



Photometric Indoor Test Report

Relevant Standards

IES LM-79-2008

ANSI C82.77

Prepared For

Philips Alkco

Scott Pahl

11500 Melrose Avenue

Franklin Park, IL 60131

Catalog Number

SOFTLOOK 36"

LTL Test Number

24279

Test Date

2011-07-15

Prepared By

Eric Gaudreau, Technician III

Approved By

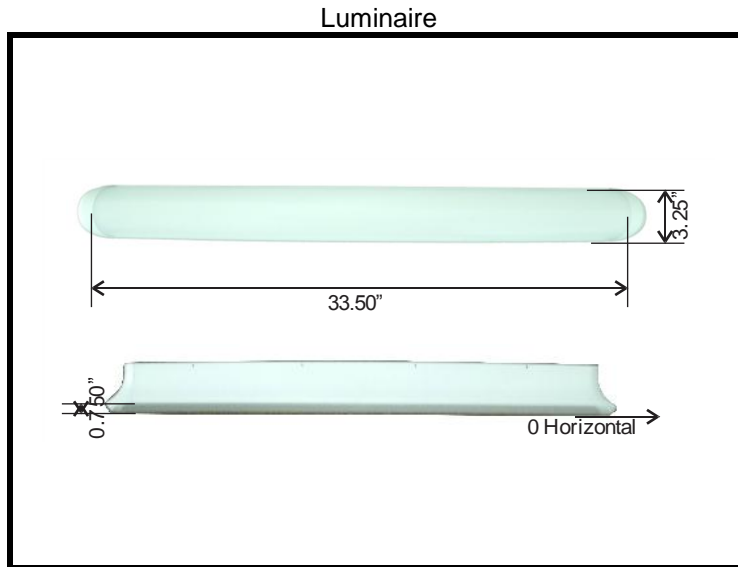
Zachary Mooney, Project Coordinator

The results contained in this report pertain only to the tested sample.

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Luminaire Description: Cast aluminum housing, translucent white plastic enclosure
Catalog Number: SOFTLOOK 36"
Lamp: 60 white LEDs
Mounting: Surface / Base Up
Ballast/Driver: One High Perfection Tech LP1017-12



Zonal Lumen Summary

Table with 4 columns: Zone (Degrees), Lumens, % of Lamp, % of Luminaire. Rows include zones from 0-30 to 0-180.

Test Conditions

Test Temperature: 24.4 °C
Voltage: 120.0 VAC
Current: 0.1898 A
Power: 22.71 W
Power Factor: 0.997
Frequency: 60 Hz

Summary of Results

Total Lumen Output: 772.8 Lumens
Luminaire Efficacy: 34.0 Lumens/Watt
CIE Type: Direct
Spacing Criterion: 0 Degree: 1.19 90 Degree: 1.19 180 Degree: 1.19 270 Degree: 1.19

Data was acquired using the calibrated photodetector method of absolute photometry. A spectral mismatch correction factor was employed based on the spectral responsivity of the photodetector and the spectral power distribution of the test subject.



