

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: P1216062

Luminaire Tested: 24-ID2-55-CNC-L935-U

Issue Date: 12/5/2025

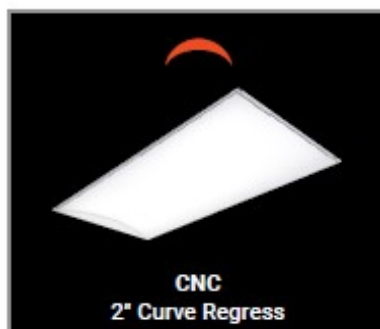
Test Information

Test Method: LM-79-2019
Report Number: P1216062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2508-510-9)
Test Lab: INNOVATION CENTER
Issue Date: 12/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24-ID2-55-CNC-L935-U
Description: 2X4 IN DEPTH TROFFER WITH 2INCH CURVE REGRESSED
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

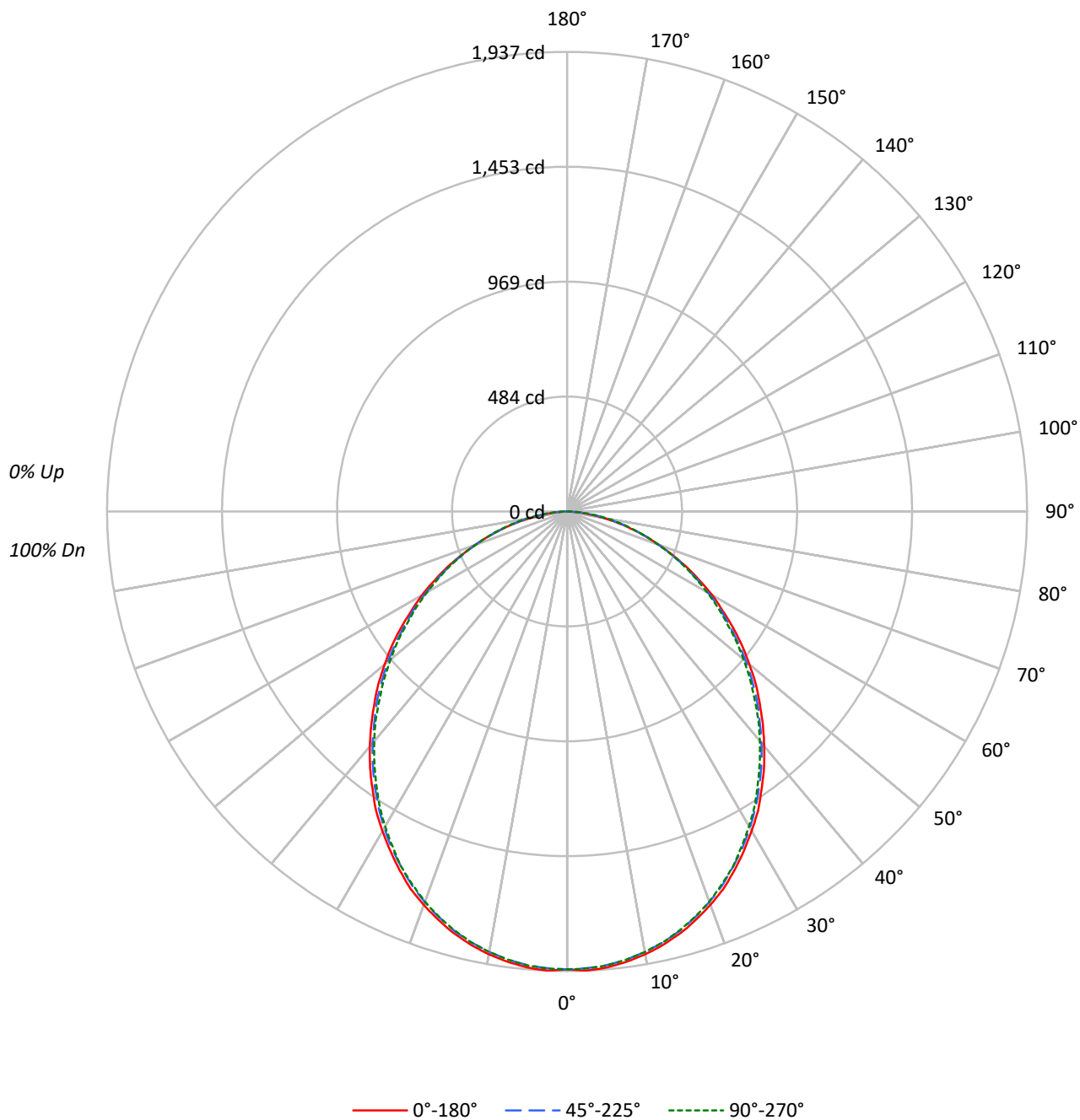
Lumens per Lamp: N/A
Luminaire Lumens: 4882.4 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 47.5
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: P1216062
CATALOG NUMBER: 24-ID2-55-CNC-L935-U

