

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



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P827031

Luminaire Tested: **OHB-30SE-A-UNV-L840-CD-UPL15**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827031
REPORT IS A COMBINATION OF REPORTS P826101 AND G3-2310-221-10
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-30SE-A-UNV-L840-CD-UPL15
Description: 30000 LUMEN OHB SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 1500 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

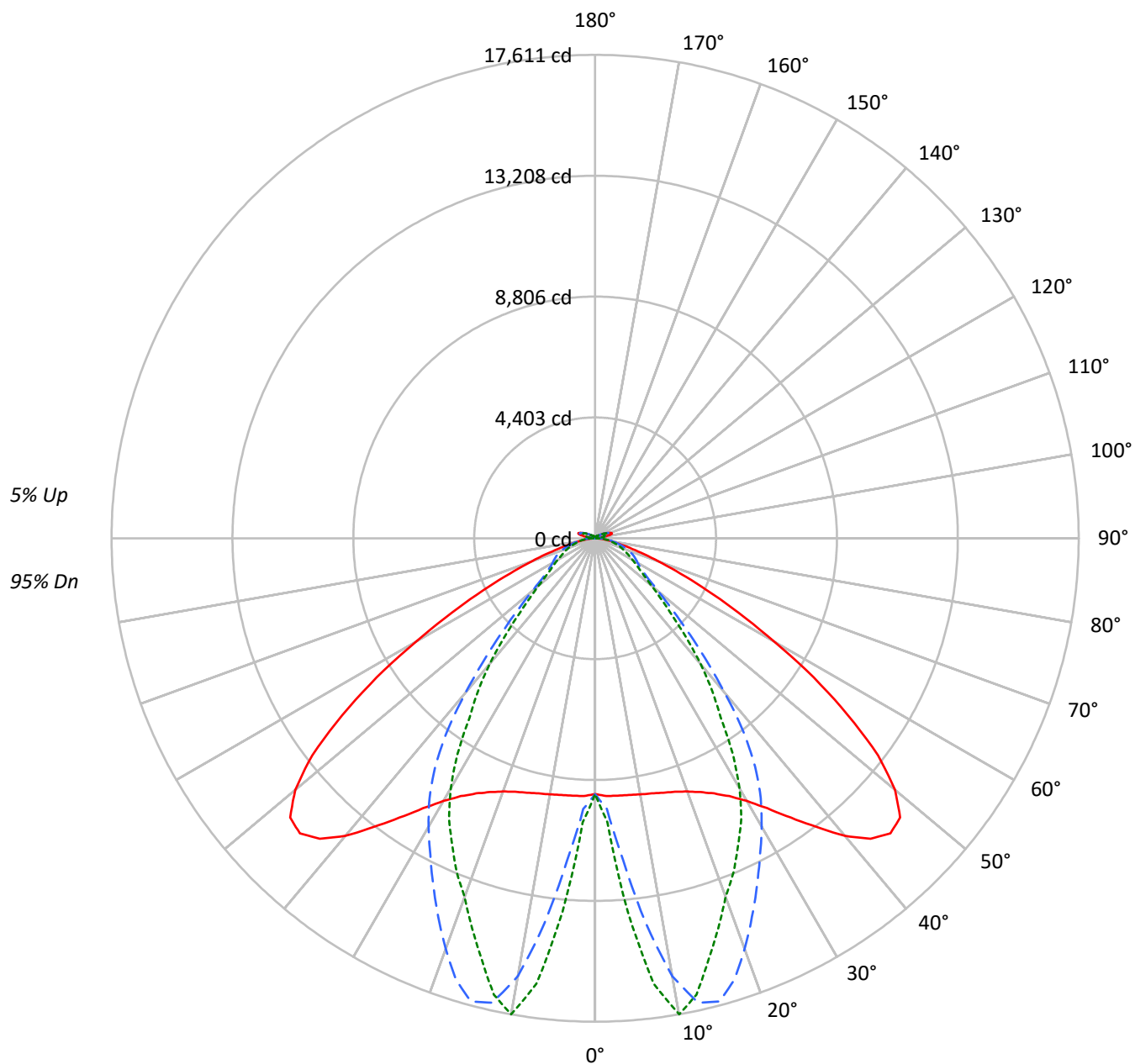
Lumens per Lamp: N/A
Luminaire Lumens: 31425.2 lumens
Efficiency: N/A
Efficacy: 164.3 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 191.3
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

TEST NUMBER: P827031

CATALOG NUMBER: OHB-30SE-A-UNV-L840-CD-UPL15

Luminous Intensity Polar Plot





TEST NUMBER: P827031

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	118	118	118	118	115	115	115	115	108	108	108		103	103	103		98
1	109	105	102	99	106	103	100	97	98	95	93		93	91	89		89
2	101	94	88	84	98	92	87	82	88	83	80		84	80	77		80
3	94	85	78	72	91	83	76	71	79	74	69		76	71	68		73
4	87	76	69	63	84	75	68	62	72	66	61		69	64	60		66
5	81	69	61	56	78	68	61	55	65	59	54		63	57	53		61
6	75	63	55	49	73	62	54	49	60	53	48		58	52	48		56
7	70	58	50	44	68	57	49	44	55	48	43		53	47	43		51
8	65	53	45	40	64	52	45	40	51	44	39		49	43	39		48
9	61	49	42	37	60	48	41	36	47	40	36		46	40	36		44
10	58	46	38	33	56	45	38	33	44	37	33		42	37	33		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31132	31132	31132
5°	31291	39055	45469
10°	31569	53706	58843
15°	32322	58353	53805
20°	33658	54000	47899
25°	36113	48429	43635
30°	40268	43479	38631
35°	47340	37935	30637
40°	56922	28789	24254
45°	65293	19537	17158
50°	66194	13341	12602
55°	57297	10444	10208
60°	42800	9710	9088
65°	29336	9661	8491
70°	18757	9217	8069
75°	11279	8400	7504
80°	6637	7204	7378
85°	3194	5918	6171