Candela Tabulation
Horizontal Angle (Degrees)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	283.2	283.2	283.2	283.2	283.2	283.2	283.2	283.2	283.2	283.2	283.2	283.2	283.2	283.2	283.2	283.2
5	279.3	280.6	281.1	282.3	283.3	282.3	281.1	280.6	279.3	280.6	281.1	282.3	283.3	282.3	281.1	280.6
10	274.7	275.8	276.3	277.6	278.6	277.6	276.3	275.8	274.7	275.8	276.3	277.6	278.6	277.6	276.3	275.8
15	266.6	267.6	268.3	269.3	270.3	269.3	268.3	267.6	266.6	267.6	268.3	269.3	270.3	269.3	268.3	267.6
20	255.5	256.7	257.2	258.1	259.1	258.1	257.2	256.7	255.5	256.7	257.2	258.1	259.1	258.1	257.2	256.7
25	242.4	243.4	243.6	244.2	244.6	244.2	243.6	243.4	242.4	243.4	243.6	244.2	244.6	244.2	243.6	243.4
30	226.4	227.2	227.1	226.8	226.4	226.8	227.1	227.2	226.4	227.2	227.1	226.8	226.4	226.8	227.1	227.2
35	208.4	209.0	208.2	206.7	206.0	206.7	208.2	209.0	208.4	209.0	208.2	206.7	206.0	206.7	208.2	209.0
40	189.1	189.2	187.5	185.0	183.8	185.0	187.5	189.2	189.1	189.2	187.5	185.0	183.8	185.0	187.5	189.2
45	168.9	168.7	166.0	163.0	161.9	163.0	166.0	168.7	168.9	168.7	166.0	163.0	161.9	163.0	166.0	168.7
50	148.4	147.5	144.6	141.7	140.9	141.7	144.6	147.5	148.4	147.5	144.6	141.7	140.9	141.7	144.6	147.5
55	127.3	126.1	123.4	121.8	121.4	121.8	123.4	126.1	127.3	126.1	123.4	121.8	121.4	121.8	123.4	126.1
60	105.5	104.4	103.1	103.4	103.5	103.4	103.1	104.4	105.5	104.4	103.1	103.4	103.5	103.4	103.1	104.4
65	84.4	83.6	84.7	86.7	87.1	86.7	84.7	83.6	84.4	83.6	84.7	86.7	87.1	86.7	84.7	83.6
70	62.3	63.6	68.1	71.9	73.2	71.9	68.1	63.6	62.3	63.6	68.1	71.9	73.2	71.9	68.1	63.6
75	41.1	45.3	53.2	58.4	60.0	58.4	53.2	45.3	41.1	45.3	53.2	58.4	60.0	58.4	53.2	45.3
80	22.3	30.0	40.3	46.6	48.6	46.6	40.3	30.0	22.3	30.0	40.3	46.6	48.6	46.6	40.3	30.0
85	6.8	18.1	29.5	36.7	38.7	36.7	29.5	18.1	6.8	18.1	29.5	36.7	38.7	36.7	29.5	18.1
90	0.0	9.4	20.7	27.9	30.1	27.9	20.7	9.4	0.0	9.4	20.7	27.9	30.1	27.9	20.7	9.4
95	0.0	4.0	13.7	20.4	22.9	20.4	13.7	4.0	0.0	4.0	13.7	20.4	22.9	20.4	13.7	4.0
100	0.0	1.1	8.3	14.3	16.4	14.3	8.3	1.1	0.0	1.1	8.3	14.3	16.4	14.3	8.3	1.1
105	0.0	0.2	4.3	9.3	11.1	9.3	4.3	0.2	0.0	0.2	4.3	9.3	11.1	9.3	4.3	0.2
110	0.0	0.0	2.0	5.4	7.2	5.4	2.0	0.0	0.0	0.0	2.0	5.4	7.2	5.4	2.0	0.0
115	0.0	0.0	0.4	2.8	3.9	2.8	0.4	0.0	0.0	0.0	0.4	2.8	3.9	2.8	0.4	0.0
120	0.0	0.0	0.0	0.7	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.7	1.5	0.7	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Zonal Lumen Tabulation (5 degree zones)

Zone (Degrees)	Lumens	Zone (Degrees)	Lumens	Zone (Degrees)	Lumens	Zone (Degrees)	Lumens
0-5	6.75	45-50	62.61	90-95	8.32	135-140	0
5-10	19.96	50-55	58.31	95-100	5.47	140-145	0
10-15	32.35	55-60	52.54	100-105	3.39	145-150	0
15-20	43.37	60-65	45.86	105-110	1.93	150-155	0
20-25	52.51	65-70	38.64	110-115	0.96	155-160	0
25-30	59.48	70-75	31.18	115-120	0.36	160-165	0
30-35	63.96	75-80	23.94	120-125	0.09	165-170	0
35-40	65.83	80-85	17.53	125-130	0	170-175	0
40-45	65.31	85-90	12.18	130-135	0	175-180	0



Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%												
Ceiling Cavity Reflectance	90				80				70			
Wall Reflectance	70	50	30	10	70	50	30	10	70	50	30	10
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **											
0	939.9	939.9	939.9	939.9	915.1	915.1	915.1	915.1	891.5	891.5	891.5	891.5
1	855.3	812.0	773.6	739.1	830.5	791.4	756.4	724.9	807.1	771.8	739.9	711.0
2	779.1	707.1	648.2	599.2	755.3	689.9	635.8	590.3	732.8	673.4	623.8	581.6
3	711.7	621.3	552.4	498.1	689.3	606.8	543.0	492.2	668.2	593.0	533.9	486.3
4	652.7	551.0	477.8	422.6	632.0	538.8	470.6	418.5	612.6	527.2	463.6	414.4
5	600.9	492.8	418.7	364.7	582.1	482.5	413.0	361.7	564.3	472.6	407.4	358.7
6	555.4	444.1	370.9	319.1	538.2	435.4	366.3	316.8	522.1	426.9	361.9	314.6
7	515.2	403.0	331.7	282.5	499.7	395.5	328.0	280.7	485.0	388.3	324.3	278.9
8	479.7	368.0	299.2	252.5	465.6	361.5	296.0	251.1	452.4	355.3	293.0	249.7
9	448.2	337.9	271.7	227.6	435.4	332.3	269.1	226.5	423.4	326.9	266.6	225.3
10	420.1	311.9	248.4	206.7	408.6	307.0	246.2	205.8	397.7	302.3	244.1	204.8

Ceiling Cavity Reflectance	50				30			10			0
Wall Reflectance	70	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **										
0	847.3	847.3	847.3	847.3	806.9	806.9	806.9	769.7	769.7	769.7	752.3
1	763.6	734.9	708.7	684.7	701.0	679.7	660.0	669.8	652.8	636.8	618.9
2	691.3	642.5	600.9	564.9	614.0	579.3	548.9	587.6	559.1	533.6	515.5
3	629.4	566.9	516.5	475.0	542.8	500.0	464.1	520.4	484.4	453.6	435.7
4	576.8	505.1	450.0	406.4	484.6	437.1	398.7	465.5	424.8	391.1	373.6
5	531.6	453.9	396.7	352.8	436.4	386.4	347.1	420.1	376.5	341.5	324.5
6	492.4	410.9	353.2	310.1	395.9	344.8	305.8	381.9	336.8	301.5	285.1
7	458.1	374.5	317.2	275.5	361.6	310.3	272.0	349.4	303.6	268.7	253.0
8	427.9	343.3	287.1	246.9	332.2	281.3	244.2	321.6	275.8	241.5	226.5
9	401.3	316.5	261.6	223.1	306.7	256.7	220.8	297.5	252.0	218.6	204.4
10	377.6	293.2	239.8	203.0	284.7	235.7	201.1	276.6	231.7	199.3	185.7

