

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: CORELITE

Report Number: P1216358

Luminaire Tested: 24-ID2-100-DBR-L935-U

Issue Date: 12/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1216358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2508-510-10)
Test Lab: INNOVATION CENTER
Issue Date: 12/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24-ID2-100-DBR-L935-U
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DOUBLE BARREL REGRESSED
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

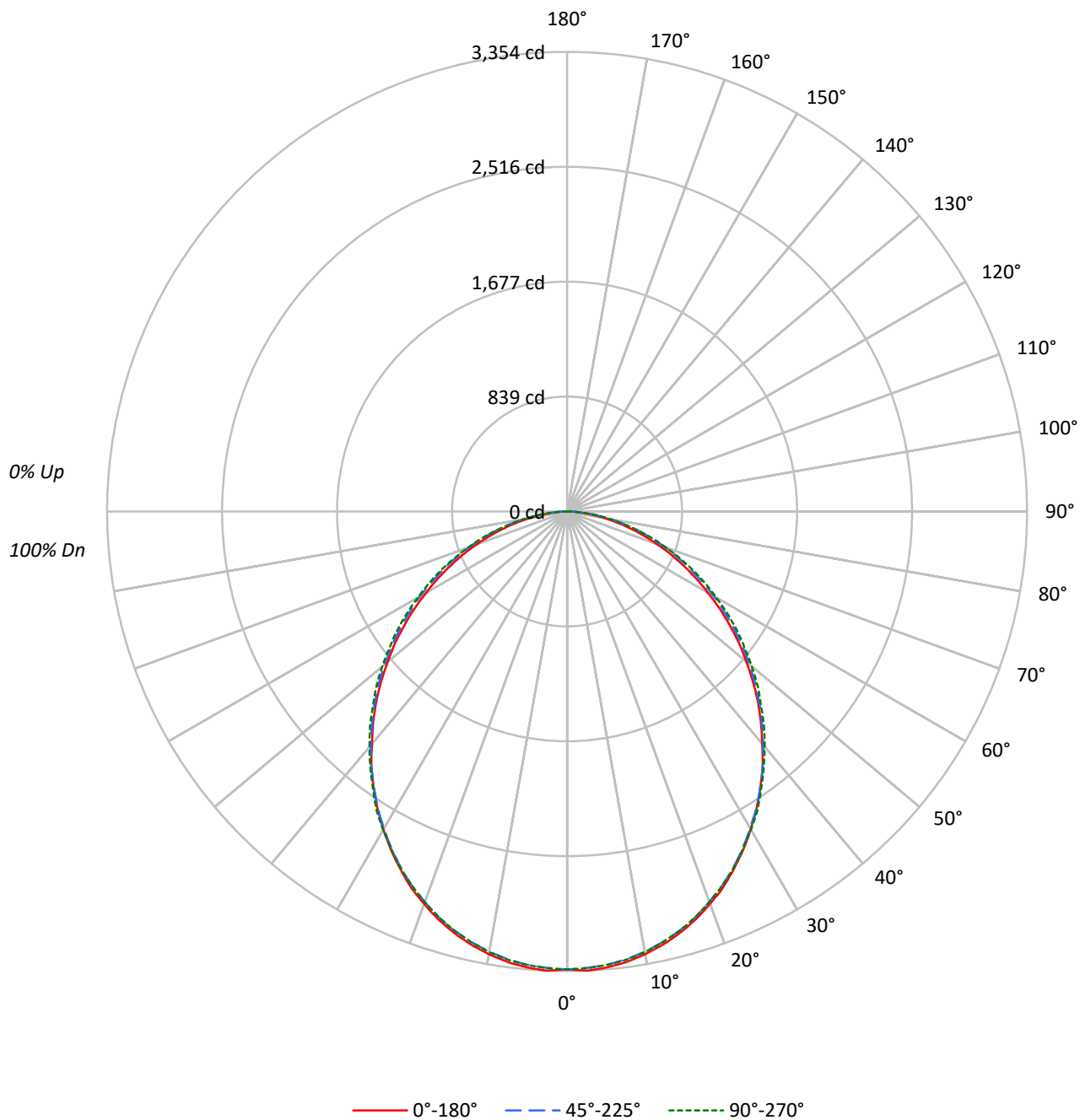
Lumens per Lamp: N/A
Luminaire Lumens: 8593.3 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.8
Input Voltage (V): 120
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



TEST NUMBER: P1216358
CATALOG NUMBER: 24-ID2-100-DBR-L935-U

Luminous Intensity Polar Plot



TEST NUMBER: P1216358

CATALOG NUMBER: 24-ID2-100-DBR-L935-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		84
2	99	91	85	79	97	89	83	78	86	81	76		83	78	74		71
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		51
5	77	64	55	49	75	63	55	48	61	53	48		59	52	47		45
6	71	58	49	43	69	57	48	42	55	48	42		53	47	42		39
7	66	52	44	38	64	52	43	38	50	43	37		49	42	37		35
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		31
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4496	4496	4496
5°	4512	4486	4487
10°	4483	4457	4462
15°	4435	4412	4413
20°	4364	4341	4343
25°	4273	4259	4262
30°	4162	4149	4167
35°	4038	4032	4054
40°	3887	3910	3937
45°	3746	3773	3805
50°	3570	3628	3679
55°	3398	3478	3548
60°	3190	3327	3381
65°	2985	3140	3230
70°	2747	2966	3017
75°	2477	2760	2785
80°	2103	2462	2489
85°	1610	2032	2086