Luminous Intensity Polar Plot



TEST NUMBER: P1216062

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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	105	100	97	106	102	99	95	98	95	92		94	92	89		85
2	100	92	85	79	97	90	84	78	86	81	77		83	79	75		71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		60
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		40
7	66	53	44	38	64	52	44	38	51	43	38		49	42	37		35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	30		29
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2597	2597	2597
5°	2606	2592	2594
10°	2590	2576	2576
15°	2564	2549	2547
20°	2526	2509	2506
25°	2476	2454	2453
30°	2415	2393	2381
35°	2345	2319	2300
40°	2269	2237	2218
45°	2184	2154	2123
50°	2097	2059	2030
55°	2000	1952	1927
60°	1900	1850	1831
65°	1770	1738	1734
70°	1620	1612	1607
75°	1447	1471	1482
80°	1180	1285	1347
85°	812	1030	1030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2184 cd/sqm

TEST NUMBER: P1216062
 CATALOG NUMBER: 24-ID2-55-CNC-L935-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	3.7
10°-20°	516.0	10.6
20°-30°	762.1	15.6
30°-40°	883.5	18.1
40°-50°	872.8	17.9
50°-60°	747.7	15.3
60°-70°	542.6	11.1
70°-80°	299.5	6.1
80°-90°	75.9	1.6
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°	1460.3	29.9
0°-40°	2343.9	48.0
0°-60°	3964.4	81.2
0°-90°	4882.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4882.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1930	1930	1930	1930	1930	
5°	1929	1922	1919	1916	1920	183
15°	1841	1834	1830	1826	1828	519
25°	1668	1661	1653	1650	1652	768
35°	1428	1422	1412	1405	1400	894
45°	1148	1140	1132	1121	1116	886
55°	852	844	832	826	821	763
65°	556	551	546	543	544	550
75°	278	277	283	285	285	294
85°	53	58	67	67	67	66
90°	0	0	0	0	0	

TEST NUMBER: P1216062

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1929.9	1929.9	1929.9	1929.9	1929.9
2.5°	1936.7	1929.9	1926.6	1923.9	1927.9
5°	1929.3	1921.8	1919.1	1915.8	1920.5
7.5°	1914.4	1908.4	1905.0	1902.3	1905.0
10°	1895.6	1888.8	1885.5	1883.4	1885.5
12.5°	1870.6	1865.9	1860.5	1856.5	1860.5
15°	1841.0	1834.2	1830.2	1826.2	1828.2
17.5°	1804.6	1798.5	1793.1	1789.8	1791.8
20°	1764.2	1756.7	1752.0	1748.7	1750.0
22.5°	1721.7	1712.3	1706.2	1700.8	1701.5
25°	1667.8	1661.1	1653.0	1649.6	1652.3
27.5°	1612.5	1605.1	1598.4	1593.0	1591.6
30°	1554.6	1547.8	1540.4	1534.4	1532.3
32.5°	1496.6	1485.2	1477.1	1471.0	1470.4
35°	1427.9	1422.5	1411.7	1405.0	1400.3
37.5°	1362.5	1354.5	1343.7	1337.6	1332.9
40°	1291.8	1283.7	1273.6	1264.8	1262.8
42.5°	1220.4	1214.3	1200.8	1195.4	1192.1
45°	1147.6	1140.2	1132.1	1120.6	1115.9
47.5°	1078.2	1070.8	1057.3	1047.2	1044.5
50°	1002.0	993.3	983.8	971.7	969.7
52.5°	929.9	919.8	907.7	902.3	898.3
55°	852.4	844.3	832.2	825.5	821.4
57.5°	775.6	770.9	762.8	753.4	752.7
60°	706.2	696.8	687.3	680.6	680.6
62.5°	628.7	625.3	615.9	611.9	609.8
65°	555.9	551.2	545.8	543.1	544.5
67.5°	481.1	480.5	476.4	477.1	475.7
70°	411.7	409.0	409.7	411.1	408.4
72.5°	344.3	342.3	345.7	346.4	347.7
75°	278.3	277.0	283.0	285.0	285.0
77.5°	212.3	216.3	223.0	228.4	228.4
80°	152.3	157.7	165.8	170.5	173.9
82.5°	97.7	106.5	113.9	117.3	117.3
85°	52.6	58.0	66.7	67.4	66.7
87.5°	16.2	20.2	24.3	25.6	26.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1216062

