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: P1432405

Luminaire Tested: EHBR1-36-UNV-N-L830-UPL18

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:	P1432405
	REPORT IS A COMBINATION OF REPORTS P1431782 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	3/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-36-UNV-N-L830-UPL18
Description:	Elevate Round Highbay at, 36000 lumens, 3000K 80CRI LEDs with N lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	35924.5 lumens
Efficiency:	N/A
Efficacy:	176.7 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):	203.3
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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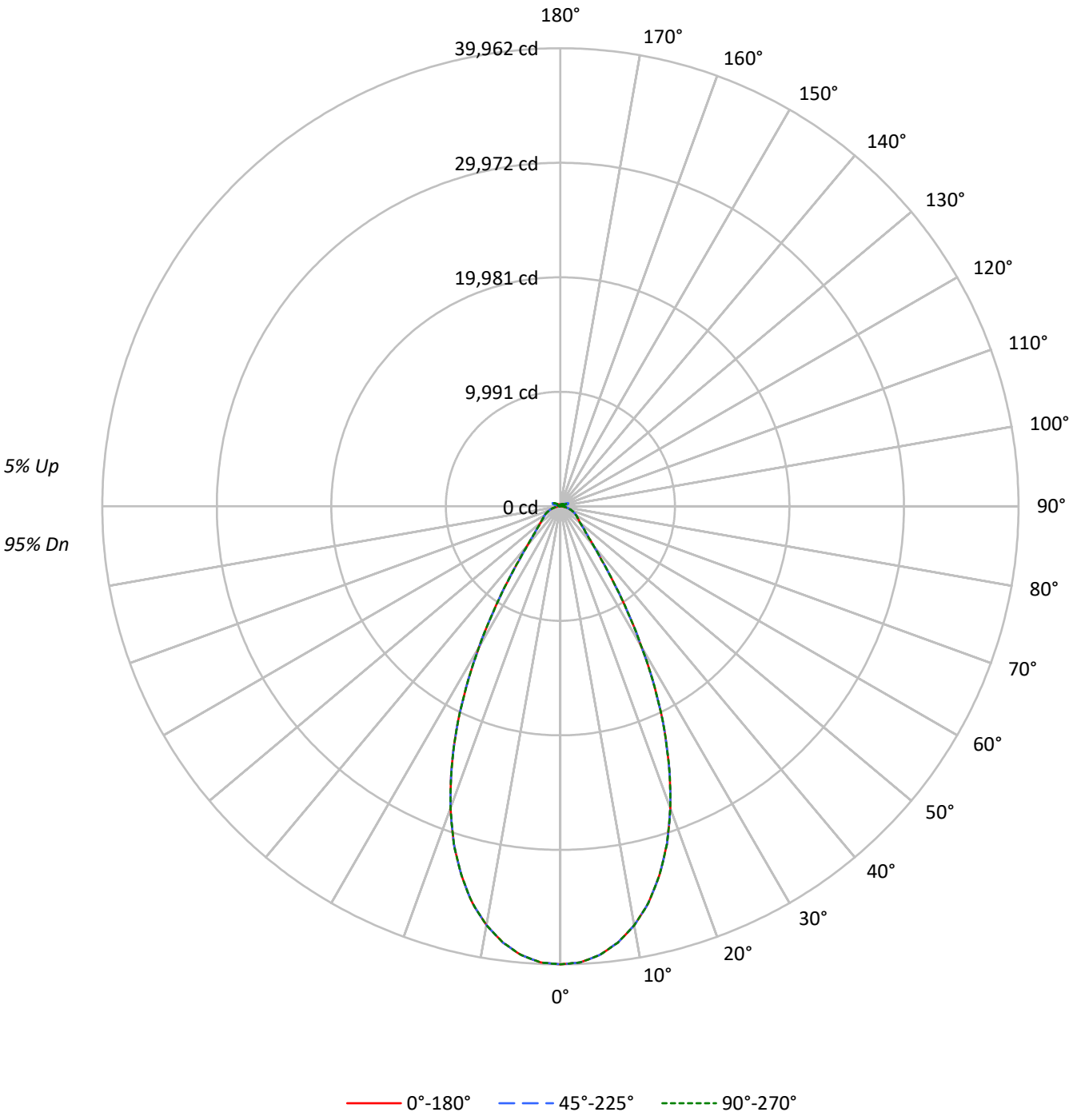
Luminous Intensity Polar Plot



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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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	95
1	111	108	105	102	108	105	103	100	100	98	96	96	94	92	92	90	89	87
2	105	99	94	90	102	97	92	89	93	89	86	89	86	84	85	83	81	79
3	98	91	85	81	96	89	84	80	86	82	78	83	79	76	80	77	74	73
4	93	84	78	73	91	83	77	73	80	75	71	77	73	70	75	72	69	67
5	88	79	72	67	86	77	71	67	75	70	66	73	68	65	71	67	64	62
6	83	73	67	62	81	72	66	62	70	65	61	68	64	60	67	63	59	58
7	79	69	62	58	77	68	62	57	66	61	57	64	60	56	63	59	56	54
8	75	65	58	54	73	64	58	54	62	57	53	61	56	53	60	55	52	51
9	71	61	55	51	70	60	54	50	59	54	50	58	53	49	57	52	49	48
10	68	58	52	48	67	57	51	47	56	51	47	55	50	47	54	49	46	45