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 3805 cd/sqm

TEST NUMBER: P1216358
 CATALOG NUMBER: 24-ID2-100-DBR-L935-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.4	3.7
10°-20°	893.1	10.4
20°-30°	1321.0	15.4
30°-40°	1537.5	17.9
40°-50°	1529.8	17.8
50°-60°	1323.8	15.4
60°-70°	973.5	11.3
70°-80°	549.9	6.4
80°-90°	149.2	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2529.5	29.4
0°-40°	4067.0	47.3
0°-60°	6920.7	80.5
0°-90°	8593.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8593.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3341	3341	3341	3341	3341	
5°	3340	3328	3321	3317	3322	317
15°	3184	3174	3167	3161	3168	897
25°	2878	2870	2868	2865	2871	1325
35°	2458	2454	2455	2466	2468	1536
45°	1969	1969	1983	2000	2000	1516
55°	1448	1456	1483	1503	1512	1295
65°	938	957	986	1005	1015	931
75°	476	503	531	535	536	505
85°	104	123	132	134	135	125
90°	0	0	0	0	0	

TEST NUMBER: P1216358

CATALOG NUMBER: 24-ID2-100-DBR-L935-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3341.4	3341.4	3341.4	3341.4	3341.4
2.5°	3354.5	3341.4	3334.3	3330.8	3335.5
5°	3340.3	3328.4	3321.3	3316.6	3322.5
7.5°	3316.6	3303.5	3296.4	3291.7	3300.0
10°	3281.0	3268.0	3262.0	3258.5	3265.6
12.5°	3237.1	3226.5	3219.4	3214.6	3219.4
15°	3183.8	3174.3	3167.2	3161.3	3168.4
17.5°	3121.0	3109.1	3106.7	3099.6	3105.6
20°	3047.5	3038.0	3032.1	3028.5	3033.3
22.5°	2971.6	2958.6	2955.0	2951.5	2956.2
25°	2878.0	2869.7	2868.5	2864.9	2870.9
27.5°	2783.2	2778.4	2772.5	2774.9	2776.0
30°	2678.8	2672.9	2670.5	2675.3	2682.4
32.5°	2571.0	2566.2	2567.4	2572.2	2585.2
35°	2458.4	2453.6	2454.8	2465.5	2467.9
37.5°	2343.4	2335.1	2343.4	2350.5	2356.4
40°	2213.0	2214.2	2226.0	2235.5	2241.5
42.5°	2092.1	2092.1	2104.0	2118.2	2125.3
45°	1968.8	1968.8	1983.1	1999.7	1999.7
47.5°	1838.4	1836.1	1862.2	1879.9	1885.9
50°	1705.7	1710.4	1733.0	1750.7	1757.8
52.5°	1581.2	1583.6	1608.5	1627.5	1631.0
55°	1448.5	1455.6	1482.8	1503.0	1512.5
57.5°	1318.1	1329.9	1357.2	1382.1	1384.5
60°	1185.3	1204.3	1236.3	1249.3	1256.4
62.5°	1064.4	1083.4	1109.5	1130.8	1135.5
65°	937.6	956.6	986.2	1005.2	1014.6
67.5°	819.1	841.6	871.2	885.4	885.4
70°	698.2	723.1	753.9	765.7	766.9
72.5°	584.4	612.8	640.1	649.6	651.9
75°	476.5	502.6	531.0	534.6	535.8
77.5°	371.0	398.3	419.6	426.7	423.2
80°	271.4	298.7	317.7	322.4	321.2
82.5°	184.9	207.4	225.2	225.2	225.2
85°	104.3	123.3	131.6	133.9	135.1
87.5°	34.4	48.6	55.7	55.7	55.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1216358

CATALOG NUMBER: 24-ID2-100-DBR-L935-U

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	16.14	17.75	16.51	18.07	18.38	16.42	18.03	16.79	18.35	18.66
	3H	17.80	19.25	18.17	19.58	19.94	18.16	19.61	18.54	19.94	20.30
	4H	18.39	19.76	18.79	20.11	20.49	18.81	20.18	19.21	20.52	20.90
	6H	18.81	20.07	19.22	20.44	20.83	19.28	20.55	19.69	20.91	21.30
	8H	18.93	20.14	19.35	20.53	20.92	19.44	20.64	19.86	21.03	21.43
	12H	19.00	20.15	19.43	20.54	20.97	19.53	20.69	19.96	21.07	21.50
4H	2H	16.78	18.15	17.18	18.49	18.87	17.00	18.37	17.40	18.72	19.09
	3H	18.66	19.81	19.07	20.20	20.60	18.97	20.11	19.38	20.51	20.91
	4H	19.39	20.42	19.82	20.84	21.27	19.75	20.78	20.18	21.20	21.63
	6H	19.93	20.83	20.38	21.27	21.73	20.35	21.26	20.81	21.70	22.15
	8H	20.09	20.94	20.55	21.38	21.84	20.55	21.40	21.02	21.84	22.31
	12H	20.20	20.96	20.68	21.43	21.90	20.70	21.45	21.18	21.93	22.40
8H	4H	19.72	20.56	20.18	21.01	21.47	20.04	20.88	20.50	21.32	21.79
	6H	20.38	21.08	20.88	21.57	22.05	20.76	21.47	21.26	21.95	22.43
	8H	20.62	21.25	21.13	21.75	22.24	21.04	21.67	21.55	22.17	22.66
	12H	20.79	21.35	21.30	21.84	22.40	21.25	21.81	21.76	22.30	22.86
12H	4H	19.76	20.51	20.24	20.99	21.46	20.06	20.82	20.54	21.30	21.77
	6H	20.45	21.08	20.96	21.58	22.07	20.81	21.44	21.32	21.95	22.44
	8H	20.74	21.30	21.25	21.79	22.35	21.14	21.70	21.65	22.19	22.75

