	NR
390	0	NR	520	189	NR	650	174	NR	780	3	NR	910	0	NR
395	1	NR	525	194	NR	655	146	NR	785	2	NR	915	0	NR
400	1	NR	530	199	NR	660	124	NR	790	2	NR	920	0	NR
405	3	NR	535	205	NR	665	105	NR	795	2	NR	925	0	NR
410	4	NR	540	210	NR	670	96	NR	800	1	NR	930	0	NR
415	7	NR	545	216	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	222	NR	680	67	NR	810	1	NR	940	0	NR
425	22	NR	555	230	NR	685	58	NR	815	1	NR	945	0	NR
430	37	NR	560	240	NR	690	49	NR	820	1	NR	950	0	NR
435	60	NR	565	248	NR	695	42	NR	825	1	NR	955	0	NR
440	101	NR	570	258	NR	700	36	NR	830	1	NR	960	0	NR
445	172	NR	575	268	NR	705	30	NR	835	1	NR	965	0	NR
450	223	NR	580	278	NR	710	26	NR	840	1	NR	970	0	NR
455	167	NR	585	287	NR	715	22	NR	845	0	NR	975	0	NR
460	126	NR	590	295	NR	720	19	NR	850	0	NR	980	0	NR
465	111	NR	595	298	NR	725	16	NR	855	0	NR	985	0	NR
470	86	NR	600	303	NR	730	14	NR	860	0	NR	990	0	NR
475	74	NR	605	307	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	341	NR	740	10	NR	870	0	NR	1000	0	NR
485	86	NR	615	368	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.85**

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	101	NR	620	317	NR	750	7	NR	880	0	NR
365	0	NR	495	121	NR	625	320	NR	755	6	NR	885	0	NR
370	0	NR	500	141	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	158	NR	635	651	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	207	NR	770	4	NR	900	0	NR
385	0	NR	515	182	NR	645	201	NR	775	3	NR	905	0	NR
390	0	NR	520	189	NR	650	174	NR	780	3	NR	910	0	NR
395	1	NR	525	194	NR	655	146	NR	785	2	NR	915	0	NR
400	1	NR	530	199	NR	660	124	NR	790	2	NR	920	0	NR
405	3	NR	535	205	NR	665	105	NR	795	2	NR	925	0	NR
410	4	NR	540	210	NR	670	96	NR	800	1	NR	930	0	NR
415	7	NR	545	216	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	222	NR	680	67	NR	810	1	NR	940	0	NR
425	22	NR	555	230	NR	685	58	NR	815	1	NR	945	0	NR
430	37	NR	560	240	NR	690	49	NR	820	1	NR	950	0	NR
435	60	NR	565	248	NR	695	42	NR	825	1	NR	955	0	NR
440	101	NR	570	258	NR	700	36	NR	830	1	NR	960	0	NR
445	172	NR	575	268	NR	705	30	NR	835	1	NR	965	0	NR
450	223	NR	580	278	NR	710	26	NR	840	1	NR	970	0	NR
455	167	NR	585	287	NR	715	22	NR	845	0	NR	975	0	NR
460	126	NR	590	295	NR	720	19	NR	850	0	NR	980	0	NR
465	111	NR	595	298	NR	725	16	NR	855	0	NR	985	0	NR
470	86	NR	600	303	NR	730	14	NR	860	0	NR	990	0	NR
475	74	NR	605	307	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	341	NR	740	10	NR	870	0	NR	1000	0	NR
485	86	NR	615	368	NR	745	8	NR	875	0	NR			