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	187664	187664	187664
5°	184021	184021	184021
10°	174658	174658	174658
15°	158915	158915	158915
20°	136315	136315	136315
25°	107233	107233	107233
30°	73589	73589	73589
35°	43715	43715	43715
40°	25865	25865	25865
45°	18567	18567	18567
50°	15262	15262	15262
55°	13870	13870	13870
60°	13278	13278	13278
65°	12665	12665	12665
70°	11777	11777	11777
75°	10647	10647	10647
80°	8837	8837	8837
85°	5595	5595	5595

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 18567 cd/sqm

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TEST NUMBER: P1432405
CATALOG NUMBER: EHBR1-36-UNV-N-L830-UPL18

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3681.1	10.2
10°-20°	9240.2	25.7
20°-30°	9661.6	26.9
30°-40°	5234.9	14.6
40°-50°	2408.3	6.7
50°-60°	1697.2	4.7
60°-70°	1306.1	3.6
70°-80°	791.8	2.2
80°-90°	226.0	0.6
90°-100°	48.0	0.1
100°-110°	299.7	0.8
110°-120°	535.8	1.5
120°-130°	314.4	0.9
130°-140°	192.9	0.5
140°-150°	133.8	0.4
150°-160°	86.9	0.2
160°-170°	49.5	0.1
170°-180°	16.4	0.0
0°-30°	22582.9	62.9
0°-40°	27817.8	77.4
0°-60°	31923.3	88.9
0°-90°	34247.2	95.3
90°-120°	883.5	2.5
90°-150°	1524.5	4.2
90°-180°	1677.0	4.7
0°-180°	35924.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	39962	39962	39962	39962	39962	
5°	39291	39291	39291	39291	39291	3681
15°	33340	33340	33340	33340	33340	9240
25°	21414	21414	21414	21414	21414	9662
35°	8023	8023	8023	8023	8023	5235
45°	3004	3004	3004	3004	3004	2408
55°	1874	1874	1874	1874	1874	1697
65°	1322	1322	1322	1322	1322	1306
75°	750	750	750	750	750	792
85°	192	192	192	192	192	213
90°	14	21	36	23	14	16
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: P1432405
CATALOG NUMBER: EHBR1-36-UNV-N-L830-UPL18

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	39961.7	39961.7	39961.7	39961.7	39961.7
2.5°	39820.1	39820.1	39820.1	39820.1	39820.1
5°	39291.4	39291.4	39291.4	39291.4	39291.4
7.5°	38388.9	38388.9	38388.9	38388.9	38388.9
10°	37108.5	37108.5	37108.5	37108.5	37108.5
12.5°	35453.6	35453.6	35453.6	35453.6	35453.6
15°	33339.5	33339.5	33339.5	33339.5	33339.5
17.5°	30886.9	30886.9	30886.9	30886.9	30886.9
20°	28016.6	28016.6	28016.6	28016.6	28016.6
22.5°	24820.7	24820.7	24820.7	24820.7	24820.7
25°	21414.3	21414.3	21414.3	21414.3	21414.3
27.5°	17803.1	17803.1	17803.1	17803.1	17803.1
30°	14154.8	14154.8	14154.8	14154.8	14154.8
32.5°	10863.4	10863.4	10863.4	10863.4	10863.4
35°	8023.2	8023.2	8023.2	8023.2	8023.2
37.5°	5891.0	5891.0	5891.0	5891.0	5891.0
40°	4483.1	4483.1	4483.1	4483.1	4483.1
42.5°	3594.7	3594.7	3594.7	3594.7	3594.7
45°	3004.0	3004.0	3004.0	3004.0	3004.0
47.5°	2578.4	2578.4	2578.4	2578.4	2578.4
50°	2274.5	2274.5	2274.5	2274.5	2274.5
52.5°	2052.6	2052.6	2052.6	2052.6	2052.6
55°	1874.4	1874.4	1874.4	1874.4	1874.4
57.5°	1729.9	1729.9	1729.9	1729.9	1729.9
60°	1596.2	1596.2	1596.2	1596.2	1596.2
62.5°	1462.5	1462.5	1462.5	1462.5	1462.5
65°	1321.9	1321.9	1321.9	1321.9	1321.9
67.5°	1178.6	1178.6	1178.6	1178.6	1178.6
70°	1033.4	1033.4	1033.4	1033.4	1033.4
72.5°	892.3	892.3	892.3	892.3	892.3
75°	750.0	750.0	750.0	750.0	750.0
77.5°	610.6	610.6	610.6	610.6	610.6
80°	464.9	464.9	464.9	464.9	464.9
82.5°	325.5	325.5	325.5	325.5	325.5
85°	192.3	192.3	192.3	192.3	192.3
87.5°	68.8	68.8	68.8	68.8	68.8
90°	13.6	21.3	35.7	23.2	13.6
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

TEST NUMBER: P1432405
CATALOG NUMBER: EHBR1-36-UNV-N-L830-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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Scaled Data Report