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

Report Prepared for

Cooper Lighting Solutions

Corelite

Report Number: SP1-2506-458-10

Test Date: 08/26/2025

Luminaire Tested: 22ID2-55-CFR1-L935-U

Data in this report applies to families of products including 22ID2-55-CFR1-L935-U

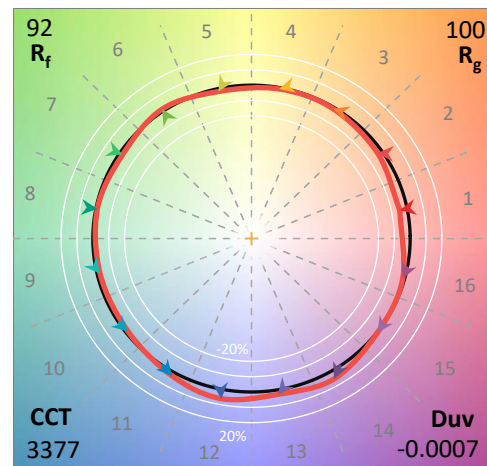
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-458-10
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/27/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Corelite
 Catalog Number: **22ID2-55-CFR1-L935-U**
 Description: 2X2 CGTX WITH INDEPTH FRAME AND CFR1 LENS - 5500 LUMEN 3500K 90CRI

Spectral Parameters

CCT (K): 3377
 CIE u' : 0.2392
 CIE v' : 0.5128
 Duv: -0.0007
 CIE x: 0.4116
 CIE y: 0.3922
 CIE z: 0.1962
 Peak Wavelength (nm): 618
 Dominant Wavelength (nm): 581
 Purity: 41.24368
 R_f: 91.8
 R_g: 99.6

CRI (Ra): 93.6
 R1: 94.1
 R2: 96.6
 R3: 97.5
 R4: 94.0
 R5: 93.6
 R6: 94.8
 R7: 93.4
 R8: 84.8
 R9: 64.2
 R10: 91.1
 R11: 94.7
 R12: 78.5
 R13: 95.0
 R14: 98.1
 R15: 91.0



Test Conditions

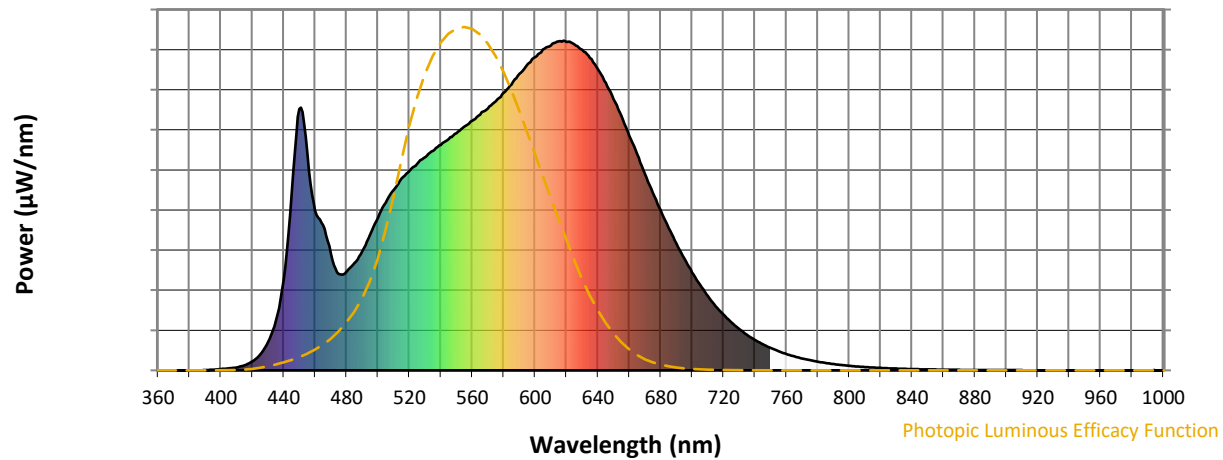
Stabilization Time: 32M
 Operation Time: 1H 32M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2506-458-10