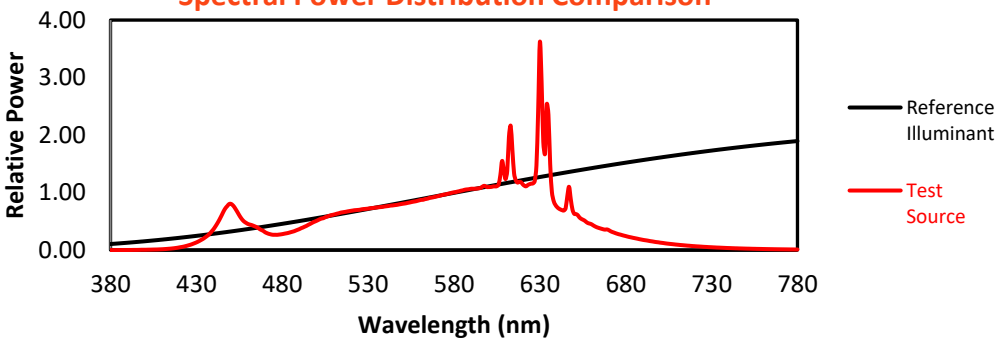
REPORT NUMBER: SP1-2506-472-5

TM-30-18

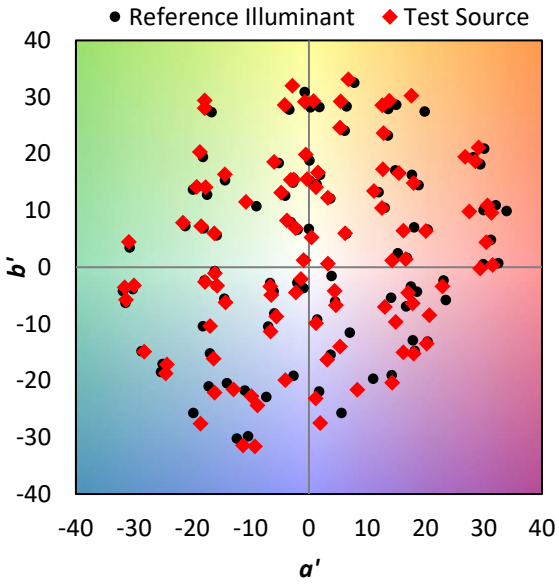
Summary

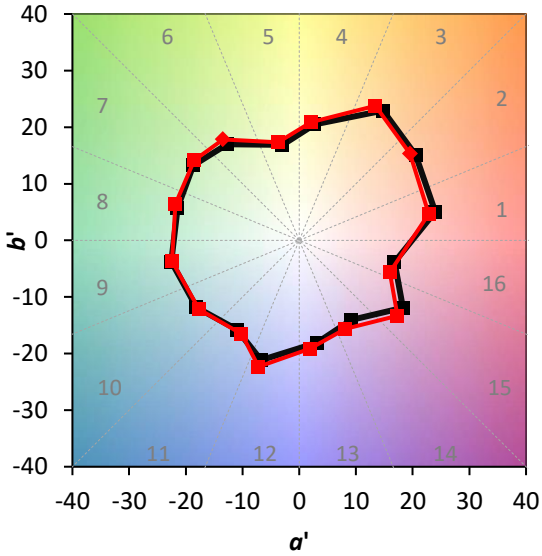
R_f = 91.3
R_g = 102
CIE R_a = 94.4
R_9 = 61.4