TEST NUMBER: P827031

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1216.7	3.9
10°-20°	4294.2	13.7
20°-30°	6327.8	20.1
30°-40°	6649.5	21.2
40°-50°	5088.1	16.2
50°-60°	3072.4	9.8
60°-70°	1874.9	6.0
70°-80°	1023.3	3.3
80°-90°	363.0	1.2
90°-100°	145.6	0.5
100°-110°	504.6	1.6
110°-120°	433.6	1.4
120°-130°	208.1	0.7
130°-140°	104.0	0.3
140°-150°	60.4	0.2
150°-160°	35.2	0.1
160°-170°	18.3	0.1
170°-180°	5.6	0.0
0°-30°	11838.6	37.7
0°-40°	18488.1	58.8
0°-60°	26648.6	84.8
0°-90°	29909.8	95.2
90°-120°	1083.8	3.4
90°-150°	1456.3	4.6
90°-180°	1515.0	4.8
0°-180°	31425.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9320	9320	9320	9320	9320	
5°	9413	10099	11781	13154	13662	900
15°	9596	14947	17468	16301	15918	2729
25°	10255	17347	13946	12626	12314	4793
35°	12422	13892	10160	8461	7966	7880
45°	15203	7927	4680	4118	3945	11487
55°	11243	2688	2130	1975	1969	9935
65°	4508	1702	1567	1341	1273	4619
75°	1200	1058	971	801	768	1381
85°	179	328	387	352	320	221
90°	3	22	29	38	43	12
95°	28	72	107	142	165	100
105°	633	624	532	376	345	599
115°	436	436	440	438	429	440
125°	211	223	229	227	226	199
135°	125	129	132	134	135	99
145°	91	93	95	97	97	58
155°	73	74	76	76	77	34
165°	63	63	64	64	64	18
175°	57	57	57	58	58	6
180°	57	57	57	57	57	



TEST NUMBER: P827031

CATALOG NUMBER: OHB-30SE-A-UNV-L840-CD-UPL15

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9319.5	9319.5	9319.5	9319.5	9319.5
2.5°	9395.9	9491.8	9869.8	10262.3	10357.8
5°	9413.0	10098.8	11780.9	13154.4	13662.0
7.5°	9433.0	11082.3	14148.7	15830.4	16368.7
10°	9471.0	12326.0	16200.5	17407.8	17611.2
12.5°	9518.1	13643.6	17329.4	17285.5	17028.9
15°	9596.5	14946.8	17468.5	16300.8	15917.5
17.5°	9678.8	16049.4	16861.9	15228.9	14895.2
20°	9812.7	16867.9	15918.3	14276.2	13897.0
22.5°	10005.7	17317.8	14928.8	13414.6	13167.2
25°	10254.7	17347.0	13946.1	12626.1	12314.4
27.5°	10588.4	16944.6	13004.2	11853.6	11524.3
30°	11042.4	16174.1	12129.0	10922.1	10513.6
32.5°	11659.0	15065.1	11226.6	9797.5	9339.5
35°	12421.5	13891.8	10160.0	8461.1	7966.4
37.5°	13253.5	12588.9	8865.5	7277.8	6989.6
40°	14148.7	11246.6	7331.3	6170.4	5964.2
42.5°	14847.3	9787.1	5906.2	5127.7	4908.3
45°	15203.4	7926.8	4680.1	4118.3	3945.2
47.5°	15064.7	6153.2	3710.2	3272.2	3220.3
50°	14255.4	4543.5	2970.1	2695.5	2674.0
52.5°	12990.2	3386.5	2453.4	2283.5	2246.4
55°	11243.4	2688.0	2130.5	1974.6	1968.6
57.5°	9439.8	2283.5	1933.8	1813.2	1771.2
60°	7516.0	2036.1	1784.8	1648.5	1563.4
62.5°	5891.4	1863.1	1675.3	1490.2	1410.7
65°	4507.5	1701.7	1567.4	1341.2	1272.8
67.5°	3360.1	1547.8	1435.5	1184.5	1144.6
70°	2448.2	1389.9	1285.2	1053.4	1021.9
72.5°	1744.8	1232.5	1135.0	930.4	895.6
75°	1200.1	1058.2	970.7	800.9	768.5
77.5°	809.7	880.4	808.9	683.8	670.2
80°	540.7	698.2	654.2	579.5	571.1
82.5°	328.1	506.7	516.3	471.2	448.4
85°	178.6	328.1	386.8	352.5	319.7
87.5°	69.9	181.8	266.6	239.4	225.4
90°	3.0	22.0	29.0	38.0	43.0
92.5°	10.0	28.0	46.0	64.0	74.0
95°	28.0	72.0	107.0	142.0	165.0
97.5°	166.0	187.0	204.0	235.0	253.0
100°	337.0	364.0	299.0	314.0	321.0
102.5°	542.0	524.0	387.0	348.0	342.0
105°	633.0	624.0	532.0	376.0	345.0