TEST NUMBER: P1432405
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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	17.24	18.33	17.69	18.74	19.18	17.24	18.33	17.69	18.74	19.18
	3H	19.02	19.99	19.48	20.42	20.90	19.02	19.99	19.48	20.42	20.90
	4H	19.67	20.58	20.16	21.03	21.53	19.67	20.58	20.16	21.03	21.53
	6H	20.13	20.97	20.63	21.43	21.94	20.13	20.97	20.63	21.43	21.94
	8H	20.26	21.04	20.77	21.53	22.05	20.26	21.04	20.77	21.53	22.05
	12H	20.31	21.06	20.83	21.54	22.08	20.31	21.06	20.83	21.54	22.08
4H	2H	17.78	18.68	18.27	19.13	19.63	17.78	18.68	18.27	19.13	19.63
	3H	19.75	20.50	20.25	20.99	21.51	19.75	20.50	20.25	20.99	21.51
	4H	20.52	21.19	21.04	21.70	22.26	20.52	21.19	21.04	21.70	22.26
	6H	21.09	21.67	21.64	22.21	22.78	21.09	21.67	21.64	22.21	22.78
	8H	21.25	21.79	21.80	22.33	22.91	21.25	21.79	21.80	22.33	22.91
	12H	21.33	21.81	21.90	22.37	22.96	21.33	21.81	21.90	22.37	22.96
8H	4H	20.75	21.29	21.30	21.82	22.41	20.75	21.29	21.30	21.82	22.41
	6H	21.43	21.87	22.02	22.45	23.04	21.43	21.87	22.02	22.45	23.04
	8H	21.66	22.04	22.26	22.64	23.24	21.66	22.04	22.26	22.64	23.24
	12H	21.80	22.13	22.39	22.71	23.39	21.80	22.13	22.39	22.71	23.39
12H	4H	20.75	21.22	21.32	21.79	22.38	20.75	21.22	21.32	21.79	22.38
	6H	21.46	21.85	22.06	22.44	23.05	21.46	21.85	22.06	22.44	23.05
	8H	21.72	22.06	22.32	22.64	23.32	21.72	22.06	22.32	22.64	23.32

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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: SP1-2506-472-2

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L830-N

Data in this report applies to families of products including EHBR-60-L830-N

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

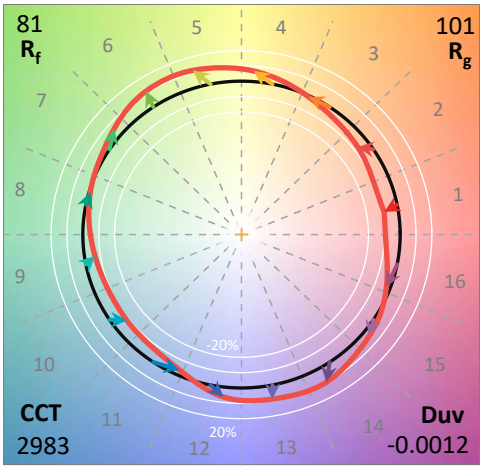
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-2
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-L830-N**
Description:	Elevate Round Highbay at, 60000 lumens, 3000K 80CRI LEDs with N lens

Spectral Parameters

CCT (K):	2983
CIE u':	0.2516
CIE v':	0.5201
Duv:	-0.0012
CIE x:	0.4364
CIE y:	0.4010
CIE z:	0.1626
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	583
Purity:	51.34918
Rf:	81.2
Rg:	101.5

CRI (Ra):	83.4				
R1:	84.0	R9:	29.4		
R2:	87.5	R10:	68.6		
R3:	88.9	R11:	82.2		
R4:	83.8	R12:	61.6		
R5:	81.9	R13:	83.9		
R6:	83.1	R14:	92.5		
R7:	87.1	R15:	79.8		
R8:	70.9				



Test Conditions

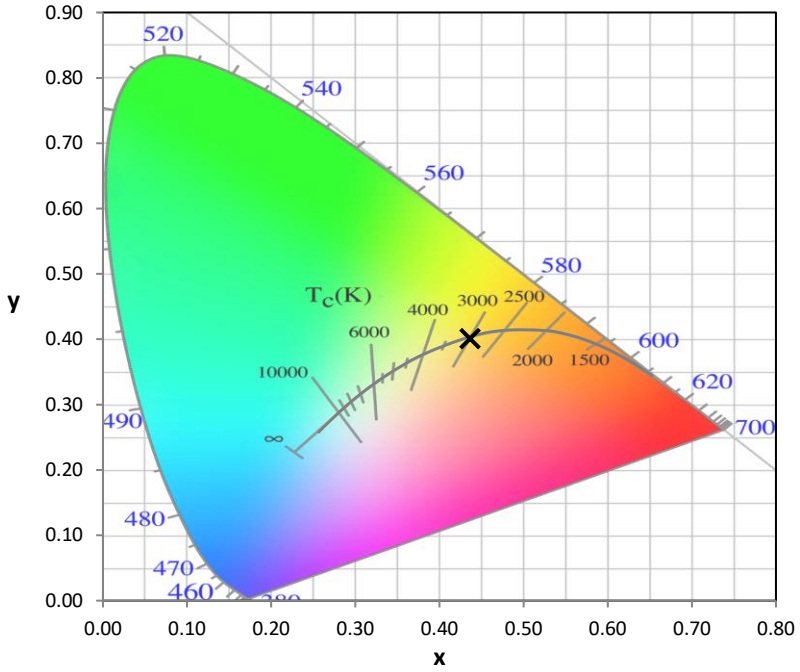
Stabilization Time:	38M
Operation Time:	1H 38M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-2