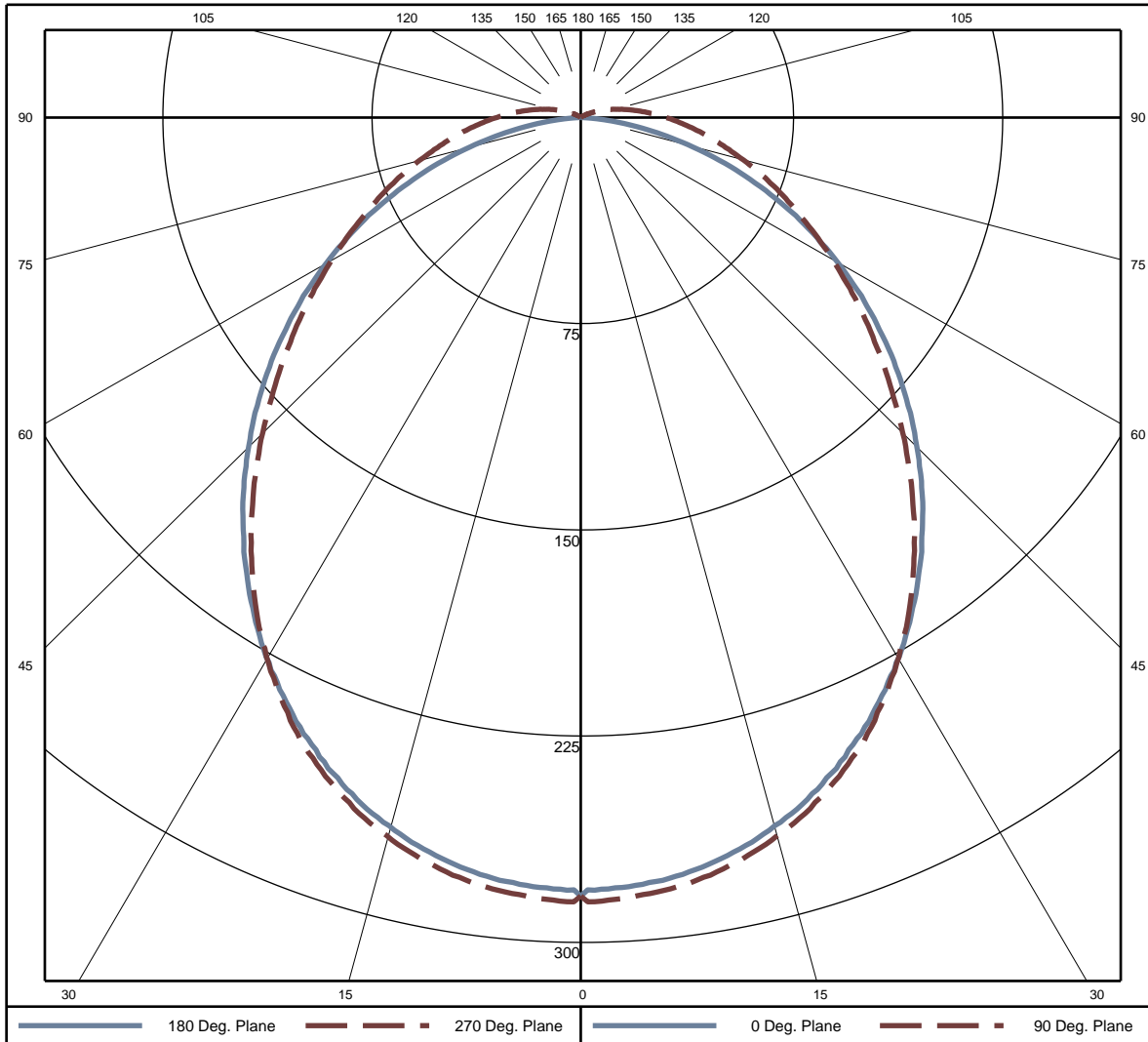
Average Luminance Table (cd/m²)

		Horizontal Angle (Degrees)		
		0	45	90
Vertical Angle (Degree)	0	4031	4031	4031
	45	3400	2874	2649
	55	3159	2484	2267
	65	2842	2113	1963
	75	2262	1817	1773
	85	1115	1682	1737

This test was conducted using photometry techniques according to standard IES procedures. The user must therefore use caution in the following situations: 1) This test was performed using a specific ballast/lamp combination. Extrapolation of this data for other ballast/lamp combinations may produce erroneous results. 2) This test was conducted in a controlled laboratory environment where the ambient temperature was held at 25°C ±1°C. Field performance may differ particularly in regards to change in luminous output as a result of difference in ambient temperature and method of mounting the luminaire.



