Lab code: 200985-0

Project No.: 4787532324
Report No.: 4787532324.2
Issue Date: 2016/08/25

PHOTOMETRIC TEST REPORT

Testing Laboratory

UL International Italia S.r.l.
Via XXV Aprile 3/B - 20875 Burago di Molgora (Italy)

Customer Company & Address

ARTEMIDE SPA
VIA BERGAMO 18, PREGNANA MILANESE , MI 20010 - IT

Manufacturer:	ARTEMIDE SPA
Model Name:	DEMETRA PROFESSIONAL
Model Number:	DEMETRA PROFESSIONAL
Product Type:	Portable LED Luminaire
Product Description:	Portable LED luminaire equipped wit one COB LED source and external power supply. The optical system is composed by transparent cover and aluminium reflector.
LED Model:	CREE mod.: CXB1512
Power Supply Model:	UE LED DRIVER mod.: UE15WCP1-240063SPA
Electrical Ratings:	
Input Voltage (V):	100-240
Input Current (A):	-
Input Power (W)	12
Input Frequency (Hz):	60

Photometric Measurement:	Absolute
Reference Standard:	IES LM-79-08
Sample number:	432417
Total report pages:	13

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This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Prepared By	**Approved By**
Giovanni Di Martino	Walter Parmiani
Name & Signatory	**Name & Signatory**

TEST RESULTS SUMMARY

Test Method: Integrating Sphere
Photometric Measurement: Absolute
Test Date: 2016/8/5

Environmental Conditions:

		Unit
Ambient Temperature:	24.8	°C
Relative Humidity:	60	%

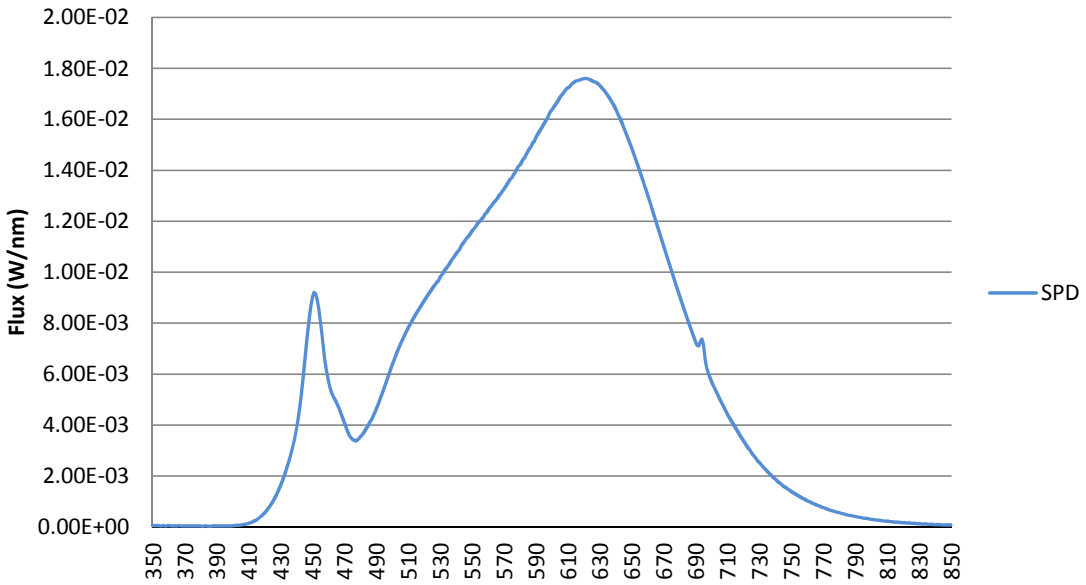
Electrical Conditions:

		Unit
Input Voltage:	120	V
Input Current:	0.217	A
Input Power:	12.13	W
Input Frequency:	60	Hz
Power Factor:	0.47	