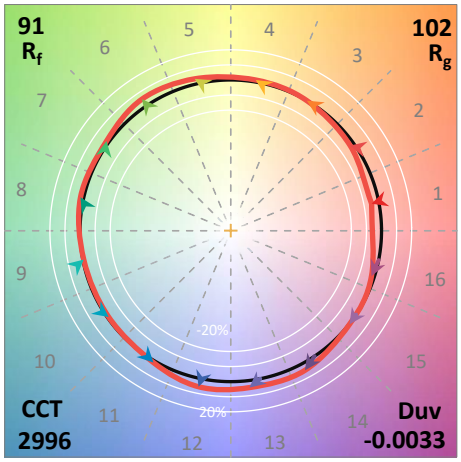
Spectral Power Distribution Comparison

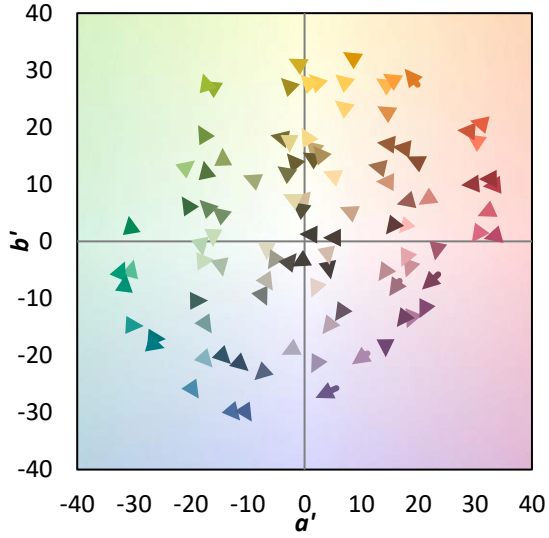


Color Vector Graphics







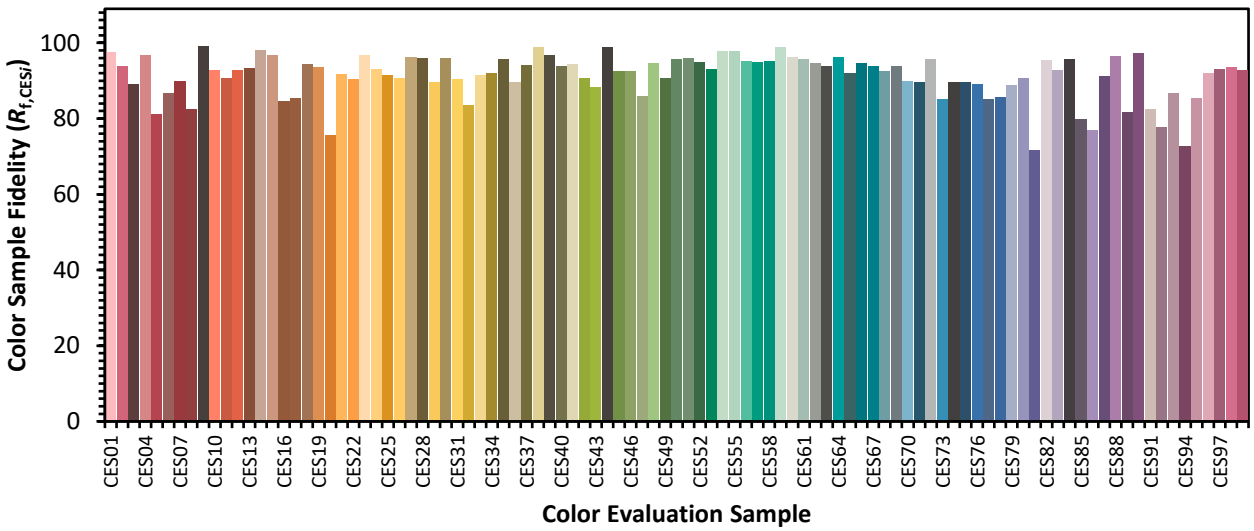


REPORT NUMBER: SP1-2506-472-5

TM-30-18

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

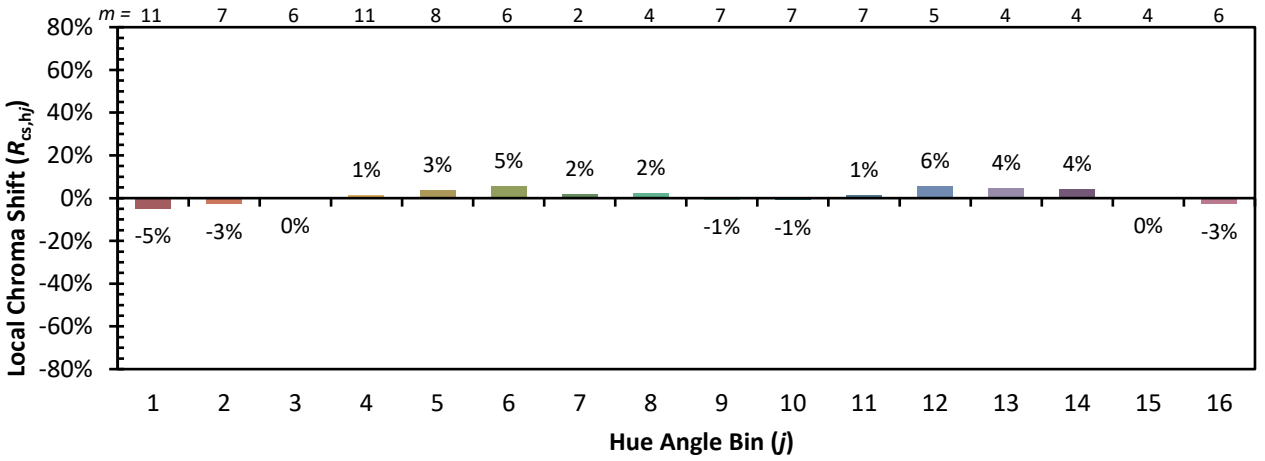
CES01 = 86	CES26 = 91	CES51 = 96	CES76 = 89
CES02 = 63	CES27 = 96	CES52 = 95	CES77 = 85
CES03 = 32	CES28 = 96	CES53 = 93	CES78 = 86
CES04 = 70	CES29 = 90	CES54 = 98	CES79 = 89
CES05 = 51	CES30 = 96	CES55 = 98	CES80 = 91
CES06 = 51	CES31 = 90	CES56 = 95	CES81 = 72
CES07 = 44	CES32 = 84	CES57 = 95	CES82 = 95
CES08 = 42	CES33 = 91	CES58 = 95	CES83 = 93
CES09 = 29	CES34 = 92	CES59 = 99	CES84 = 96
CES10 = 76	CES35 = 96	CES60 = 96	CES85 = 80
CES11 = 59	CES36 = 90	CES61 = 96	CES86 = 77
CES12 = 65	CES37 = 94	CES62 = 95	CES87 = 91
CES13 = 44	CES38 = 99	CES63 = 94	CES88 = 96
CES14 = 74	CES39 = 97	CES64 = 96	CES89 = 82
CES15 = 72	CES40 = 94	CES65 = 92	CES90 = 97
CES16 = 48	CES41 = 94	CES66 = 95	CES91 = 82
CES17 = 50	CES42 = 91	CES67 = 94	CES92 = 78
CES18 = 57	CES43 = 88	CES68 = 93	CES93 = 87
CES19 = 72	CES44 = 99	CES69 = 94	CES94 = 73
CES20 = 67	CES45 = 93	CES70 = 90	CES95 = 85
CES21 = 86	CES46 = 93	CES71 = 90	CES96 = 92
CES22 = 79	CES47 = 86	CES72 = 96	CES97 = 93
CES23 = 92	CES48 = 95	CES73 = 85	CES98 = 94
CES24 = 91	CES49 = 91	CES74 = 90	CES99 = 93
CES25 = 72	CES50 = 96	CES75 = 90	