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: SP1-2506-458-10

Photopic Flux vs. Wavelength

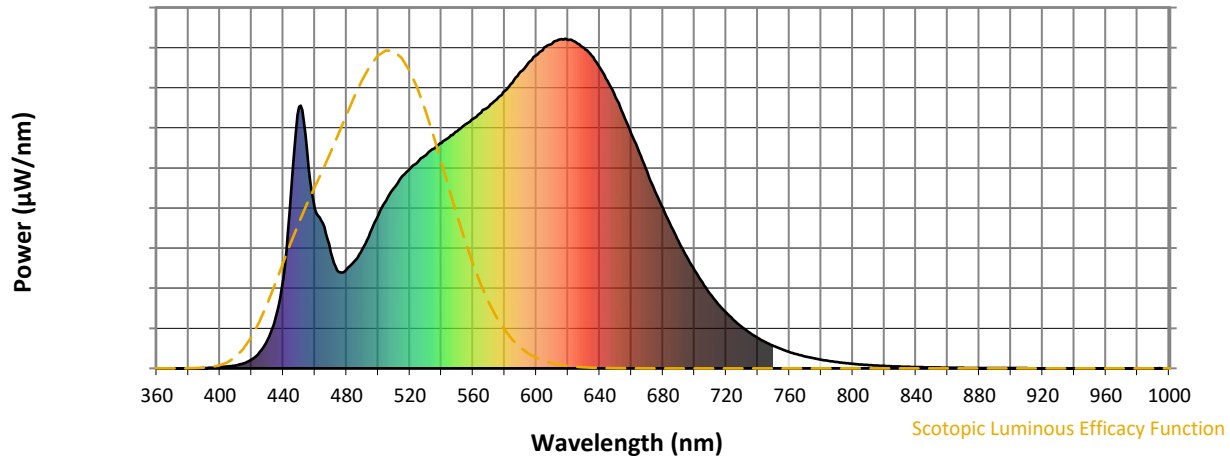


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	362	NR	620	996	NR	750	68	NR	880	1	NR
365	0	NR	495	412	NR	625	989	NR	755	58	NR	885	1	NR
370	0	NR	500	463	NR	630	973	NR	760	49	NR	890	1	NR
375	0	NR	505	509	NR	635	947	NR	765	42	NR	895	1	NR
380	0	NR	510	548	NR	640	914	NR	770	36	NR	900	1	NR
385	0	NR	515	582	NR	645	872	NR	775	31	NR	905	1	NR
390	1	NR	520	605	NR	650	822	NR	780	26	NR	910	1	NR
395	2	NR	525	626	NR	655	770	NR	785	22	NR	915	1	NR
400	4	NR	530	646	NR	660	712	NR	790	19	NR	920	0	NR
405	6	NR	535	666	NR	665	656	NR	795	16	NR	925	0	NR
410	9	NR	540	683	NR	670	596	NR	800	14	NR	930	0	NR
415	15	NR	545	702	NR	675	538	NR	805	12	NR	935	0	NR
420	27	NR	550	720	NR	680	486	NR	810	10	NR	940	0	NR
425	48	NR	555	740	NR	685	432	NR	815	9	NR	945	0	NR
430	85	NR	560	757	NR	690	385	NR	820	7	NR	950	0	NR
435	152	NR	565	776	NR	695	339	NR	825	6	NR	955	0	NR
440	274	NR	570	794	NR	700	297	NR	830	5	NR	960	0	NR
445	536	NR	575	816	NR	705	260	NR	835	5	NR	965	0	NR
450	793	NR	580	842	NR	710	225	NR	840	4	NR	970	0	NR
455	659	NR	585	867	NR	715	194	NR	845	3	NR	975	0	NR
460	484	NR	590	899	NR	720	169	NR	850	3	NR	980	0	NR
465	441	NR	595	927	NR	725	146	NR	855	2	NR	985	0	NR
470	353	NR	600	950	NR	730	125	NR	860	2	NR	990	0	NR
475	293	NR	605	974	NR	735	107	NR	865	2	NR	995	0	NR
480	300	NR	610	986	NR	740	92	NR	870	2	NR	1000	0	NR
485	325	NR	615	998	NR	745	79	NR	875	1	NR			