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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	14.35	15.95	14.72	16.26	16.58	14.18	15.78	14.55	16.09	16.41
	3H	15.99	17.43	16.37	17.76	18.12	15.87	17.31	16.25	17.64	18.00
	4H	16.57	17.93	16.97	18.28	18.66	16.50	17.86	16.90	18.21	18.58
	6H	16.96	18.21	17.37	18.58	18.97	16.97	18.23	17.38	18.59	18.98
	8H	17.06	18.26	17.48	18.65	19.05	17.12	18.32	17.54	18.70	19.10
	12H	17.11	18.26	17.54	18.64	19.07	17.20	18.35	17.63	18.73	19.16
4H	2H	14.92	16.27	15.32	16.62	17.00	14.78	16.14	15.18	16.49	16.86
	3H	16.78	17.91	17.19	18.31	18.71	16.69	17.83	17.10	18.22	18.62
	4H	17.48	18.50	17.91	18.92	19.35	17.45	18.47	17.88	18.88	19.32
	6H	17.98	18.87	18.44	19.32	19.77	18.04	18.94	18.50	19.38	19.83
	8H	18.12	18.95	18.58	19.40	19.86	18.23	19.07	18.69	19.51	19.98
	12H	18.20	18.95	18.68	19.43	19.90	18.36	19.10	18.84	19.58	20.05
8H	4H	17.76	18.59	18.22	19.04	19.50	17.73	18.57	18.19	19.01	19.47
	6H	18.37	19.06	18.86	19.55	20.03	18.44	19.13	18.94	19.62	20.10
	8H	18.57	19.19	19.08	19.70	20.18	18.70	19.32	19.21	19.83	20.31
	12H	18.70	19.25	19.21	19.74	20.30	18.89	19.44	19.39	19.93	20.49
12H	4H	17.79	18.54	18.27	19.01	19.48	17.75	18.50	18.23	18.98	19.45
	6H	18.42	19.04	18.93	19.55	20.03	18.48	19.11	18.99	19.61	20.10
	8H	18.67	19.22	19.17	19.71	20.27	18.79	19.34	19.30	19.83	20.40