TEST NUMBER: P827031

CATALOG NUMBER: OHB-30SE-A-UNV-L840-CD-UPL15

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	509.0	516.0	507.0	489.0	471.0
115°	436.0	436.0	440.0	438.0	429.0
117.5°	374.0	372.0	376.0	374.0	372.0
120°	312.0	316.0	317.0	315.0	314.0
122.5°	258.0	266.0	271.0	268.0	267.0
125°	211.0	223.0	229.0	227.0	226.0
127.5°	180.0	187.0	195.0	195.0	193.0
130°	156.0	161.0	167.0	168.0	168.0
132.5°	139.0	143.0	148.0	149.0	150.0
135°	125.0	129.0	132.0	134.0	135.0
137.5°	115.0	117.0	121.0	122.0	123.0
140°	105.0	108.0	111.0	112.0	113.0
142.5°	98.0	100.0	102.0	104.0	104.0
145°	91.0	93.0	95.0	97.0	97.0
147.5°	86.0	88.0	90.0	90.0	91.0
150°	81.0	83.0	84.0	85.0	85.0
152.5°	77.0	78.0	80.0	80.0	81.0
155°	73.0	74.0	76.0	76.0	77.0
157.5°	70.0	71.0	72.0	73.0	73.0
160°	67.0	68.0	69.0	69.0	70.0
162.5°	65.0	66.0	66.0	67.0	67.0
165°	63.0	63.0	64.0	64.0	64.0
167.5°	61.0	61.0	62.0	62.0	63.0
170°	59.0	60.0	60.0	60.0	61.0
172.5°	58.0	58.0	59.0	59.0	59.0
175°	57.0	57.0	57.0	58.0	58.0
177.5°	56.0	57.0	57.0	57.0	57.0
180°	57.0	57.0	57.0	57.0	57.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	633.0	634.0	587.0	452.0	379.0
110°	584.0	589.0	563.0	512.0	450.0



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

Report Prepared for

Cooper Lighting Solutions

METALUX

Report Number: SP1-2304-001-1

Test Date: 05/31/2023

Luminaire Tested: OHB-15SE-N-UNV-L840

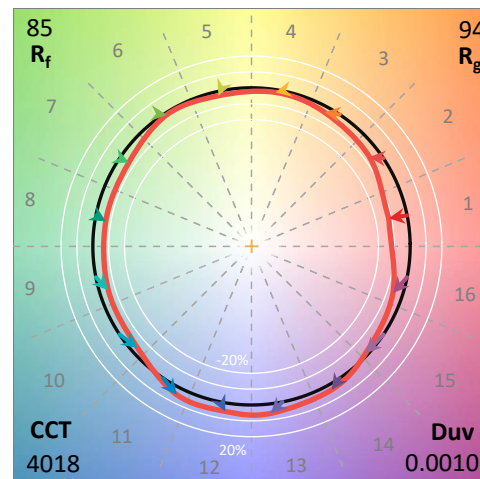
Data in this report applies to families of products including OHB-15SE-N-UNV-L840.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2304-001-1
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 05/31/2023
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: METALUX
 Catalog Number: **OHB-15SE-N-UNV-L840**
 Description: 15SE OHB WITH APT LEDS, NARROW LENS, 80CRI 4000K

Spectral Parameters

CCT (K):	4018	CRI (Ra):	84.0		
CIE u':	0.2242	R1:	82.5	R9:	11.5
CIE v':	0.5025	R2:	91.6	R10:	79.8
Duv:	0.0010	R3:	96.1	R11:	80.5
CIE x:	0.3803	R4:	81.4	R12:	64.0
CIE y:	0.3788	R5:	82.4	R13:	85.1
CIE z:	0.2410	R6:	88.0	R14:	98.4
Peak Wavelength (nm):	454	R7:	85.5		
Dominant Wavelength (nm):	578	R8:	64.7		
Purity:	27.9				
Rf:	84.5				
Rg:	93.7				



Test Conditions

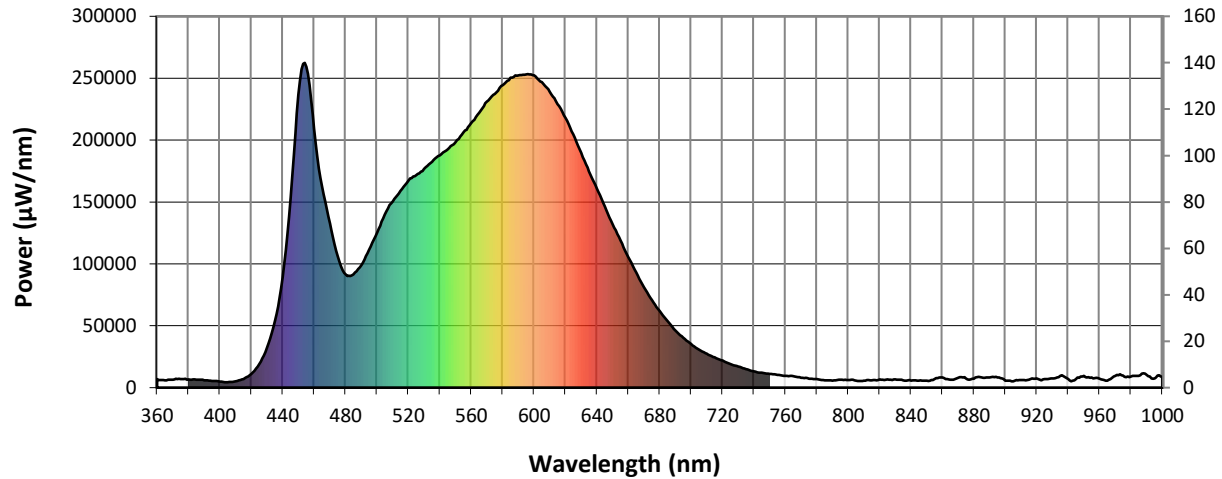
Stabilization Time: 23M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.7/44%
 Sphere Temperature (°C): 25.3

REPORT NUMBER: SP1-2304-001-1

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	2/9/2023	8/9/2023
Power Meter	XITRON 2801 IN0071	11/29/2022	11/29/2023
AC Power Source	CHROMA 61603 IN0063	11/28/2022	11/28/2023
DC Power Source	AGILENT E3634A IN0208	11/28/2022	11/28/2023
Sphere Thermometer	ONSET IN0085	11/28/2022	11/28/2023
Room Thermometer	ONSET IN0046	11/28/2022	11/28/2023