REPORT NUMBER: SP1-2506-458-10

Scotopic Flux vs. Wavelength



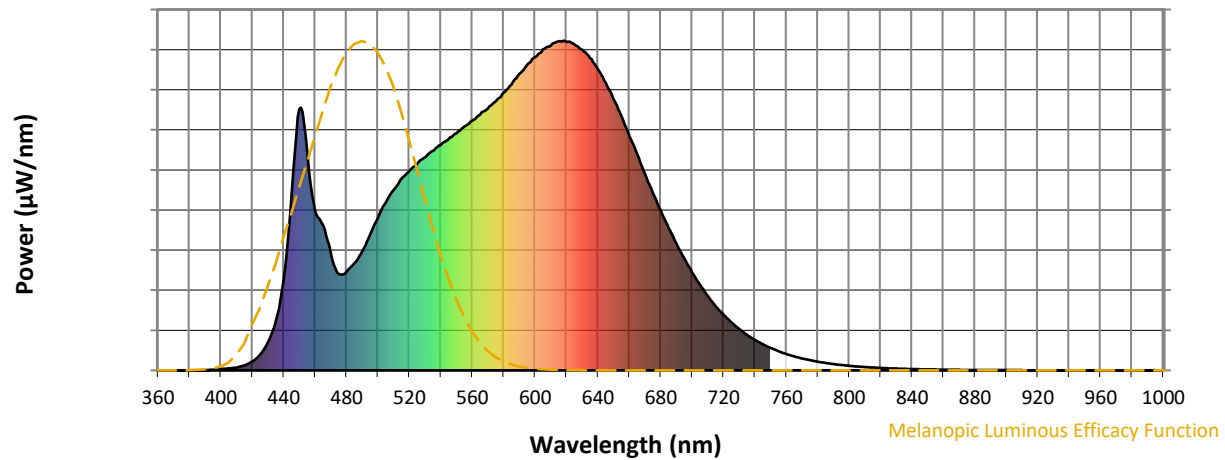
Scotopic Lumens: NR

S/P: 1.58

λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)
360	0	NR	490	362	NR	620	996	NR	750	68	NR	880	1	NR
365	0	NR	495	412	NR	625	989	NR	755	58	NR	885	1	NR
370	0	NR	500	463	NR	630	973	NR	760	49	NR	890	1	NR
375	0	NR	505	509	NR	635	947	NR	765	42	NR	895	1	NR
380	0	NR	510	548	NR	640	914	NR	770	36	NR	900	1	NR
385	0	NR	515	582	NR	645	872	NR	775	31	NR	905	1	NR
390	1	NR	520	605	NR	650	822	NR	780	26	NR	910	1	NR
395	2	NR	525	626	NR	655	770	NR	785	22	NR	915	1	NR
400	4	NR	530	646	NR	660	712	NR	790	19	NR	920	0	NR
405	6	NR	535	666	NR	665	656	NR	795	16	NR	925	0	NR
410	9	NR	540	683	NR	670	596	NR	800	14	NR	930	0	NR
415	15	NR	545	702	NR	675	538	NR	805	12	NR	935	0	NR
420	27	NR	550	720	NR	680	486	NR	810	10	NR	940	0	NR
425	48	NR	555	740	NR	685	432	NR	815	9	NR	945	0	NR
430	85	NR	560	757	NR	690	385	NR	820	7	NR	950	0	NR
435	152	NR	565	776	NR	695	339	NR	825	6	NR	955	0	NR
440	274	NR	570	794	NR	700	297	NR	830	5	NR	960	0	NR
445	536	NR	575	816	NR	705	260	NR	835	5	NR	965	0	NR
450	793	NR	580	842	NR	710	225	NR	840	4	NR	970	0	NR
455	659	NR	585	867	NR	715	194	NR	845	3	NR	975	0	NR
460	484	NR	590	899	NR	720	169	NR	850	3	NR	980	0	NR
465	441	NR	595	927	NR	725	146	NR	855	2	NR	985	0	NR
470	353	NR	600	950	NR	730	125	NR	860	2	NR	990	0	NR
475	293	NR	605	974	NR	735	107	NR	865	2	NR	995	0	NR
480	300	NR	610	986	NR	740	92	NR	870	2	NR	1000	0	NR
485	325	NR	615	998	NR	745	79	NR	875	1	NR			

REPORT NUMBER: SP1-2506-458-10

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.19

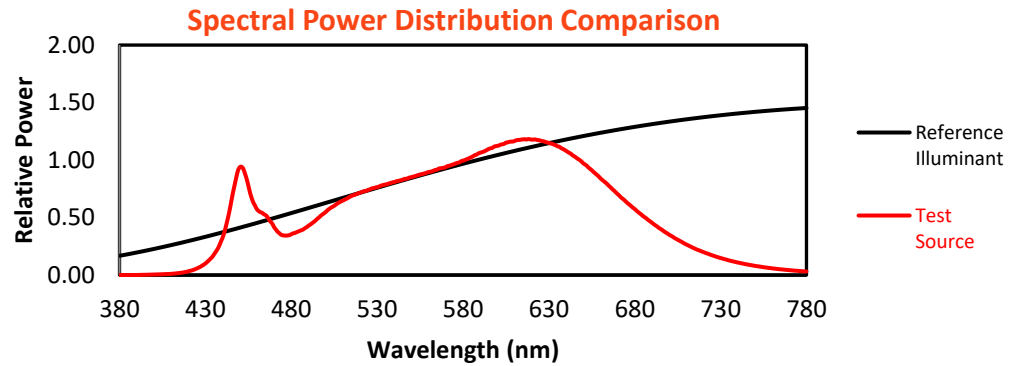
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	362	NR	620	996	NR	750	68	NR	880	1	NR
365	0	NR	495	412	NR	625	989	NR	755	58	NR	885	1	NR
370	0	NR	500	463	NR	630	973	NR	760	49	NR	890	1	NR
375	0	NR	505	509	NR	635	947	NR	765	42	NR	895	1	NR
380	0	NR	510	548	NR	640	914	NR	770	36	NR	900	1	NR
385	0	NR	515	582	NR	645	872	NR	775	31	NR	905	1	NR
390	1	NR	520	605	NR	650	822	NR	780	26	NR	910	1	NR
395	2	NR	525	626	NR	655	770	NR	785	22	NR	915	1	NR
400	4	NR	530	646	NR	660	712	NR	790	19	NR	920	0	NR
405	6	NR	535	666	NR	665	656	NR	795	16	NR	925	0	NR
410	9	NR	540	683	NR	670	596	NR	800	14	NR	930	0	NR
415	15	NR	545	702	NR	675	538	NR	805	12	NR	935	0	NR
420	27	NR	550	720	NR	680	486	NR	810	10	NR	940	0	NR
425	48	NR	555	740	NR	685	432	NR	815	9	NR	945	0	NR
430	85	NR	560	757	NR	690	385	NR	820	7	NR	950	0	NR
435	152	NR	565	776	NR	695	339	NR	825	6	NR	955	0	NR
440	274	NR	570	794	NR	700	297	NR	830	5	NR	960	0	NR
445	536	NR	575	816	NR	705	260	NR	835	5	NR	965	0	NR
450	793	NR	580	842	NR	710	225	NR	840	4	NR	970	0	NR
455	659	NR	585	867	NR	715	194	NR	845	3	NR	975	0	NR
460	484	NR	590	899	NR	720	169	NR	850	3	NR	980	0	NR
465	441	NR	595	927	NR	725	146	NR	855	2	NR	985	0	NR
470	353	NR	600	950	NR	730	125	NR	860	2	NR	990	0	NR
475	293	NR	605	974	NR	735	107	NR	865	2	NR	995	0	NR
480	300	NR	610	986	NR	740	92	NR	870	2	NR	1000	0	NR
485	325	NR	615	998	NR	745	79	NR	875	1	NR			