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

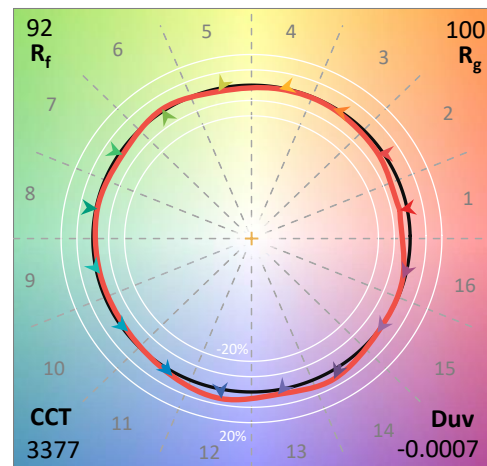
Test Information

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

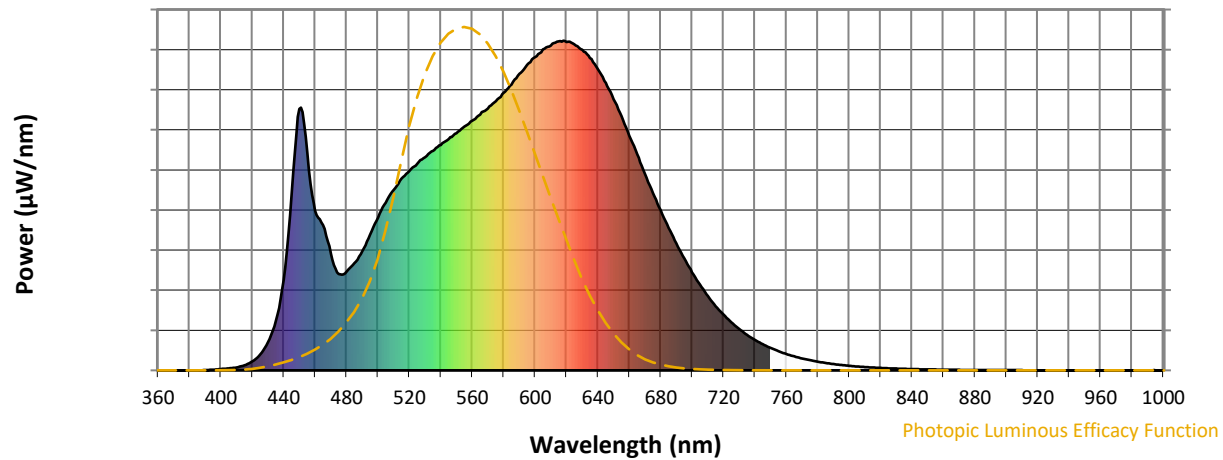
Stabilization Time: 32M
 Operation Time: 1H 32M
 Sphere Temperature (°C): 25.2

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

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Photopic Flux vs. Wavelength