REPORT NUMBER: SP1-2304-001-1

Photopic Flux vs. Wavelength

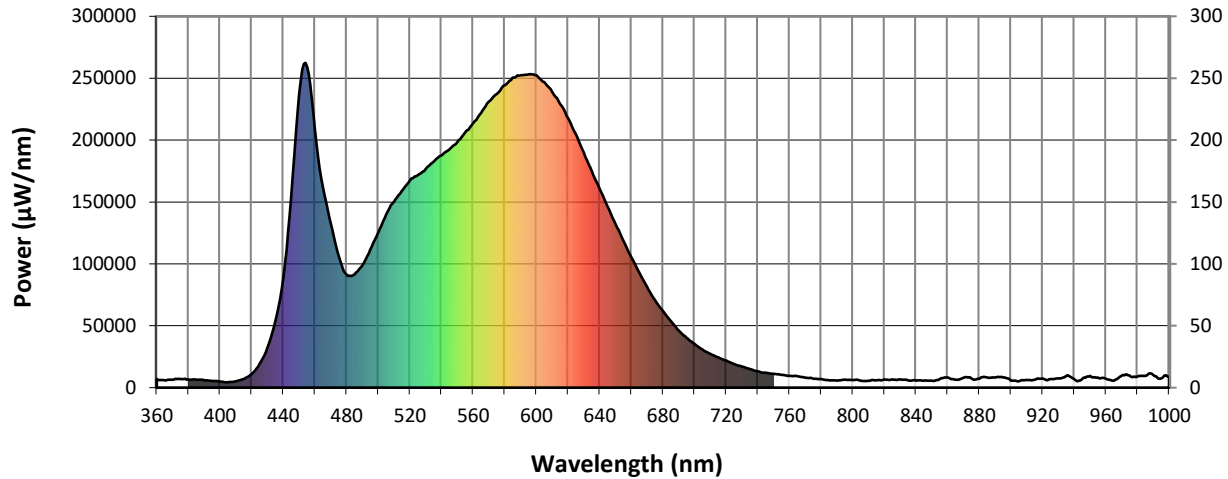


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λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)
360	6853	NR	490	98921	NR	620	217813	NR	750	11077	NR	880	7212	NR
365	5941	NR	495	111249	NR	625	204757	NR	755	10374	NR	885	8336	NR
370	6345	NR	500	125186	NR	630	189812	NR	760	9527	NR	890	8299	NR
375	7044	NR	505	139782	NR	635	174714	NR	765	9227	NR	895	8295	NR
380	6587	NR	510	150374	NR	640	160641	NR	770	8071	NR	900	5725	NR
385	6443	NR	515	158837	NR	645	146146	NR	775	7303	NR	905	5085	NR
390	5977	NR	520	167163	NR	650	132087	NR	780	6839	NR	910	6133	NR
395	5473	NR	525	171514	NR	655	118817	NR	785	5988	NR	915	6429	NR
400	4874	NR	530	176783	NR	660	105411	NR	790	5761	NR	920	7354	NR
405	4470	NR	535	182412	NR	665	92911	NR	795	6396	NR	925	6889	NR
410	5232	NR	540	187578	NR	670	81240	NR	800	6049	NR	930	7465	NR
415	7030	NR	545	192635	NR	675	70762	NR	805	5748	NR	935	9430	NR
420	11074	NR	550	198282	NR	680	61913	NR	810	5571	NR	940	6867	NR
425	19121	NR	555	206255	NR	685	53742	NR	815	5977	NR	945	7026	NR
430	32148	NR	560	213621	NR	690	46348	NR	820	6580	NR	950	9476	NR
435	54073	NR	565	222021	NR	695	40313	NR	825	6610	NR	955	8237	NR
440	89242	NR	570	230974	NR	700	35240	NR	830	6652	NR	960	7127	NR
445	153497	NR	575	237268	NR	705	30635	NR	835	5919	NR	965	5614	NR
450	236793	NR	580	244317	NR	710	27359	NR	840	5707	NR	970	9396	NR
455	259282	NR	585	250340	NR	715	24401	NR	845	5548	NR	975	9700	NR
460	209272	NR	590	252316	NR	720	21810	NR	850	5560	NR	980	8916	NR
465	162456	NR	595	253019	NR	725	19005	NR	855	6972	NR	985	9548	NR
470	132627	NR	600	252244	NR	730	17009	NR	860	8311	NR	990	10271	NR
475	106283	NR	605	246798	NR	735	14940	NR	865	6330	NR	995	7323	NR
480	91347	NR	610	238764	NR	740	13159	NR	870	8019	NR	1000	8719	NR
485	91575	NR	615	229100	NR	745	12000	NR	875	7419	NR			