Polar Plot (Candela)





Integrating Sphere Test Report

Relevant Standards
IES LM-79-2008
ANSI C78.377-2008, ANSI C82.77
CIE 13.3-1995, CIE 15-2004

Prepared For
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Scott Pahl
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Catalog Number
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LTL Test Number
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Test Date

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Prepared By

Eric Gaudreau, Technician III

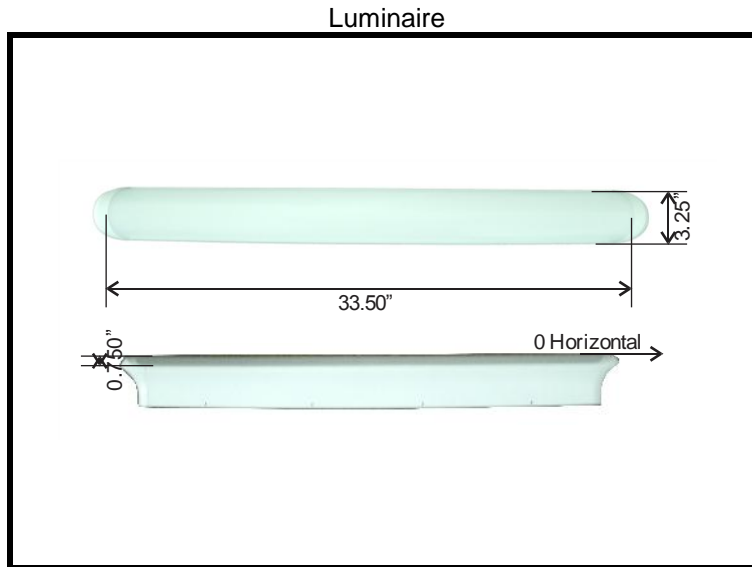
Approved By

Brian Moyer, Engineer

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Luminaire Description: Cast aluminum housing, translucent white plastic enclosure
Catalog Number: SOFTLOOK 36"
Lamp: 60 white LEDs
Mounting: Surface / Base Down
Ballast/Driver: One High Perfection Tech LP1017-12



Summary of Results

Radiant Flux: 2598 mW
Luminous Flux: 752.9 Lumens
Luminaire Efficacy: 33.2 Lumens/Watt
CCT: 2953 K
CRI (Ra): 84.0
Chromaticity (x): 0.4377
Chromaticity (y): 0.4003
Chromaticity (u): 0.2527
Chromaticity (v): 0.3467
Duv: -0.0019

Test Conditions

Test Temperature: 24.9 °C
Voltage: 120.0 VAC
Current: 0.1896 A
Power: 22.66 W
Power Factor: 0.996
Frequency: 60 Hz

Testing was performed in a Labsphere SLMS7650 two meter integrating sphere using the 4π geometry method, a Labsphere CDS 1100 spectrometer, and LightMtrX software.
Absorption correction was employed for this measurement.