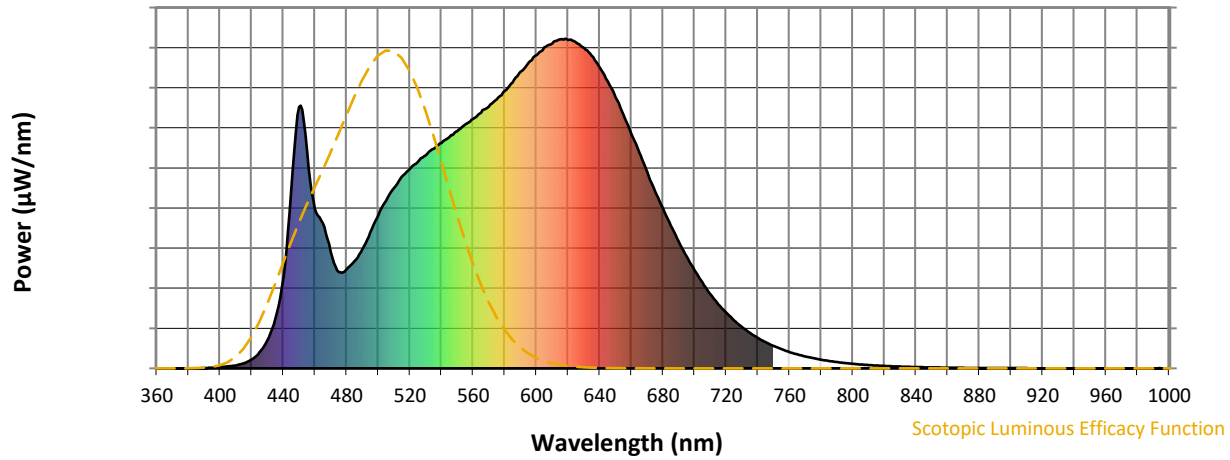


Photopic Lumens: NR

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



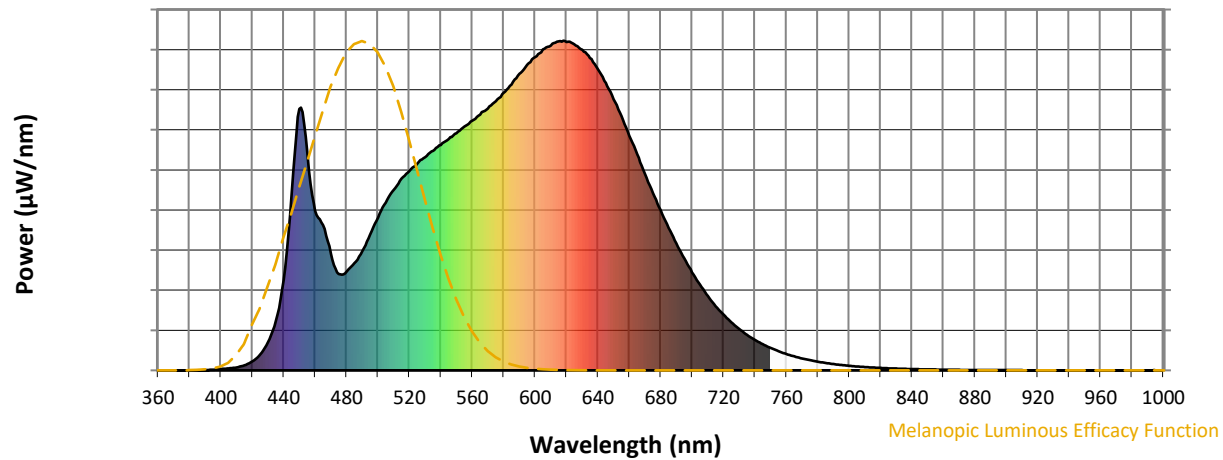
Scotopic Lumens: NR

S/P: 1.58

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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

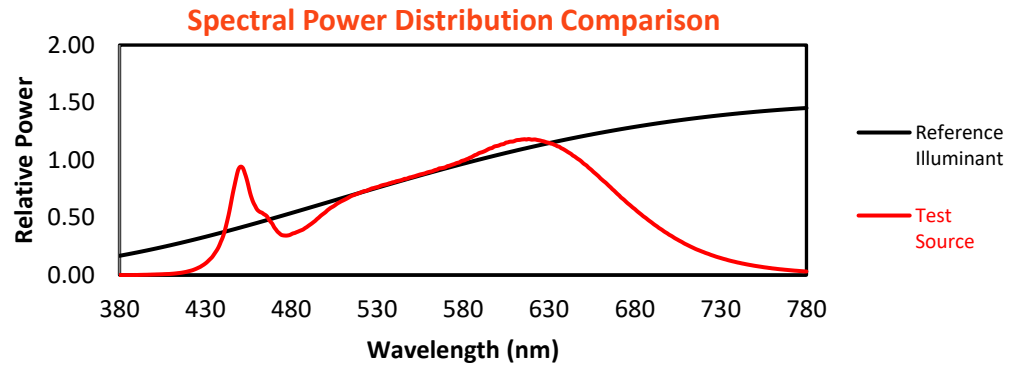