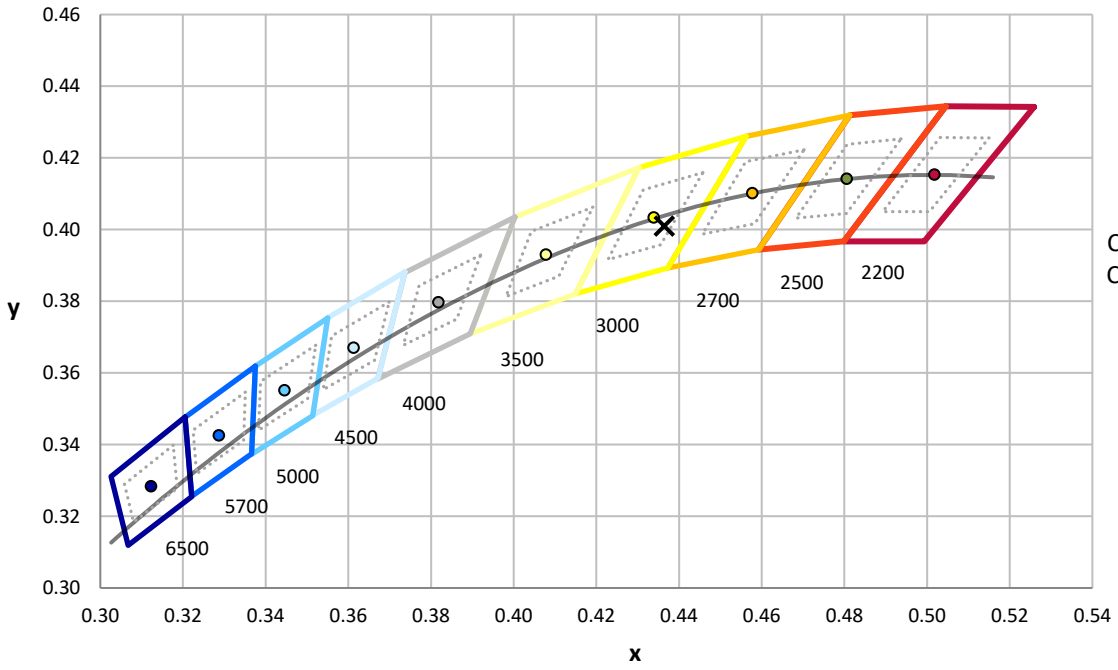
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-472-2