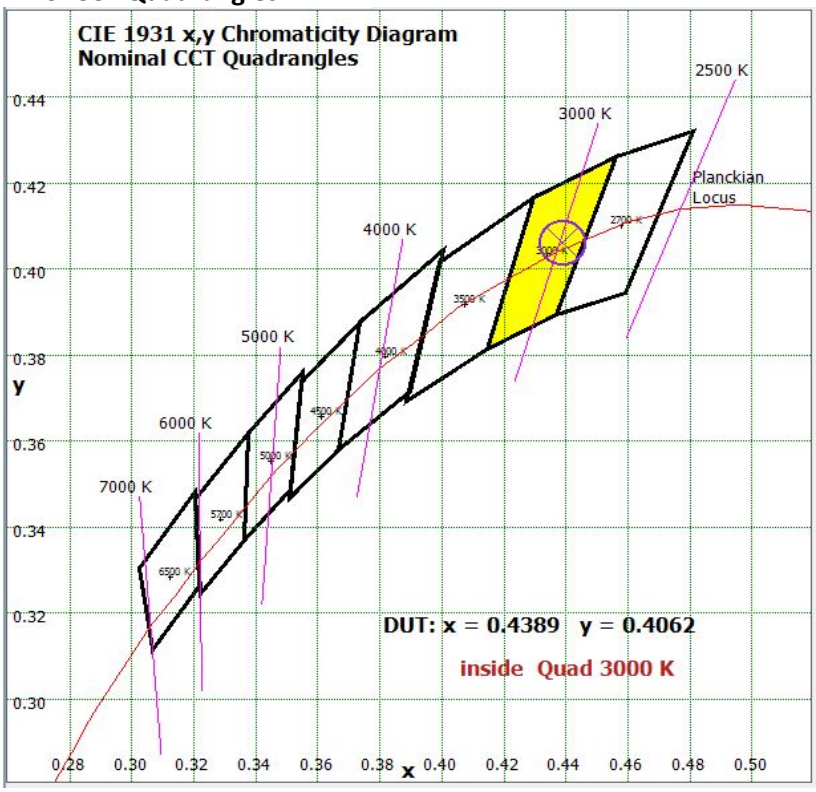
Photometric results:

		Unit
Chrom x	0.4389	
Chrom y	0.4062	
Chrom u	0.2509	
Chrom v	0.3483	
Duv	0.0004	
Chrom u'	0.2509	
Chrom v'	0.5225	
Peak	620.9	nm
Dominant	582.7	nm
CCT	2982	K
Nominal CCT	3000	K
CRI	91.32	
R9	56.2	
Pre-burning time:	1.00	hrs
Stabilization time:	30	min
Test configuration:	4pi	