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	362	NR	620	996	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			

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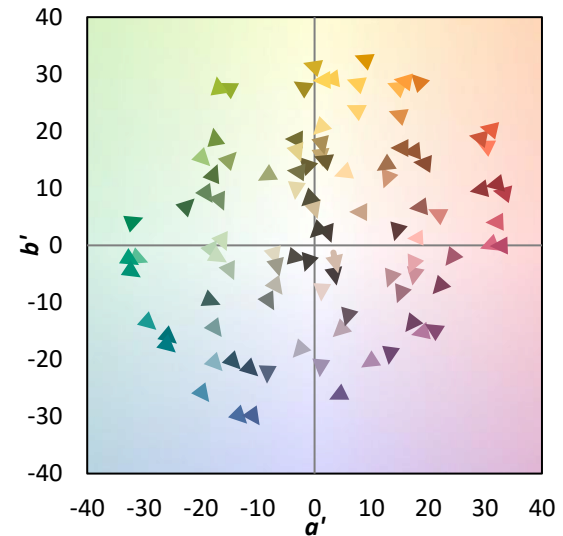
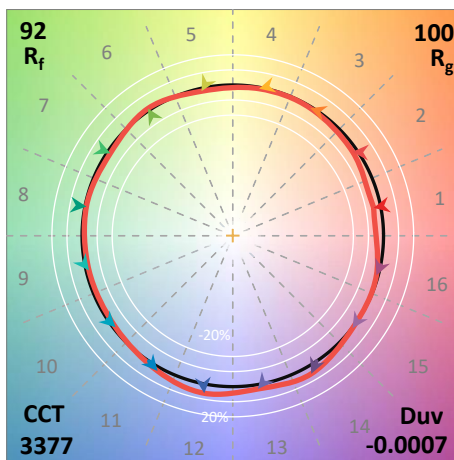
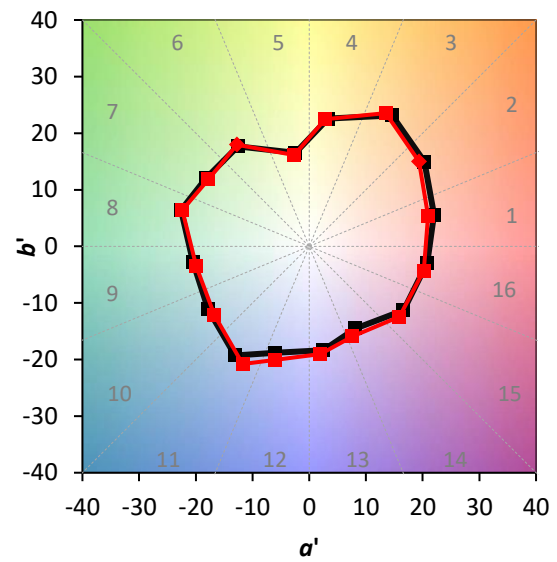
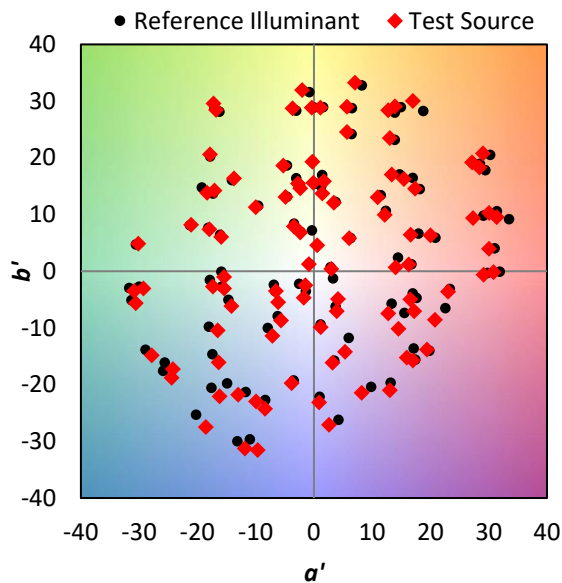
TM-30-18