CIE 1931 Chromaticity Diagram



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

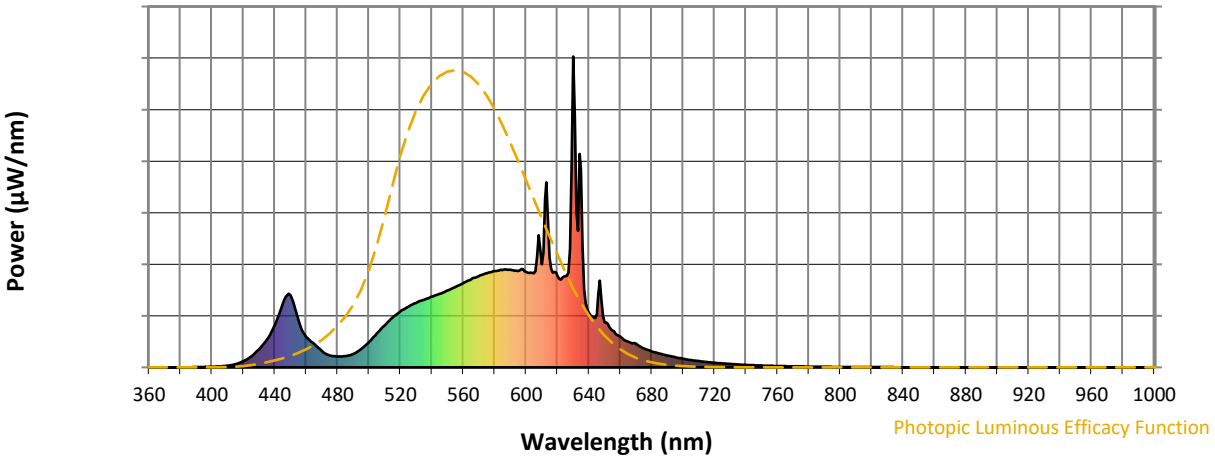


CCT = 2983K
CIE x = 0.4364
CIE y = 0.4010
Duv = -0.0012

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-2

Photopic Flux vs. Wavelength

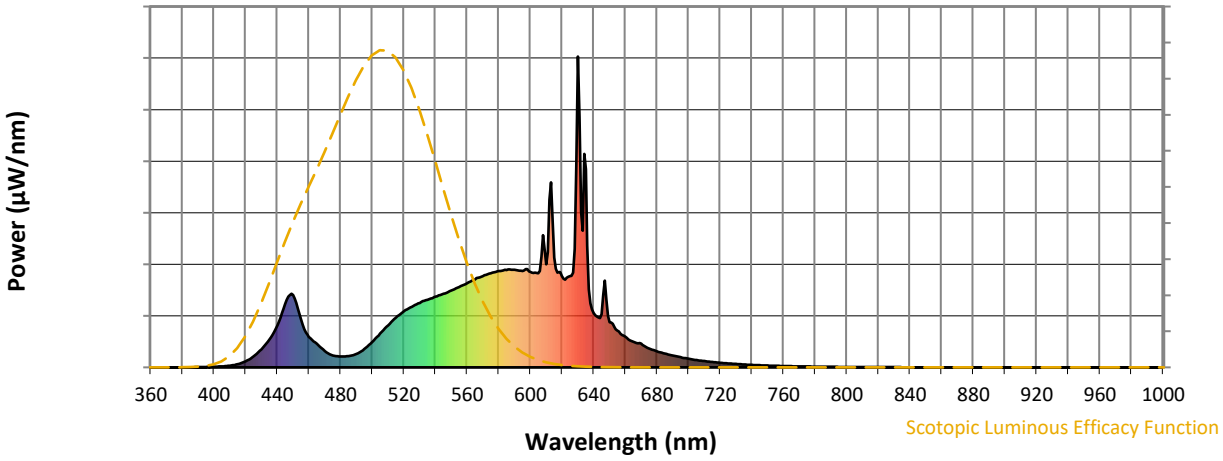


Photopic Lumens: NR

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	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-2

Scotopic Flux vs. Wavelength

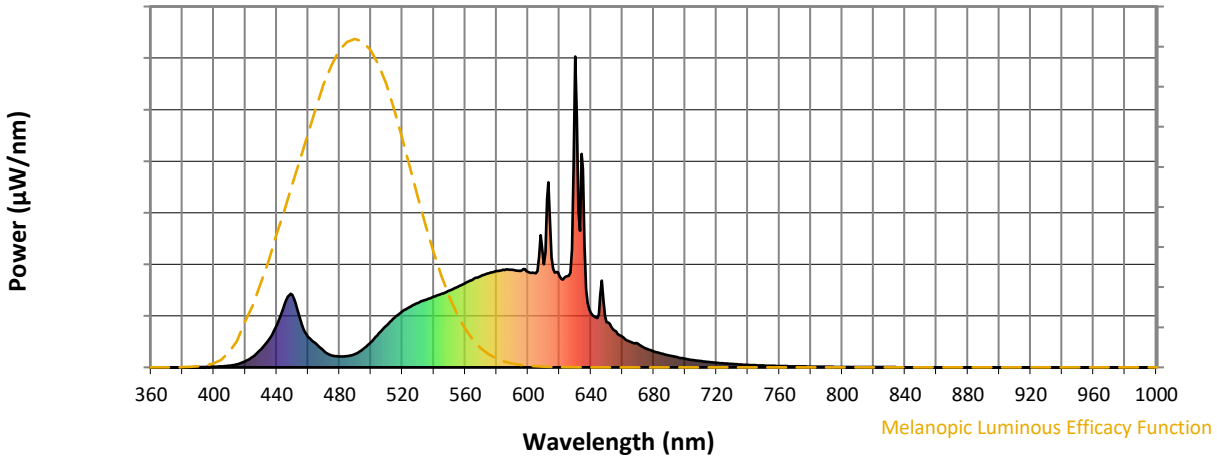


Scotopic Lumens: NR **S/P: 1.27**

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	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.34**

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	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