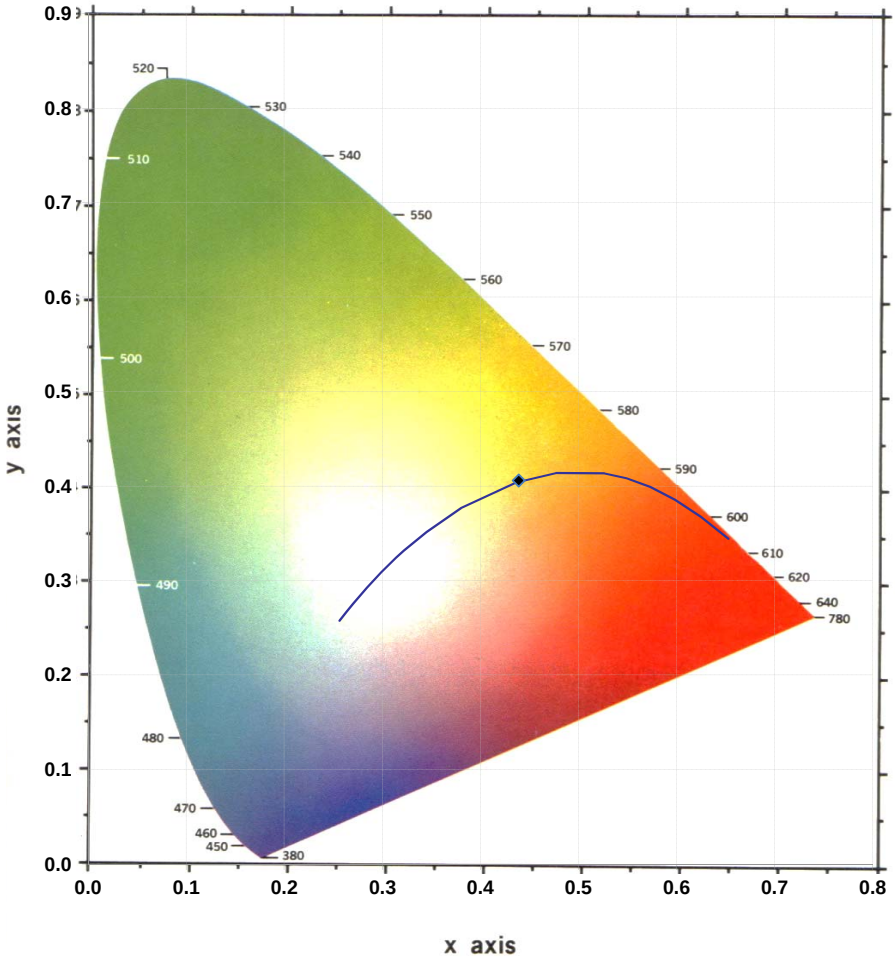
Spectral Power Distribution



ANSI CCT Quadrangles



Chromaticity Diagram CIE 1931



TEST RESULTS SUMMARY

Test Method: Goniophotometer
Photometric Measurement: Absolute
Test Date: 2016/8/5

Environmental Conditions:

		Unit
Ambient Temperature:	24.8	°C
Relative Humidity:	56.7	%

Electrical Conditions:

		Unit
Input Voltage:	120.02	V
Input Current:	0.2	A
Input Power:	12.12	W
Input Frequency:	60	Hz

Photometric results:

		Unit
Total Luminous Flux:	868.76	Lm
System Efficacy:	71.68	Lm/W
Pre-burning time:	1.00	hrs
Stabilization time:	30	min
Test distance:	8.62	m

Dimensions:

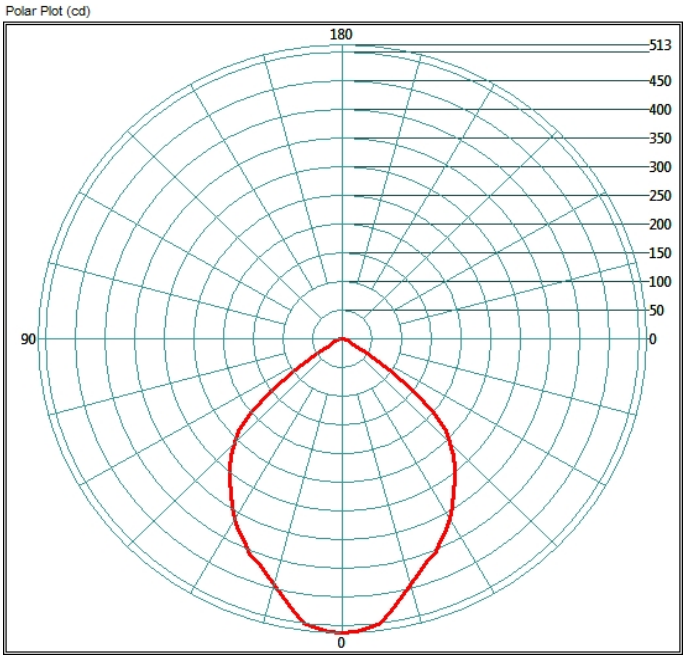
	L	W	H	Unit
Sample:	140	-	25	mm
Luminous Area:	40	-	0	mm

Picture of the tested sample:

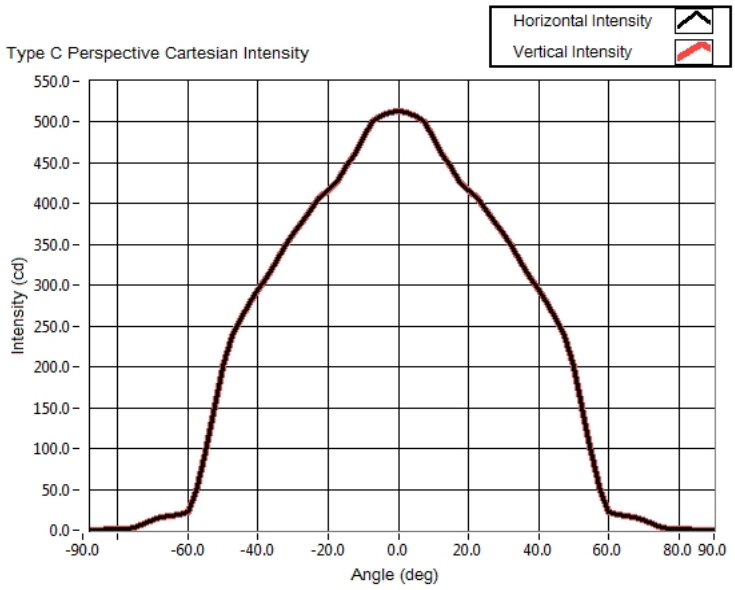
TEST EQUIPMENT

Global ID	Description	Model	Last Cal	Next Cal
77660	Goniophotometer system	LSI 6440T	2016/2/16	By evidence
77594	Digital power meter	Yokogawa WT210	2015/9/29	2016/9/28
77598	OMEGA MDSi8	OMEGA MDSi8	2016/7/25	2017/7/28
77616	AC PSU	ELGAR CW 1251	Reference	Reference
77676	Integrating sphere	Labsphere CSTM-LMS	2016/8/1	By evidence
77632	Spectroradiometer	Labsphere CDS-1100	2016/8/1	By evidence
77620	AC PSU	Chroma 61603	Reference	Reference
77591	Digital power meter	Yokogawa WT210	2015/9/29	2016/9/28
77599	Thermometer	OMEGA MDSi8	2016/7/25	2017/7/28
76506	Ambient temp recorder	OMEGA Iserver	2016/5/11	2017/4/28
76508	Ambient temp recorder	OMEGA Iserver	2016/5/11	2017/4/28
84677	Standard Lamp (Intensity)	STS STD-EHD	2014/4/15	2017/4/15
84678	Standard Lamp (Intensity)	STS STD-EHD	2014/4/15	2017/4/15
84679	Standard Lamp (Intensity)	STS STD-EHD	2014/4/15	2017/4/15
118106	Standard Lamp (Spectral radiant flux)	EYE LIGHTING SCL-1400	2015/3/5	2018/3/28
37602	Chronometer	QUANTUM Stopclock 5500	2016/4/22	2016/4/22

POLAR PLOT (cd)

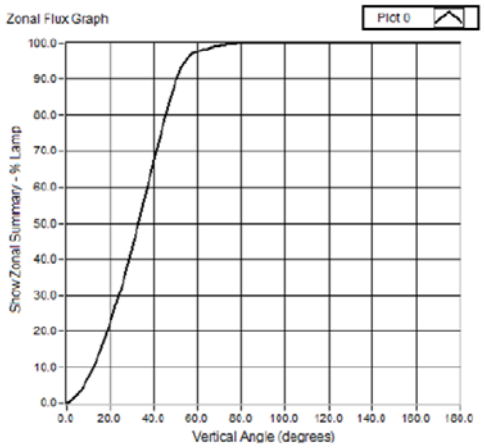


CARTESIAN DIAGRAM

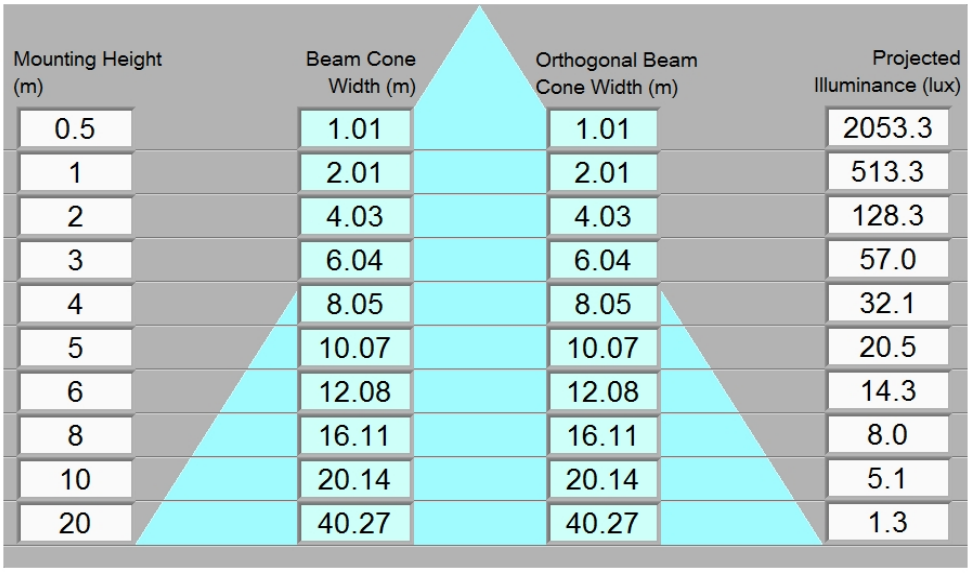


ZONAL LUMEN SUMMARY

	Summary Zonal Lumens	Zonal Lumens - % Lamp	Zonal Lumens - % Fixture
0 to 30	353.79	40.72	40.72
0 to 40	559.00	64.34	64.34
0 to 60	845.13	97.28	97.28
0 to 90	868.76	100.00	100.00
40 to 90	309.76	35.66	35.66
60 to 90	23.63	2.72	2.72
90 to 180	0.00	0.00	0.00
0 to 180	868.76	100.00	100.00