Summary

$R_f = 91.8$
 $R_g = 99.6$
 $CIE R_a = 93.6$
 $R_9 = 64.2$

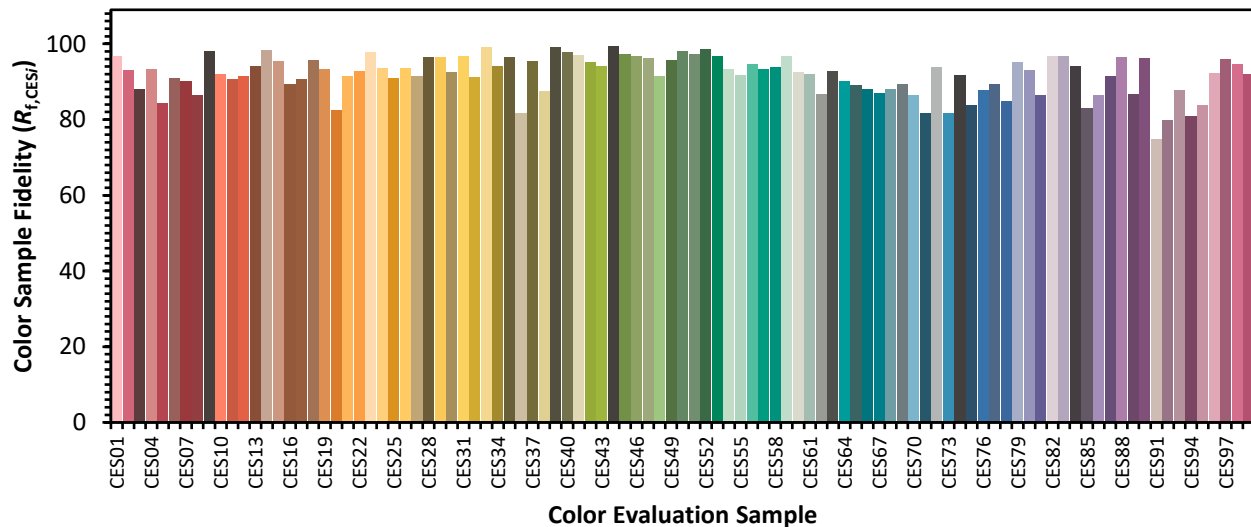


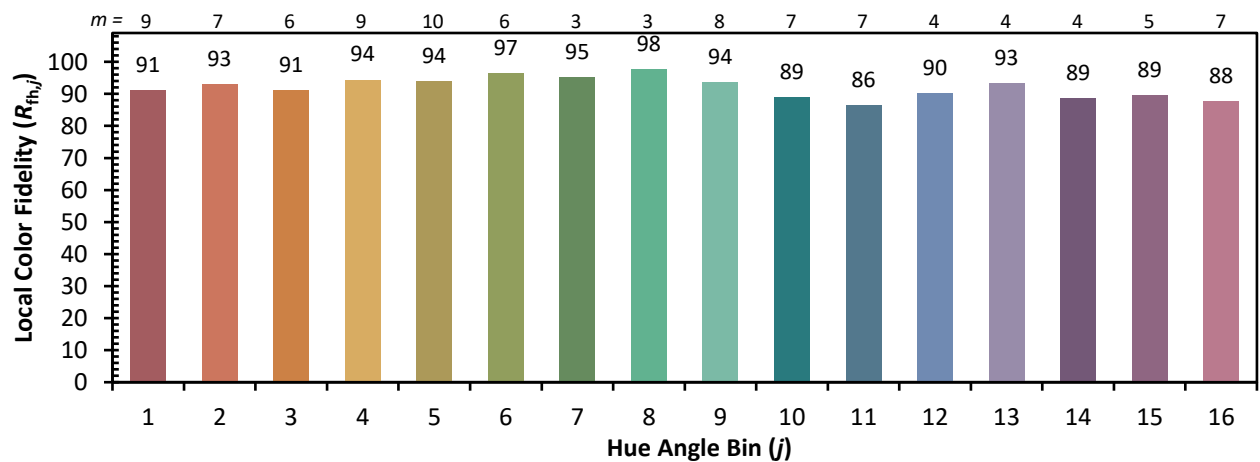
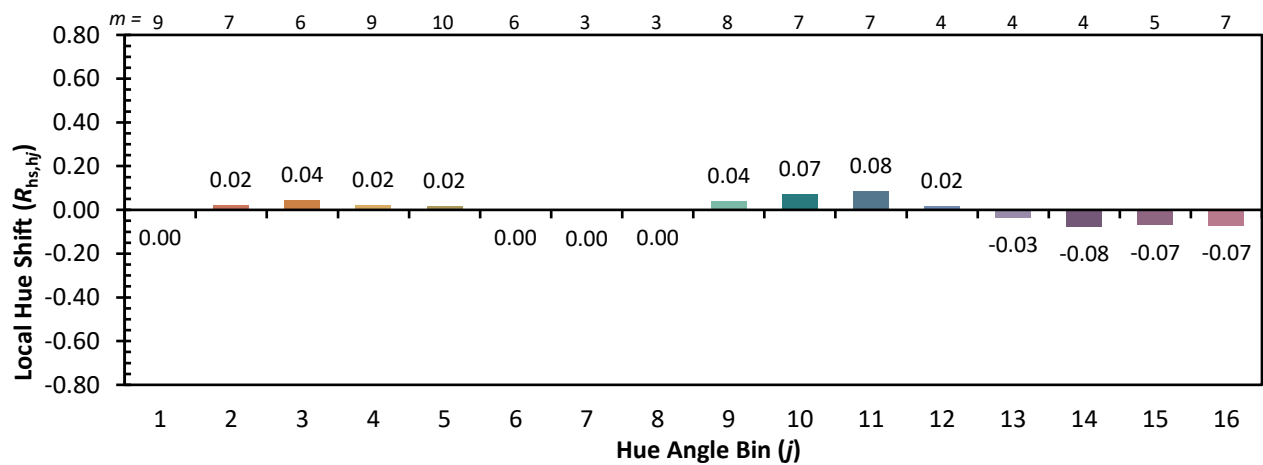
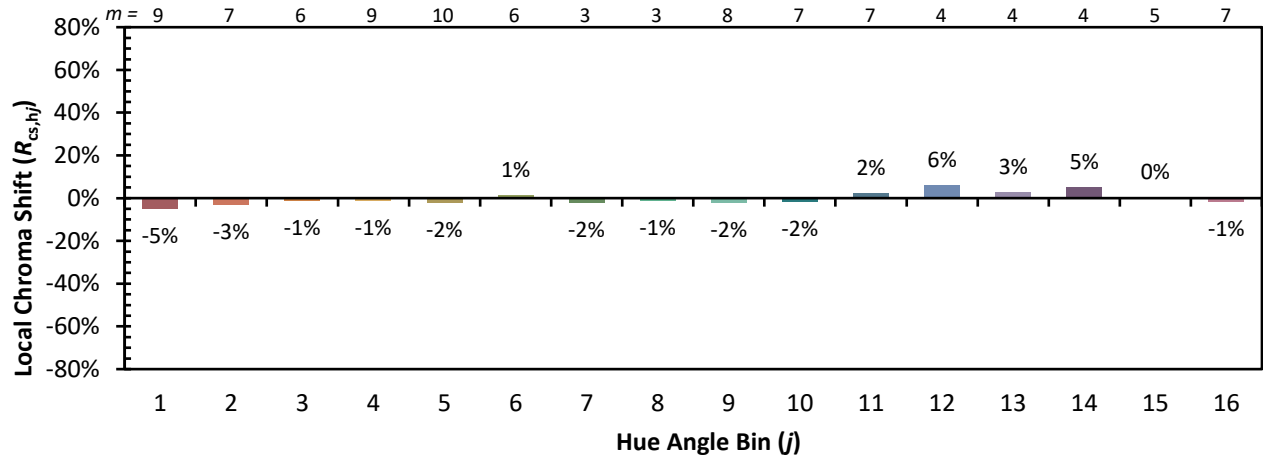
Color Vector Graphics