REPORT NUMBER: SP1-2506-458-10

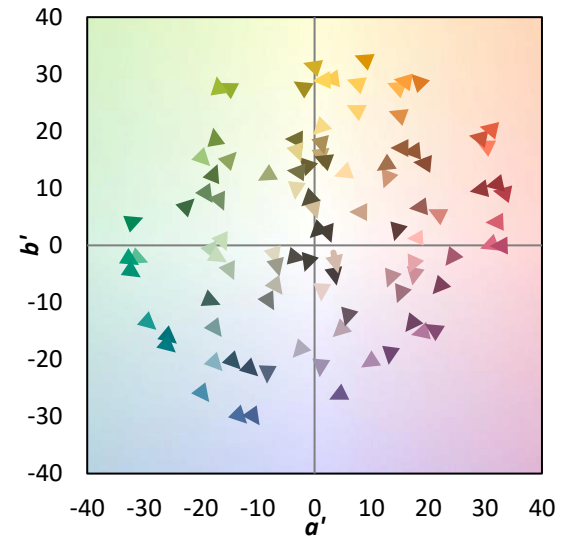
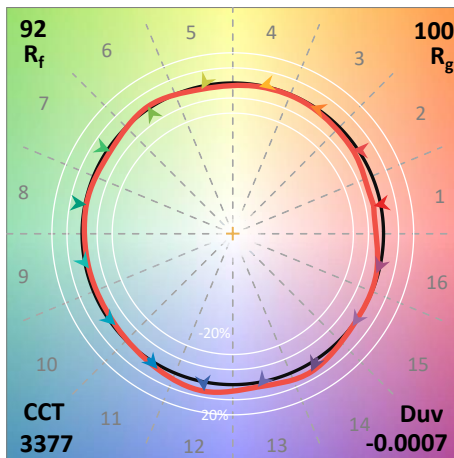
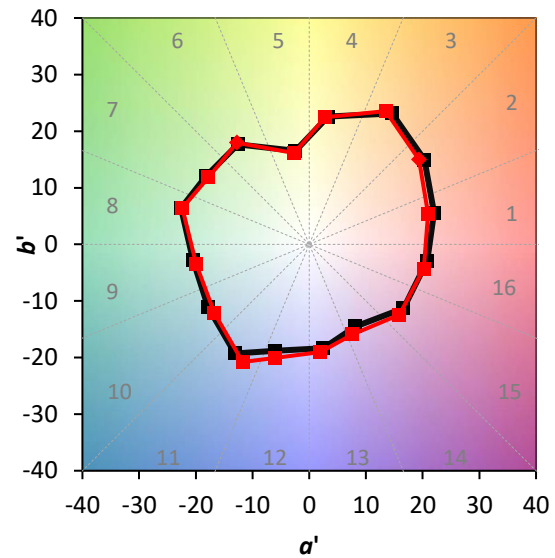
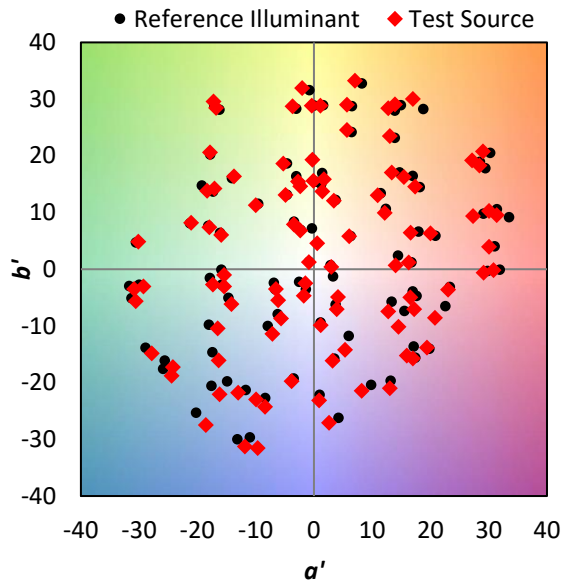
TM-30-18