REPORT NUMBER: SP1-2304-001-1

Scotopic Flux vs. Wavelength



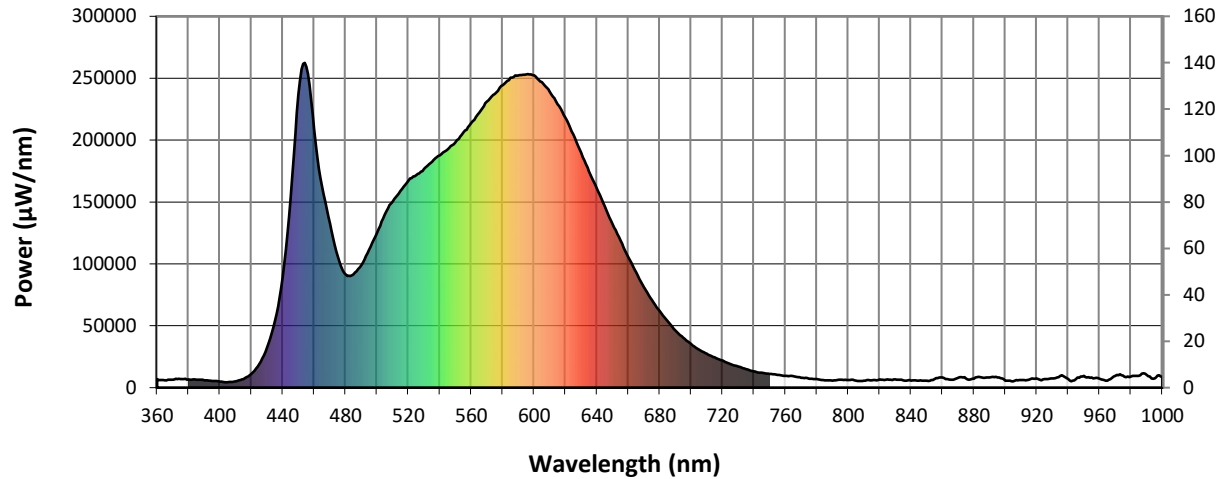
Scotopic Lumens: 25258.1

S/P: 1.73

λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)
360	6853	NR	490	98921	NR	620	217813	NR	750	11077	NR	880	7212	NR
365	5941	NR	495	111249	NR	625	204757	NR	755	10374	NR	885	8336	NR
370	6345	NR	500	125186	NR	630	189812	NR	760	9527	NR	890	8299	NR
375	7044	NR	505	139782	NR	635	174714	NR	765	9227	NR	895	8295	NR
380	6587	NR	510	150374	NR	640	160641	NR	770	8071	NR	900	5725	NR
385	6443	NR	515	158837	NR	645	146146	NR	775	7303	NR	905	5085	NR
390	5977	NR	520	167163	NR	650	132087	NR	780	6839	NR	910	6133	NR
395	5473	NR	525	171514	NR	655	118817	NR	785	5988	NR	915	6429	NR
400	4874	NR	530	176783	NR	660	105411	NR	790	5761	NR	920	7354	NR
405	4470	NR	535	182412	NR	665	92911	NR	795	6396	NR	925	6889	NR
410	5232	NR	540	187578	NR	670	81240	NR	800	6049	NR	930	7465	NR
415	7030	NR	545	192635	NR	675	70762	NR	805	5748	NR	935	9430	NR
420	11074	NR	550	198282	NR	680	61913	NR	810	5571	NR	940	6867	NR
425	19121	NR	555	206255	NR	685	53742	NR	815	5977	NR	945	7026	NR
430	32148	NR	560	213621	NR	690	46348	NR	820	6580	NR	950	9476	NR
435	54073	NR	565	222021	NR	695	40313	NR	825	6610	NR	955	8237	NR
440	89242	NR	570	230974	NR	700	35240	NR	830	6652	NR	960	7127	NR
445	153497	NR	575	237268	NR	705	30635	NR	835	5919	NR	965	5614	NR
450	236793	NR	580	244317	NR	710	27359	NR	840	5707	NR	970	9396	NR
455	259282	NR	585	250340	NR	715	24401	NR	845	5548	NR	975	9700	NR
460	209272	NR	590	252316	NR	720	21810	NR	850	5560	NR	980	8916	NR
465	162456	NR	595	253019	NR	725	19005	NR	855	6972	NR	985	9548	NR
470	132627	NR	600	252244	NR	730	17009	NR	860	8311	NR	990	10271	NR
475	106283	NR	605	246798	NR	735	14940	NR	865	6330	NR	995	7323	NR
480	91347	NR	610	238764	NR	740	13159	NR	870	8019	NR	1000	8719	NR
485	91575	NR	615	229100	NR	745	12000	NR	875	7419	NR			

REPORT NUMBER: SP1-2304-001-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: 10357.9 M/P: 0.71

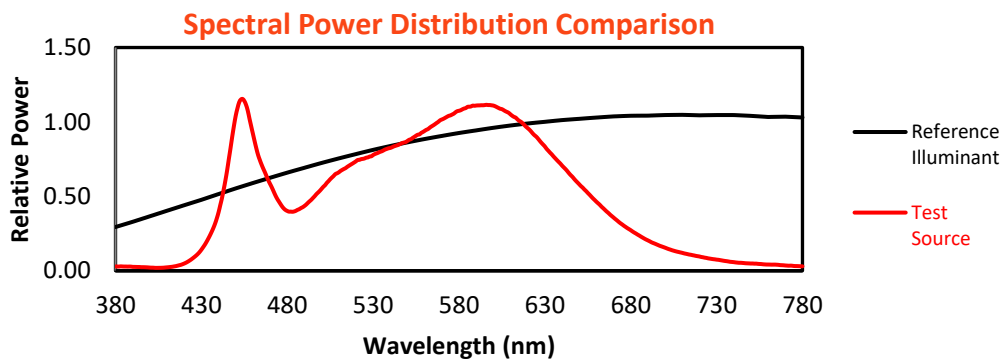
λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)	λ (nm)	Power (μW/nm)	Lumens (φ/nm)
360	6853	NR	490	98921	NR	620	217813	NR	750	11077	NR	880	7212	NR
365	5941	NR	495	111249	NR	625	204757	NR	755	10374	NR	885	8336	NR
370	6345	NR	500	125186	NR	630	189812	NR	760	9527	NR	890	8299	NR
375	7044	NR	505	139782	NR	635	174714	NR	765	9227	NR	895	8295	NR
380	6587	NR	510	150374	NR	640	160641	NR	770	8071	NR	900	5725	NR
385	6443	NR	515	158837	NR	645	146146	NR	775	7303	NR	905	5085	NR
390	5977	NR	520	167163	NR	650	132087	NR	780	6839	NR	910	6133	NR
395	5473	NR	525	171514	NR	655	118817	NR	785	5988	NR	915	6429	NR
400	4874	NR	530	176783	NR	660	105411	NR	790	5761	NR	920	7354	NR
405	4470	NR	535	182412	NR	665	92911	NR	795	6396	NR	925	6889	NR
410	5232	NR	540	187578	NR	670	81240	NR	800	6049	NR	930	7465	NR
415	7030	NR	545	192635	NR	675	70762	NR	805	5748	NR	935	9430	NR
420	11074	NR	550	198282	NR	680	61913	NR	810	5571	NR	940	6867	NR
425	19121	NR	555	206255	NR	685	53742	NR	815	5977	NR	945	7026	NR
430	32148	NR	560	213621	NR	690	46348	NR	820	6580	NR	950	9476	NR
435	54073	NR	565	222021	NR	695	40313	NR	825	6610	NR	955	8237	NR
440	89242	NR	570	230974	NR	700	35240	NR	830	6652	NR	960	7127	NR
445	153497	NR	575	237268	NR	705	30635	NR	835	5919	NR	965	5614	NR
450	236793	NR	580	244317	NR	710	27359	NR	840	5707	NR	970	9396	NR
455	259282	NR	585	250340	NR	715	24401	NR	845	5548	NR	975	9700	NR
460	209272	NR	590	252316	NR	720	21810	NR	850	5560	NR	980	8916	NR
465	162456	NR	595	253019	NR	725	19005	NR	855	6972	NR	985	9548	NR
470	132627	NR	600	252244	NR	730	17009	NR	860	8311	NR	990	10271	NR
475	106283	NR	605	246798	NR	735	14940	NR	865	6330	NR	995	7323	NR
480	91347	NR	610	238764	NR	740	13159	NR	870	8019	NR	1000	8719	NR
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REPORT NUMBER: SP1-2304-001-1