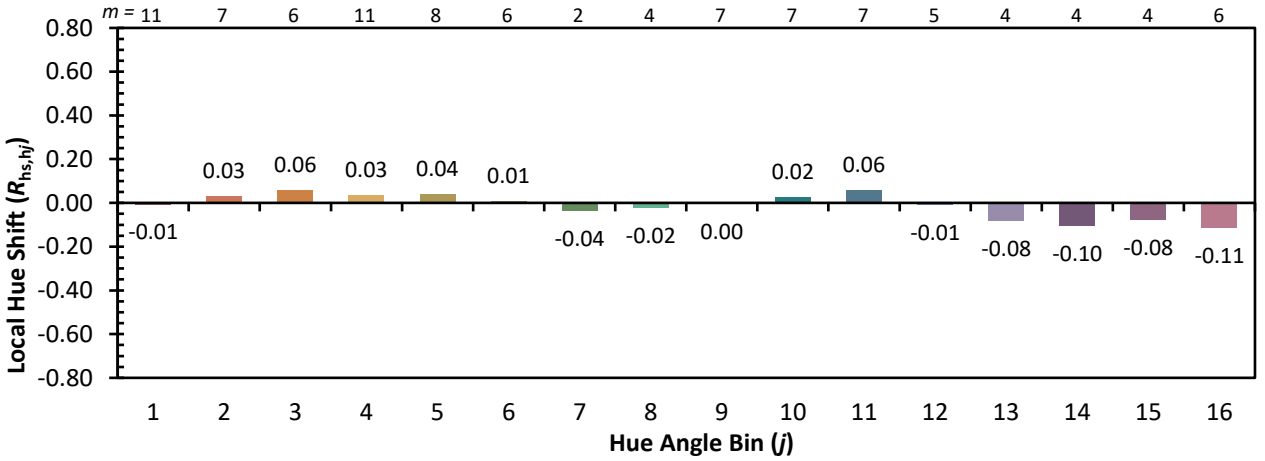


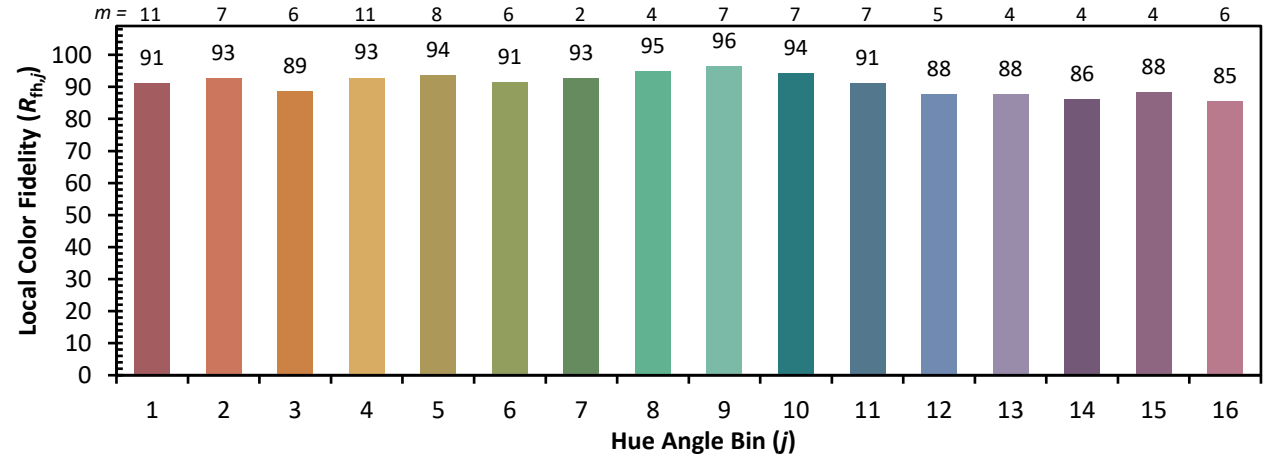
REPORT NUMBER: SP1-2506-472-5

TM-30-18

Color Rendition by Hue-Angle Bin



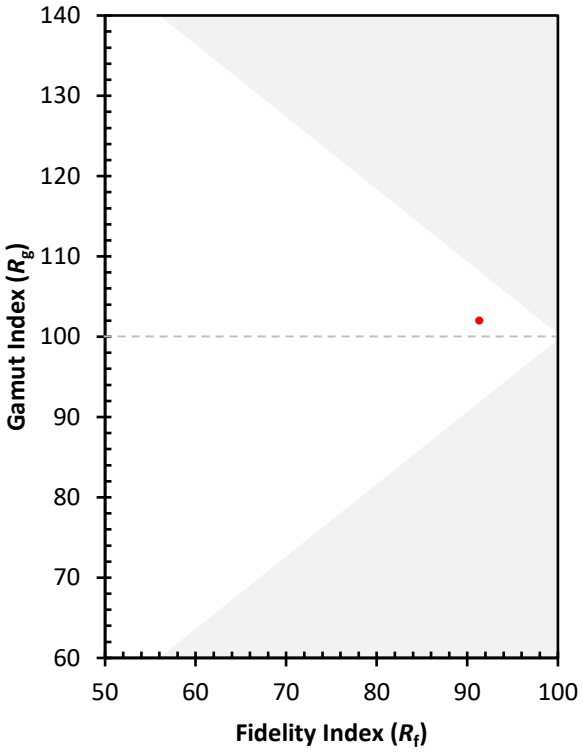


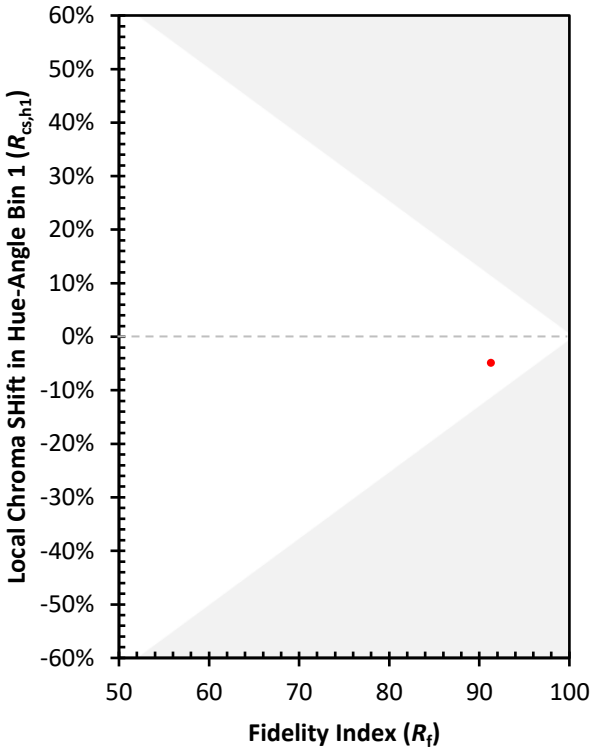


REPORT NUMBER: SP1-2506-472-5

TM-30-18

Measure Comparisons





(END OF REPORT)