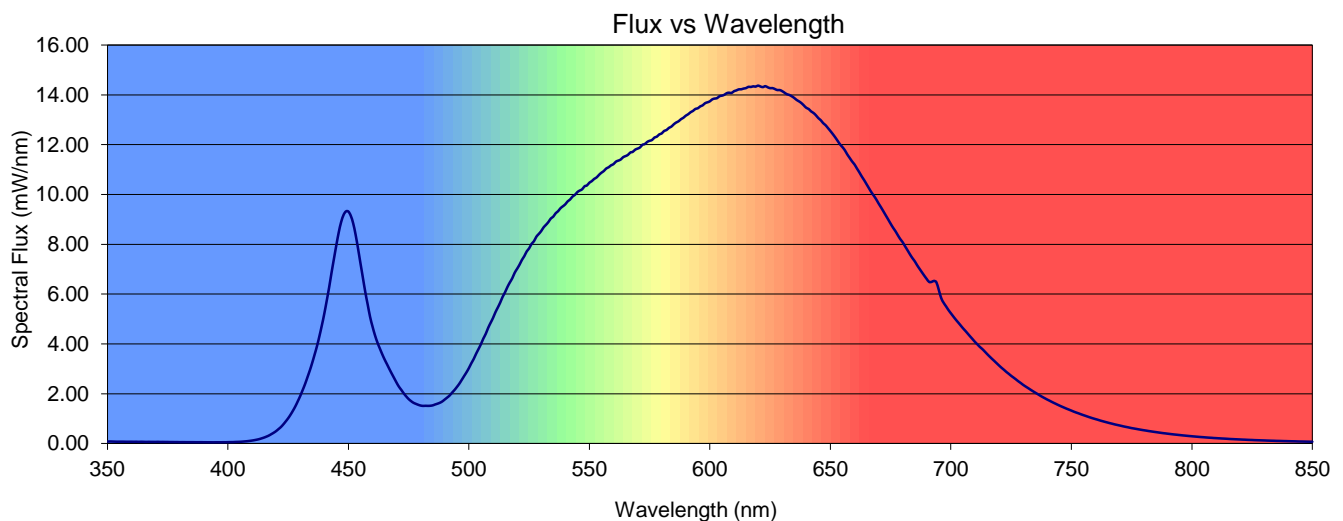
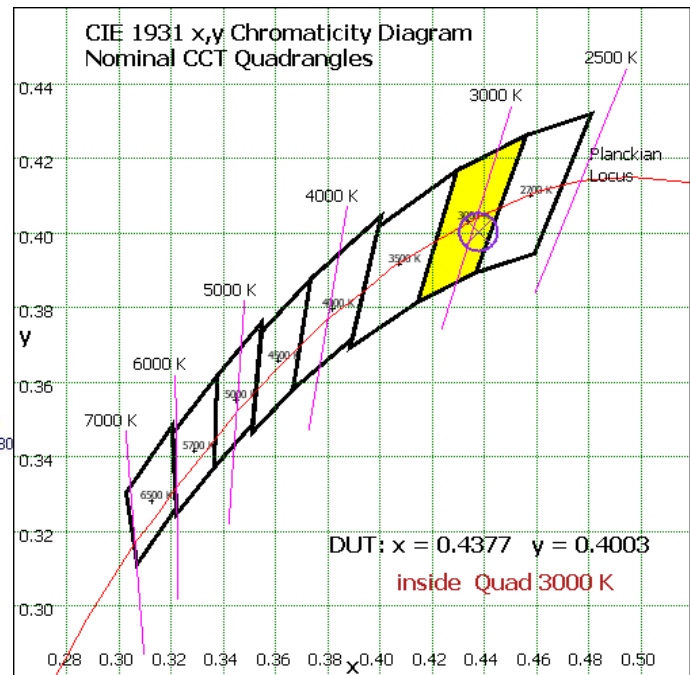
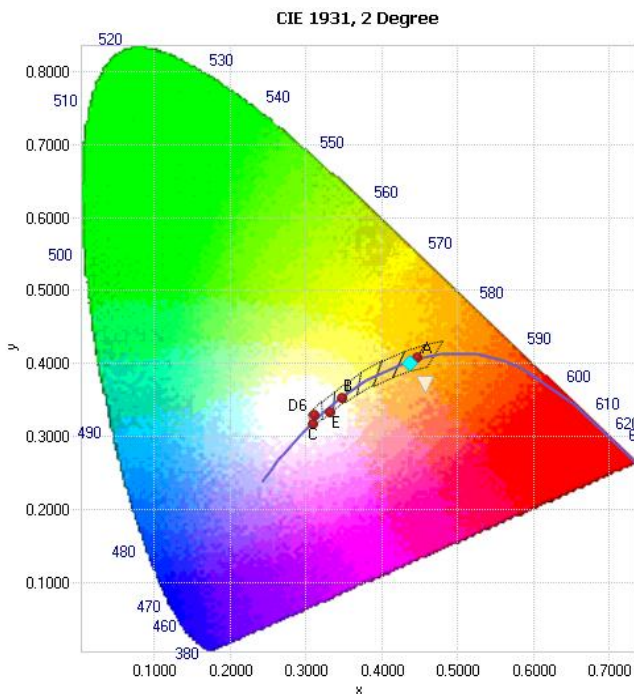


Chromaticity Coordinates

x	y	u	v	u'	v'	Duv
0.4377	0.4003	0.2527	0.3467	0.2527	0.5200	-0.0019

Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
84.0	84.5	87.7	87.7	83.7	81.9	81.0	89.2	76.5	43.7	68.7	80.5	58.9	84.6	92.1





Spectral Power Distribution

Table with 16 columns (λ(nm), mW/nm) and 40 rows of spectral data points.