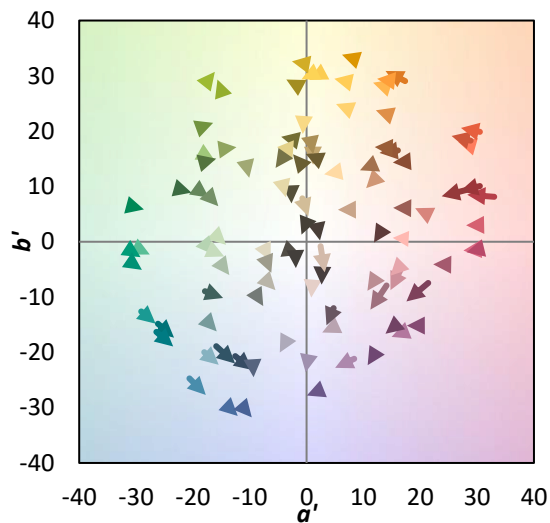
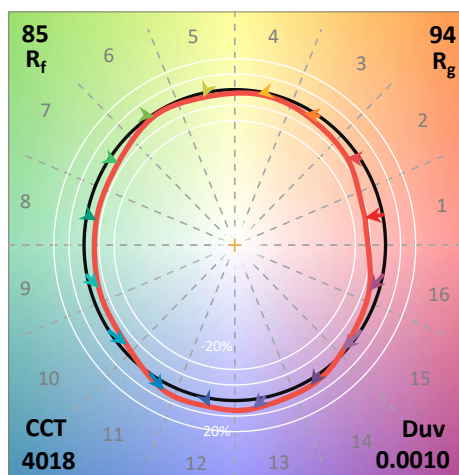
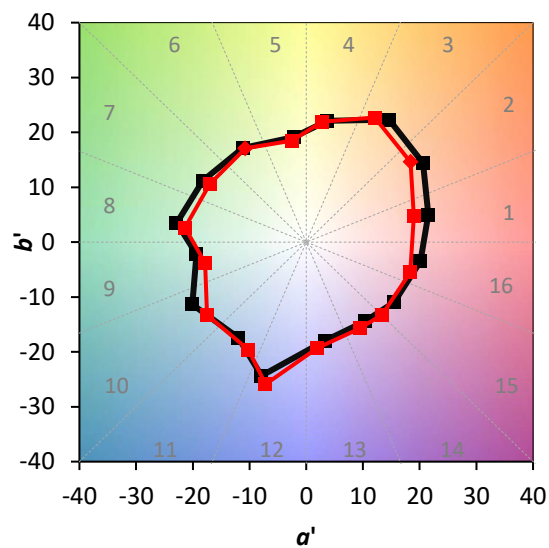
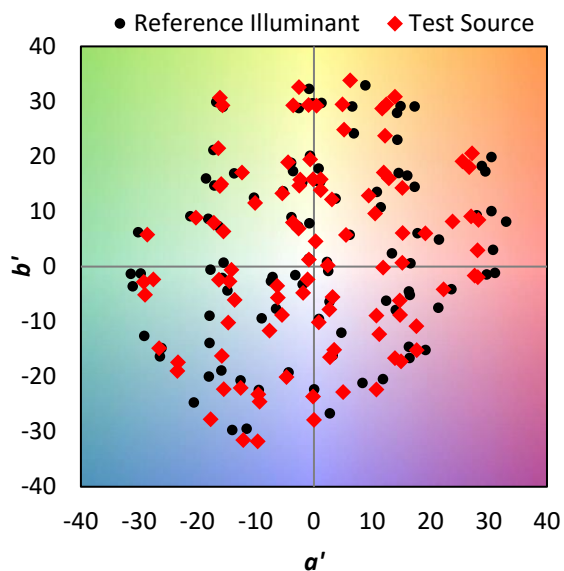
TM-30-18