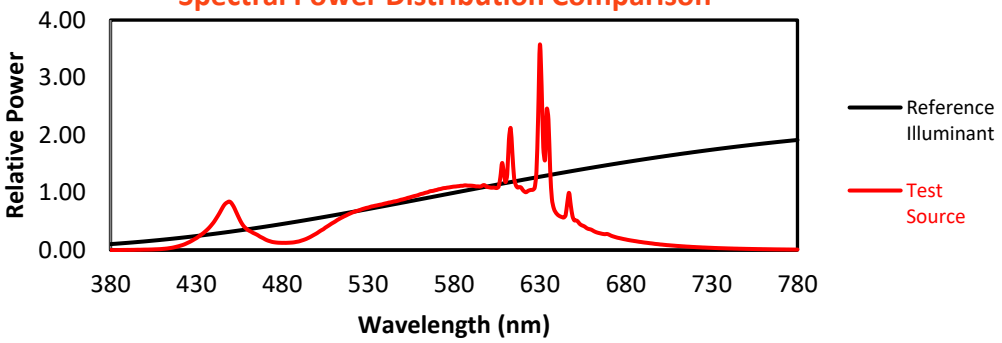
REPORT NUMBER: SP1-2506-472-2

TM-30-18

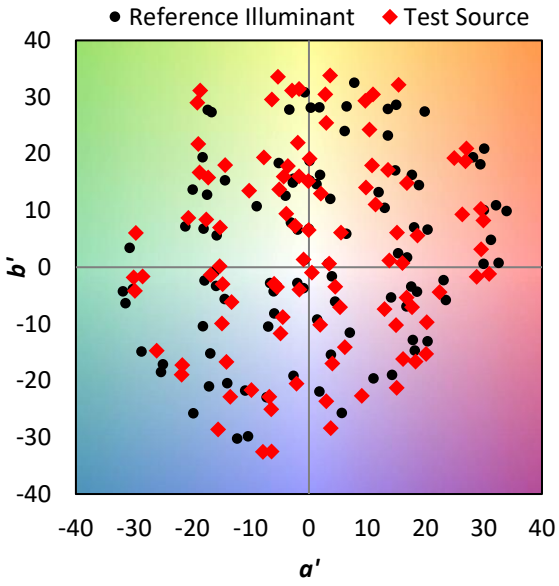
Summary

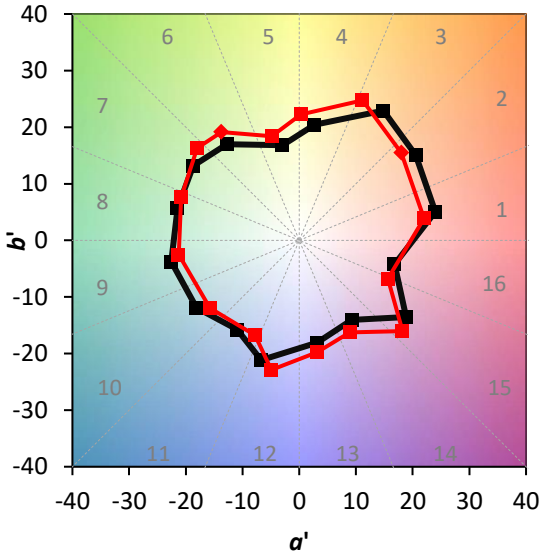
R_f = 81.2
R_g = 101.5
CIE R_a = 83.4
R_9 = 29.4