Summary

$R_f = 91.8$
 $R_g = 99.6$
 $\text{CIE } R_a = 93.6$
 $R_9 = 64.2$

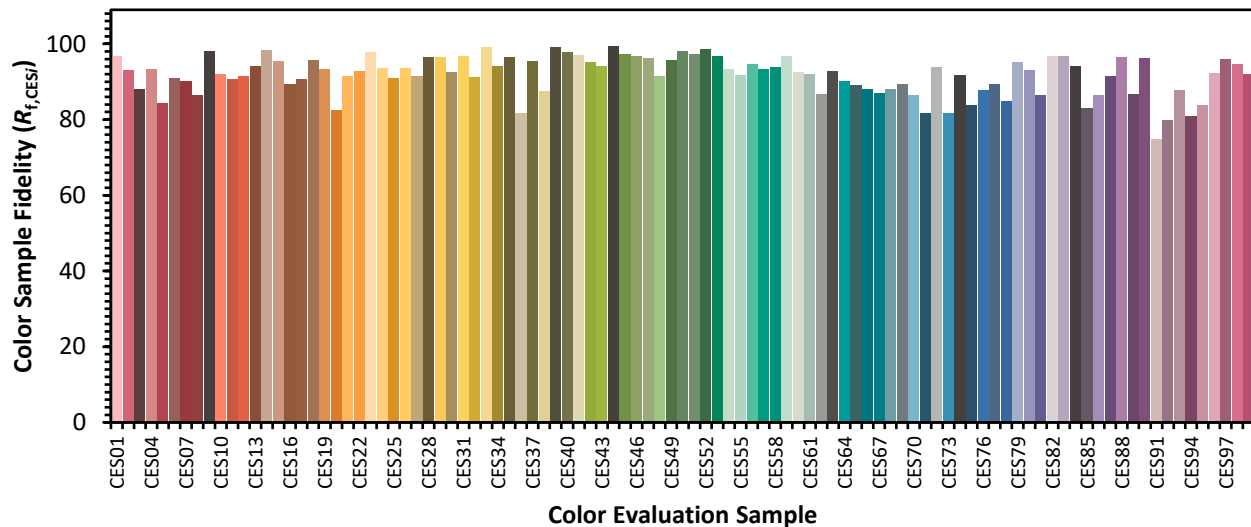


Color Vector Graphics

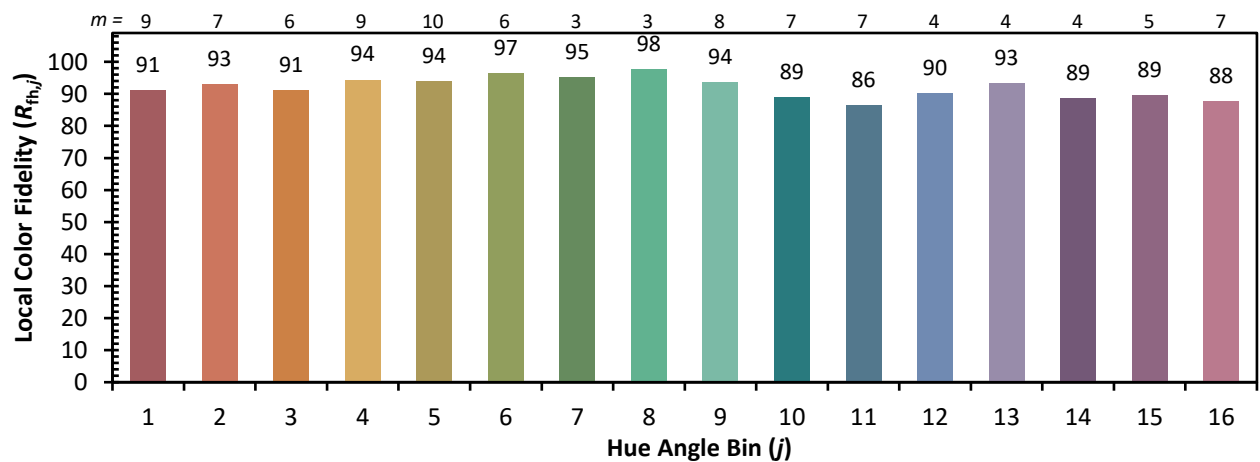
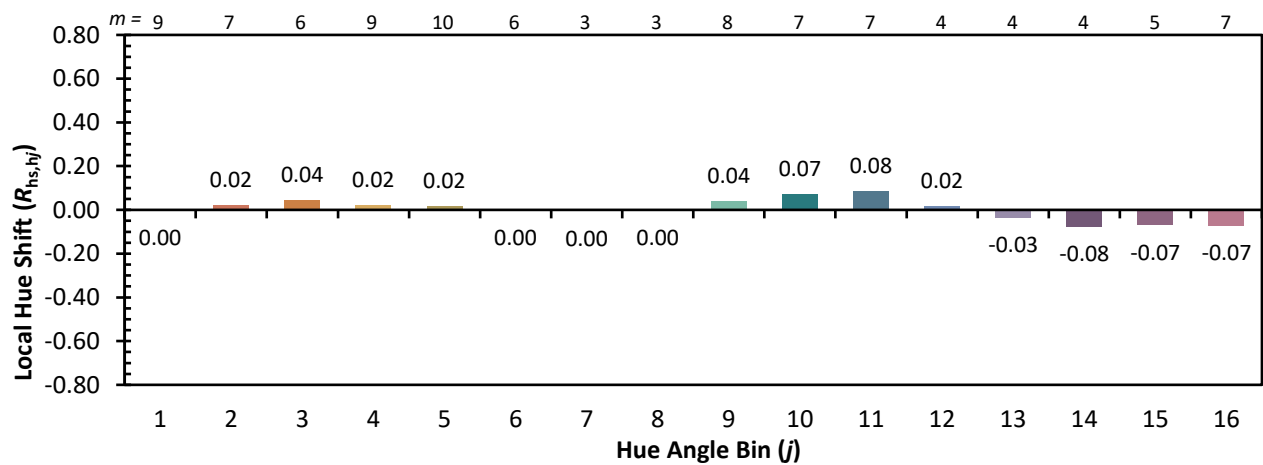
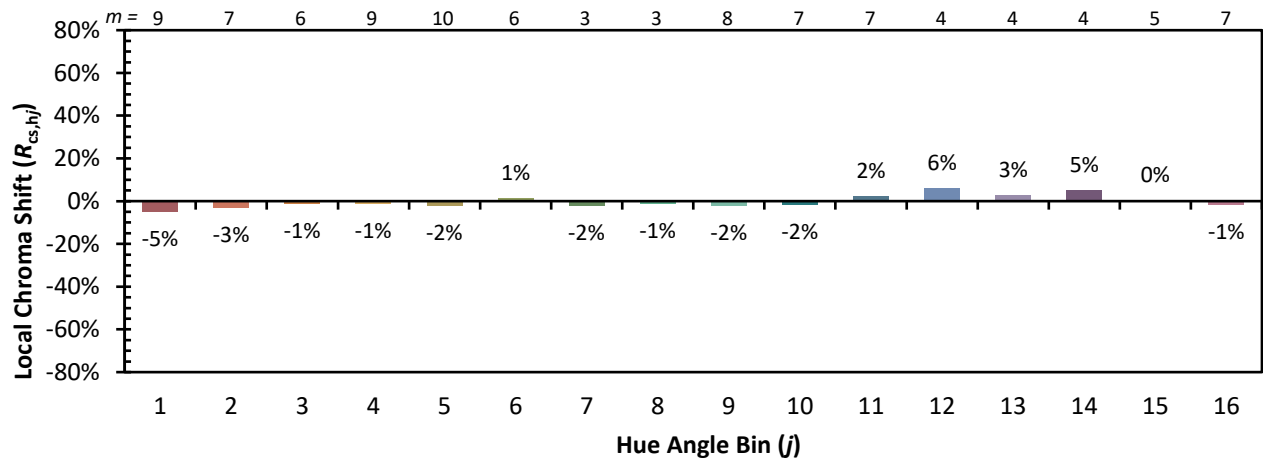