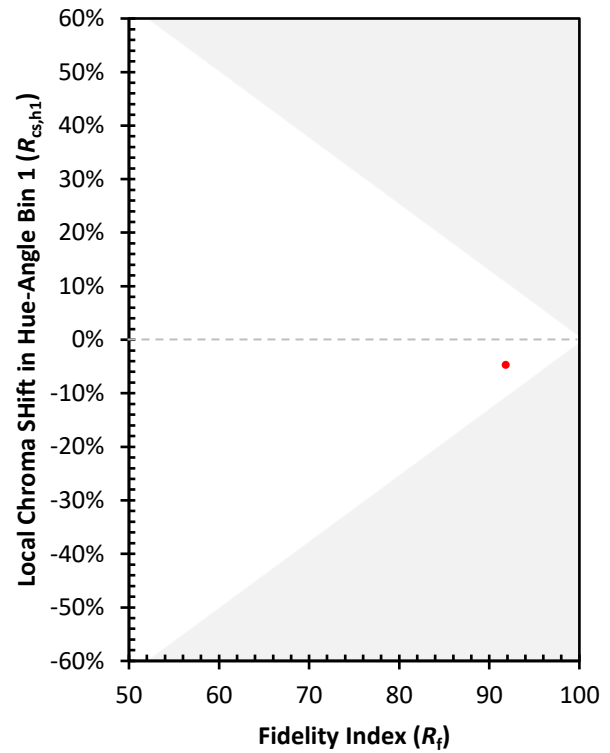
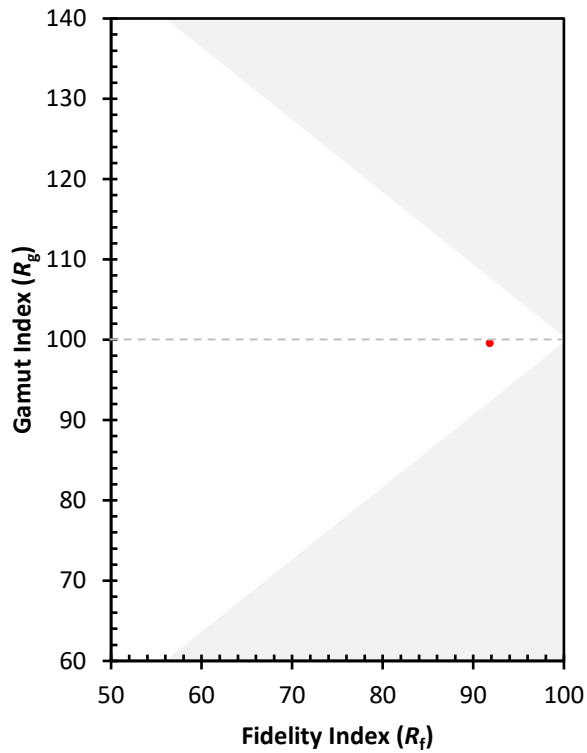
Individual Sample Fidelity Index ($R_{f,i}$)

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)