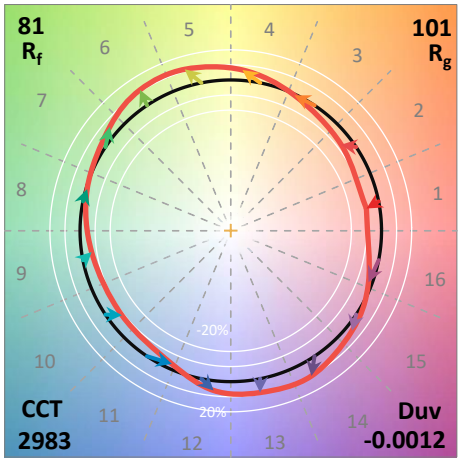
Spectral Power Distribution Comparison

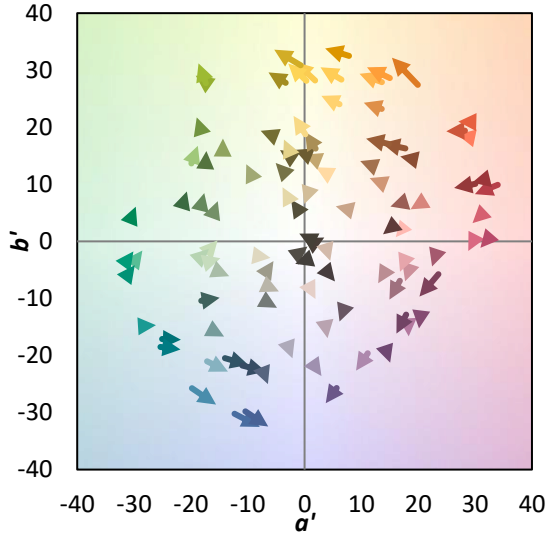


Color Vector Graphics







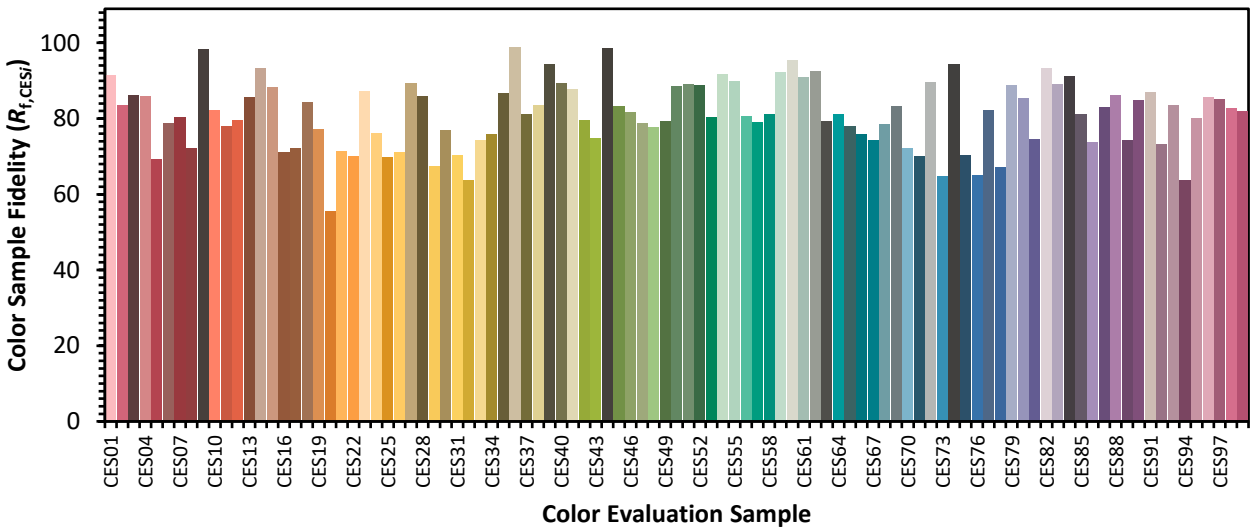


REPORT NUMBER: SP1-2506-472-2

TM-30-18

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

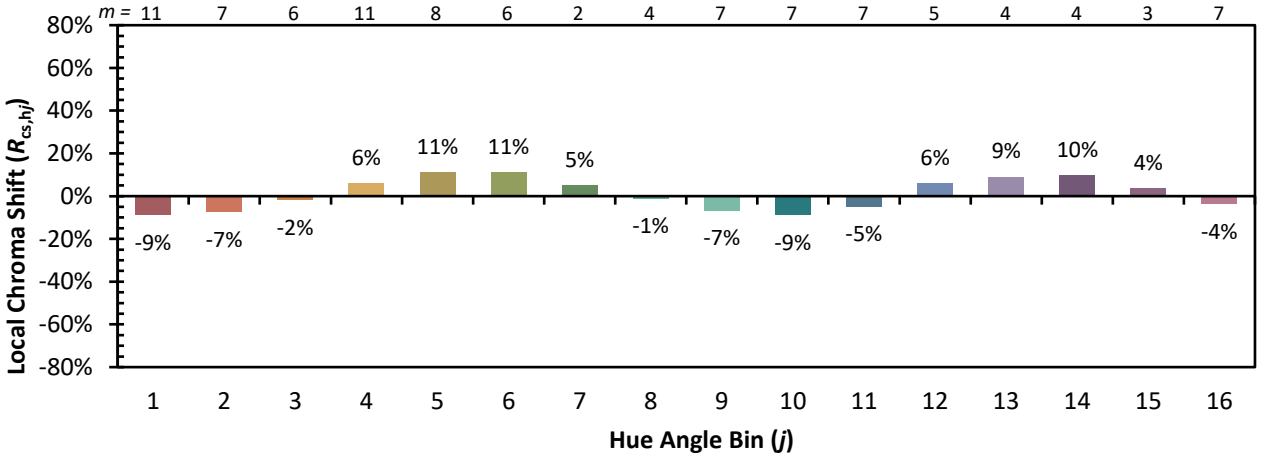
CES01 = 86	CES26 = 71	CES51 = 89	CES76 = 65
CES02 = 63	CES27 = 89	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 86	CES53 = 80	CES78 = 67
CES04 = 70	CES29 = 68	CES54 = 92	CES79 = 89
CES05 = 50	CES30 = 77	CES55 = 90	CES80 = 85
CES06 = 51	CES31 = 70	CES56 = 81	CES81 = 75
CES07 = 43	CES32 = 64	CES57 = 79	CES82 = 93
CES08 = 41	CES33 = 74	CES58 = 81	CES83 = 89
CES09 = 29	CES34 = 76	CES59 = 92	CES84 = 91
CES10 = 76	CES35 = 87	CES60 = 96	CES85 = 81
CES11 = 59	CES36 = 99	CES61 = 91	CES86 = 74
CES12 = 65	CES37 = 81	CES62 = 93	CES87 = 83
CES13 = 44	CES38 = 83	CES63 = 79	CES88 = 86
CES14 = 74	CES39 = 94	CES64 = 81	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 78	CES90 = 85
CES16 = 48	CES41 = 88	CES66 = 76	CES91 = 87
CES17 = 50	CES42 = 80	CES67 = 74	CES92 = 73
CES18 = 57	CES43 = 75	CES68 = 79	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 83	CES94 = 64
CES20 = 67	CES45 = 83	CES70 = 72	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 70	CES96 = 86
CES22 = 79	CES47 = 79	CES72 = 90	CES97 = 85
CES23 = 92	CES48 = 78	CES73 = 65	CES98 = 83
CES24 = 91	CES49 = 79	CES74 = 94	CES99 = 82
CES25 = 72	CES50 = 88	CES75 = 70	