Individual Sample Fidelity Index ($R_{f,i}$)

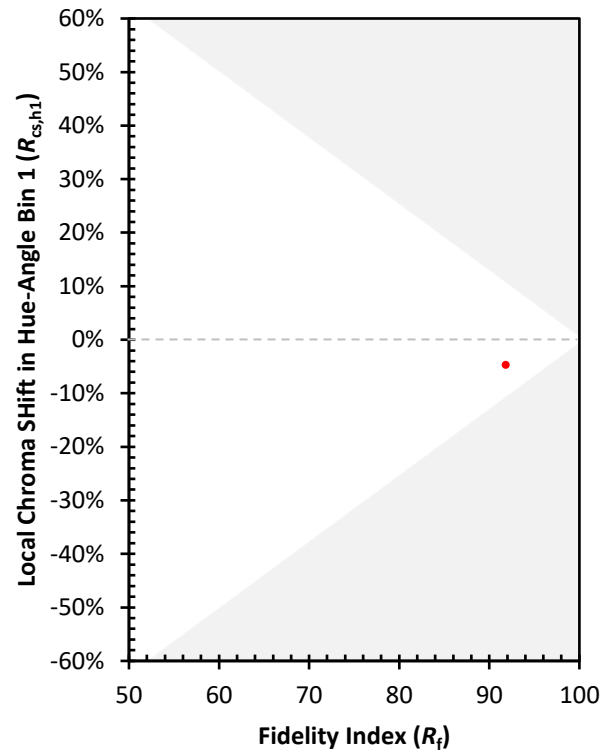
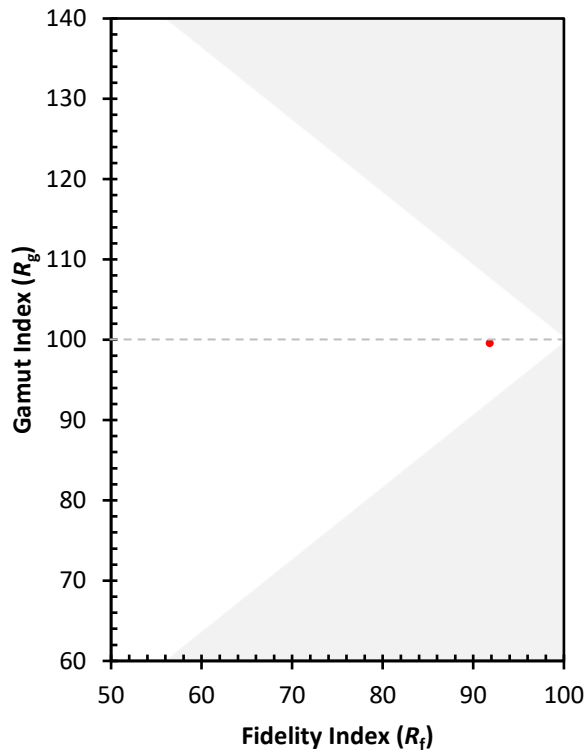
CES01 = 86	CES26 = 94	CES51 = 97	CES76 = 88
CES02 = 62	CES27 = 92	CES52 = 99	CES77 = 89
CES03 = 31	CES28 = 96	CES53 = 97	CES78 = 85
CES04 = 70	CES29 = 96	CES54 = 93	CES79 = 95
CES05 = 50	CES30 = 92	CES55 = 92	CES80 = 93
CES06 = 51	CES31 = 97	CES56 = 95	CES81 = 86
CES07 = 43	CES32 = 91	CES57 = 93	CES82 = 97
CES08 = 42	CES33 = 99	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 94	CES59 = 97	CES84 = 94
CES10 = 75	CES35 = 96	CES60 = 92	CES85 = 83
CES11 = 58	CES36 = 82	CES61 = 92	CES86 = 86
CES12 = 64	CES37 = 95	CES62 = 87	CES87 = 91
CES13 = 43	CES38 = 87	CES63 = 93	CES88 = 97
CES14 = 74	CES39 = 99	CES64 = 90	CES89 = 87
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 97	CES66 = 88	CES91 = 75
CES17 = 50	CES42 = 95	CES67 = 87	CES92 = 80
CES18 = 56	CES43 = 94	CES68 = 88	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 81
CES20 = 67	CES45 = 97	CES70 = 86	CES95 = 84
CES21 = 86	CES46 = 97	CES71 = 82	CES96 = 92
CES22 = 78	CES47 = 96	CES72 = 94	CES97 = 96
CES23 = 91	CES48 = 92	CES73 = 82	CES98 = 95
CES24 = 90	CES49 = 96	CES74 = 92	CES99 = 92
CES25 = 71	CES50 = 98	CES75 = 84	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)