Summary

$R_f = 84.5$
 $R_g = 93.7$
 CIE $R_a = 84.0$
 $R_9 = 11.5$



Color Vector Graphics

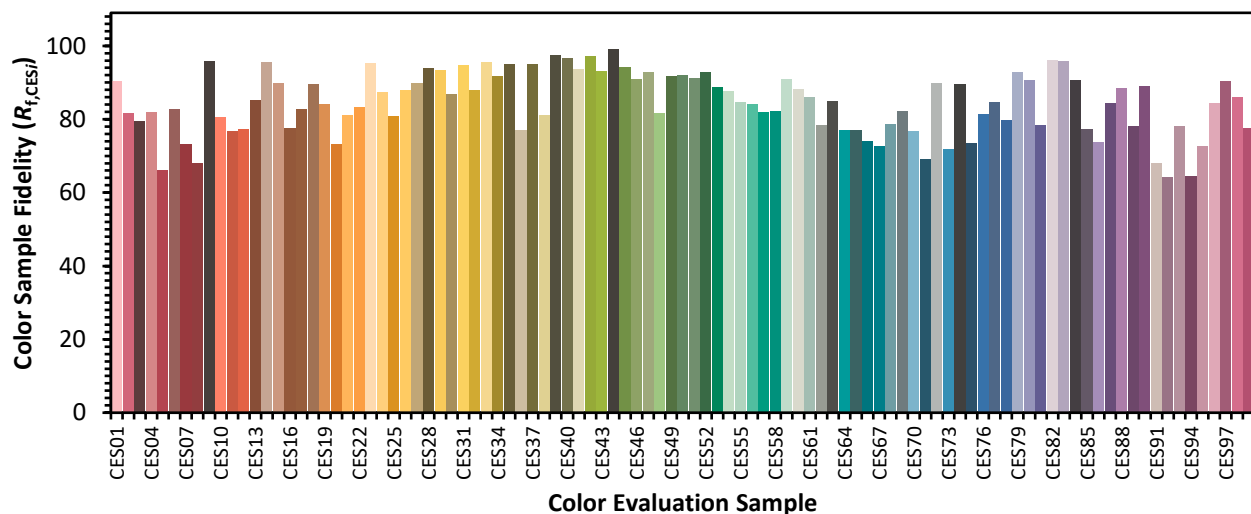


REPORT NUMBER: SP1-2304-001-1

TM-30-18

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

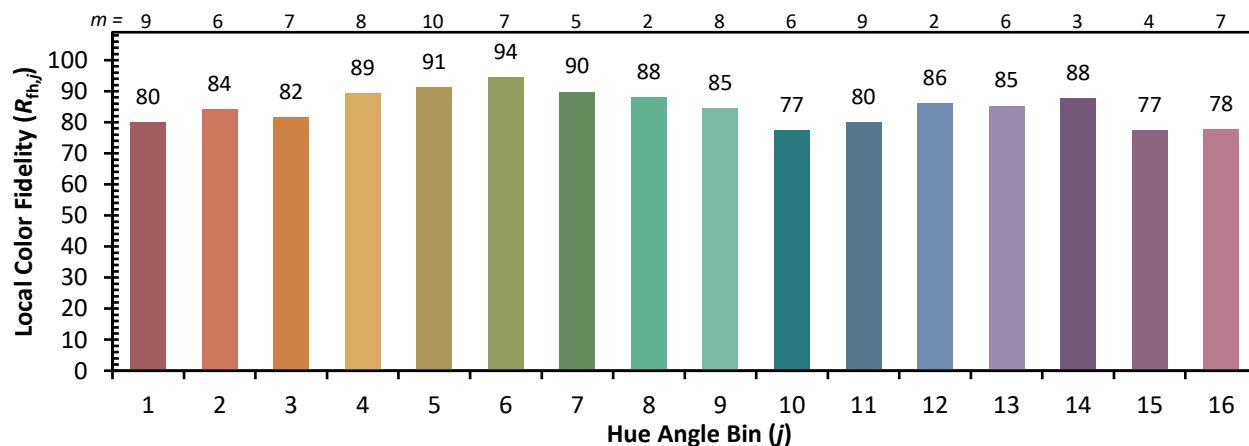
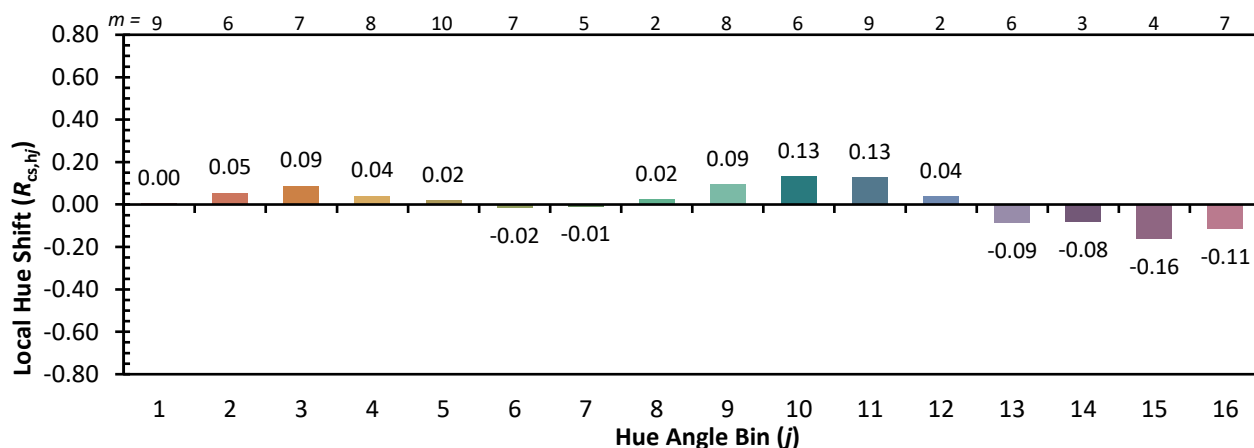
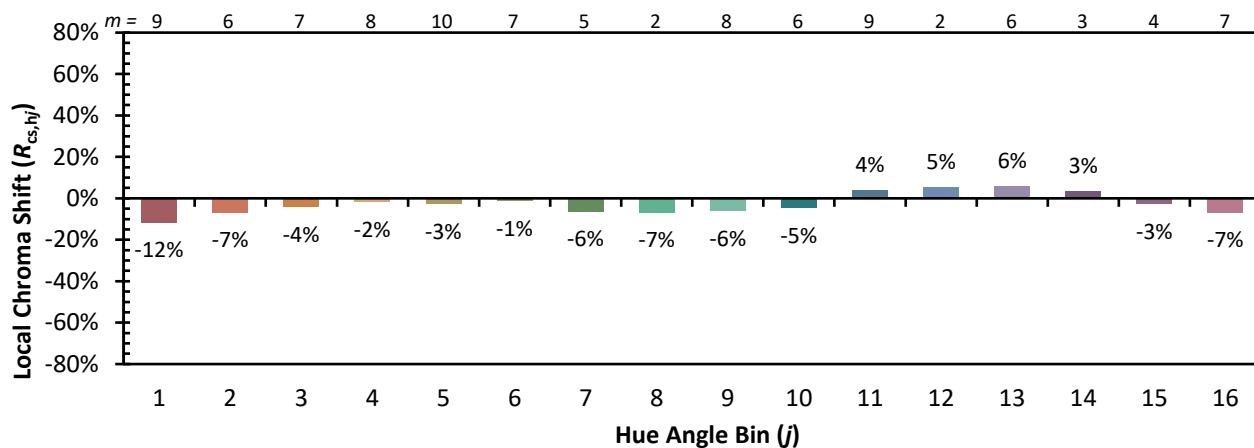
CES01 = 85	CES26 = 88	CES51 = 91	CES76 = 81
CES02 = 61	CES27 = 90	CES52 = 93	CES77 = 85
CES03 = 31	CES28 = 94	CES53 = 89	CES78 = 80
CES04 = 69	CES29 = 93	CES54 = 88	CES79 = 93
CES05 = 48	CES30 = 87	CES55 = 85	CES80 = 91
CES06 = 50	CES31 = 95	CES56 = 84	CES81 = 78
CES07 = 41	CES32 = 88	CES57 = 82	CES82 = 96
CES08 = 40	CES33 = 96	CES58 = 82	CES83 = 96
CES09 = 29	CES34 = 92	CES59 = 91	CES84 = 91
CES10 = 74	CES35 = 95	CES60 = 88	CES85 = 77
CES11 = 57	CES36 = 77	CES61 = 86	CES86 = 74
CES12 = 63	CES37 = 95	CES62 = 78	CES87 = 84
CES13 = 42	CES38 = 81	CES63 = 85	CES88 = 88
CES14 = 74	CES39 = 98	CES64 = 77	CES89 = 78
CES15 = 71	CES40 = 97	CES65 = 77	CES90 = 89
CES16 = 47	CES41 = 94	CES66 = 74	CES91 = 68
CES17 = 49	CES42 = 97	CES67 = 73	CES92 = 64
CES18 = 56	CES43 = 93	CES68 = 79	CES93 = 78
CES19 = 71	CES44 = 99	CES69 = 82	CES94 = 65
CES20 = 65	CES45 = 94	CES70 = 77	CES95 = 73
CES21 = 86	CES46 = 91	CES71 = 69	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 90	CES97 = 90
CES23 = 91	CES48 = 82	CES73 = 72	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 90	CES99 = 77
CES25 = 71	CES50 = 92	CES75 = 74	