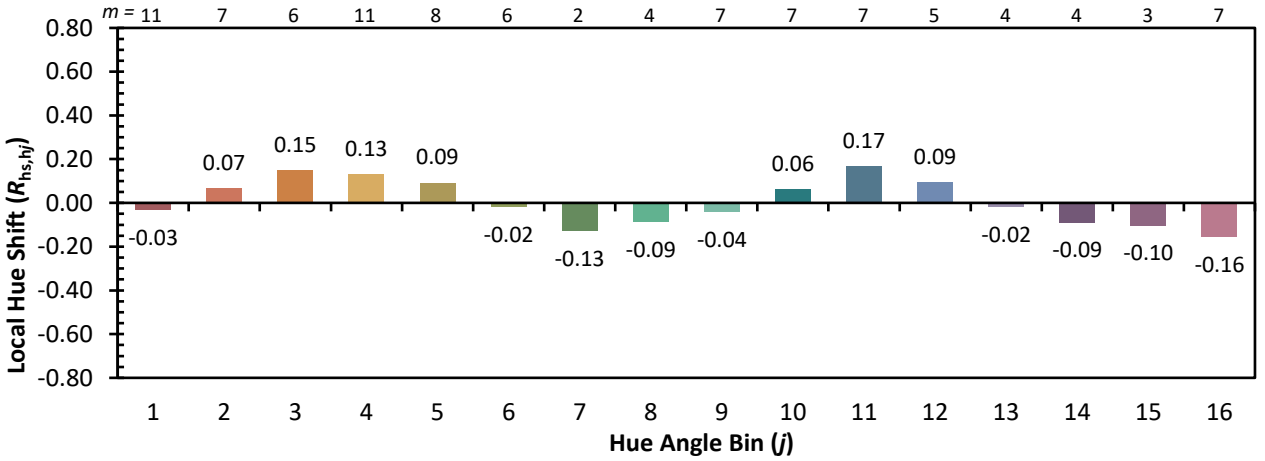


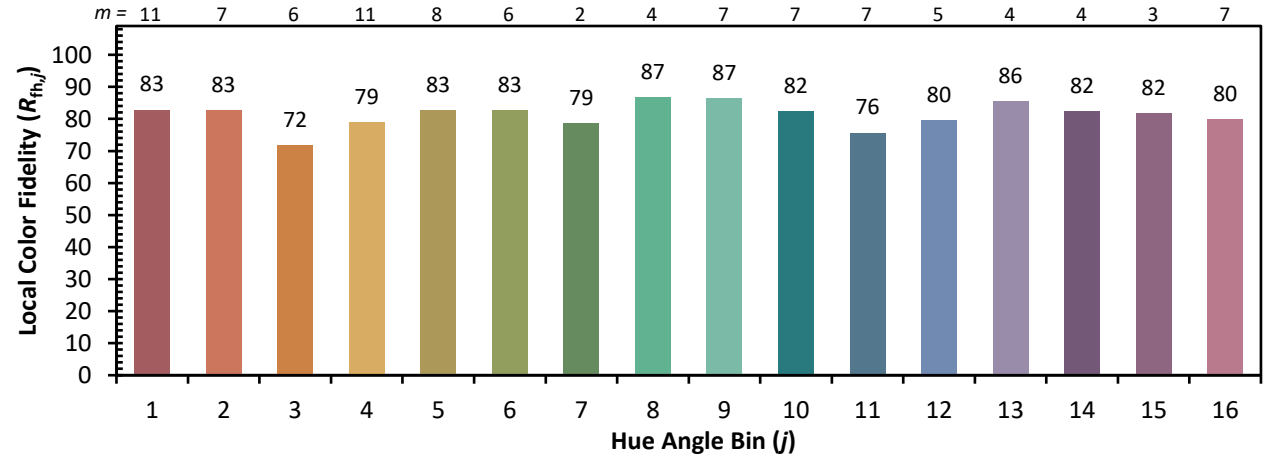
REPORT NUMBER: SP1-2506-472-2

TM-30-18

Color Rendition by Hue-Angle Bin



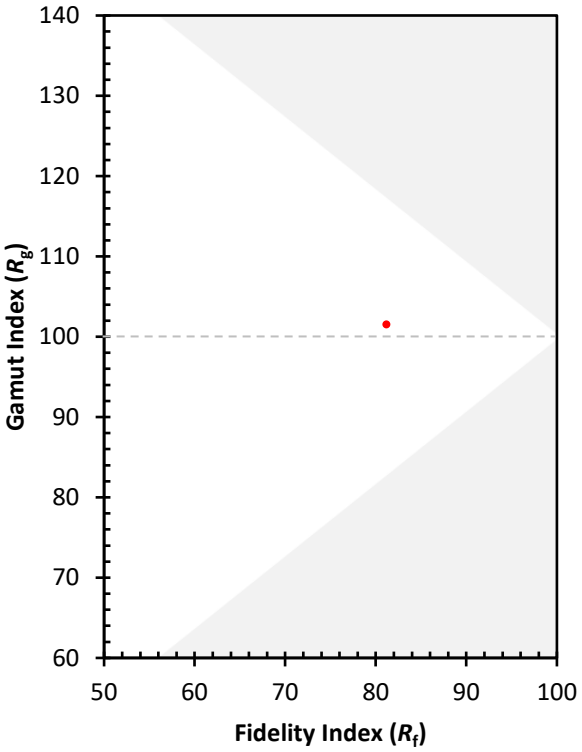


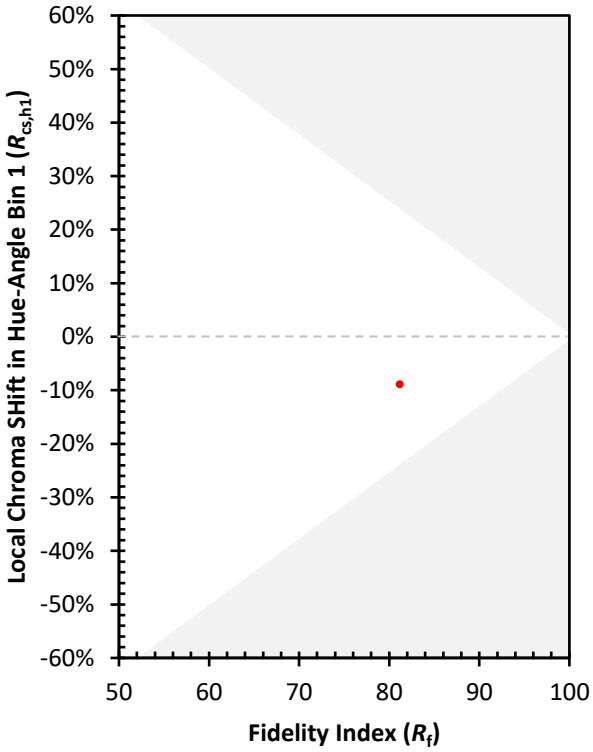


REPORT NUMBER: SP1-2506-472-2

TM-30-18

Measure Comparisons





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