REPORT NUMBER: SP1-2304-001-1

TM-30-18

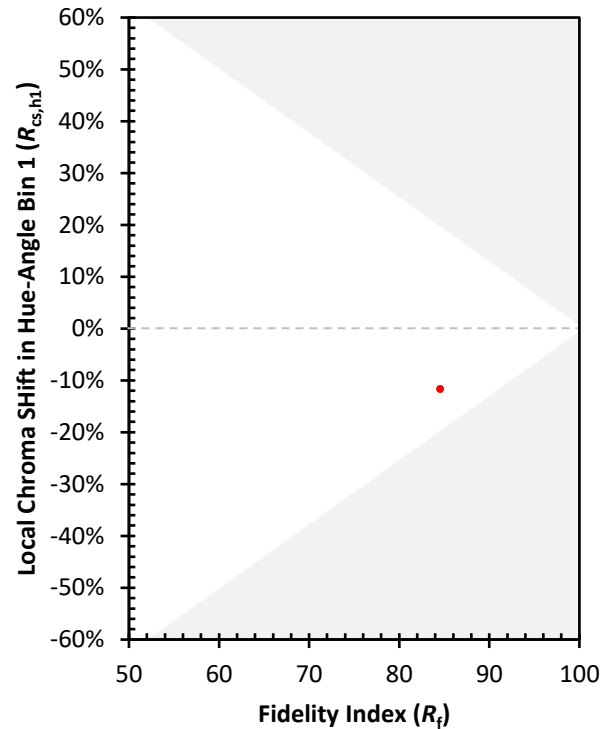
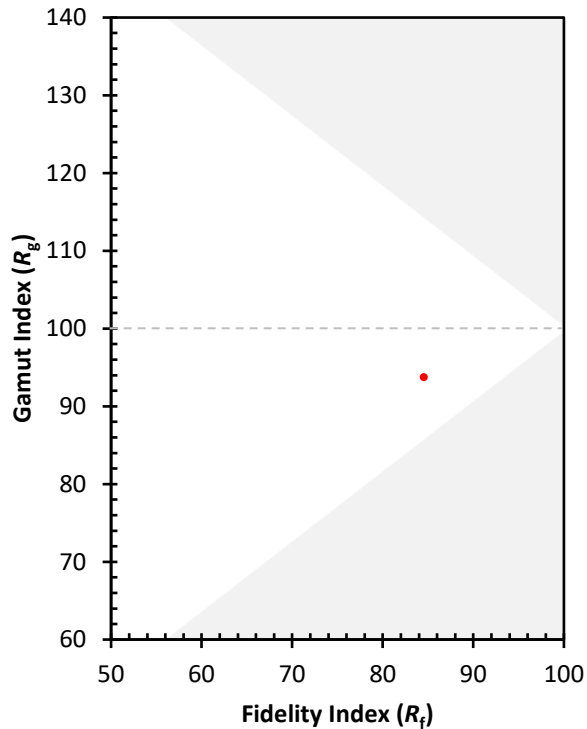
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2304-001-1

TM-30-18

Measure Comparisons



(END OF REPORT)