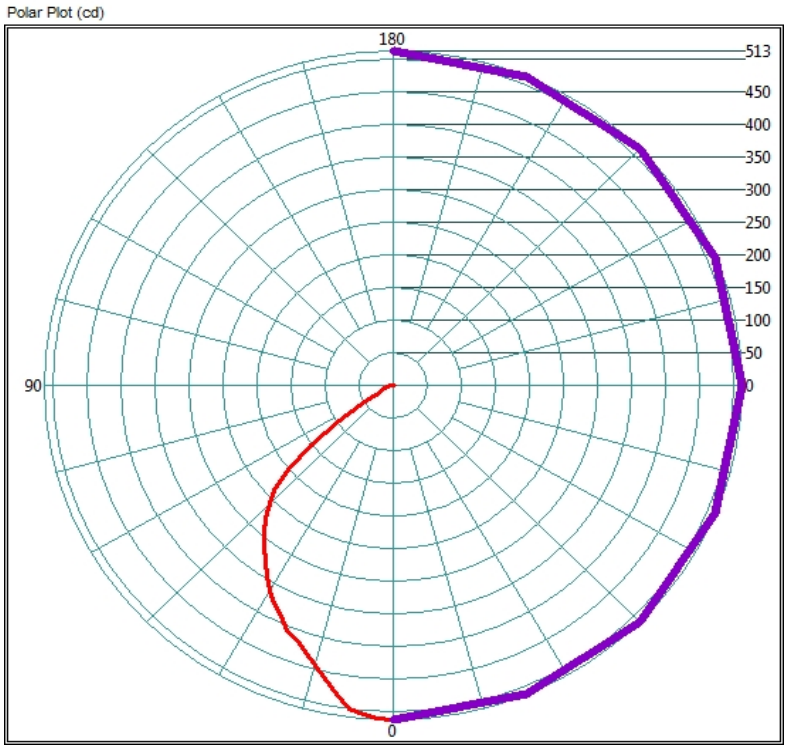
CONE DIAGRAM



Mounting Height (m)	Beam Cone Width (m)	Orthogonal Beam Cone Width (m)	Projected Illuminance (lux)
0.5	1.01	1.01	2053.3
1	2.01	2.01	513.3
2	4.03	4.03	128.3
3	6.04	6.04	57.0
4	8.05	8.05	32.1
5	10.07	10.07	20.5
6	12.08	12.08	14.3
8	16.11	16.11	8.0
10	20.14	20.14	5.1
20	40.27	40.27	1.3

Beam Angle: 90.39°

MAX CONE AND PLANE



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Candela Table (cd)

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5	225.0	247.5	270.0	292.5	315.0	337.5
0.0	513.3	513.3	513.3	513.3	513.3	513.3	513.3	513.3	513.3	513.3	513.3	513.3	513.3	513.3	513.3	513.3
2.5	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1
5.0	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5
7.5	500.4	500.4	500.4	500.4	500.4	500.4	500.4	500.4	500.4	500.4	500.4	500.4	500.4	500.4	500.4	500.4
10.0	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2
12.5	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4
15.0	445.2	445.2	445.2	445.2	445.2	445.2	445.2	445.2	445.2	445.2	445.2	445.2	445.2	445.2	445.2	445.2
17.5	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3
20.0	415.9	415.9	415.9	415.9	415.9	415.9	415.9	415.9	415.9	415.9	415.9	415.9	415.9	415.9	415.9	415.9
22.5	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4
25.0	392.1	392.1	392.1	392.1	392.1	392.1	392.1	392.1	392.1	392.1	392.1	392.1	392.1	392.1	392.1	392.1
27.5	377.4	377.4	377.4	377.4	377.4	377.4	377.4	377.4	377.4	377.4	377.4	377.4	377.4	377.4	377.4	377.4
30.0	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5
32.5	346.1	346.1	346.1	346.1	346.1	346.1	346.1	346.1	346.1	346.1	346.1	346.1	346.1	346.1	346.1	346.1
35.0	328.3	328.3	328.3	328.3	328.3	328.3	328.3	328.3	328.3	328.3	328.3	328.3	328.3	328.3	328.3	328.3
37.5	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4
40.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0
42.5	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0
45.0	258.2	258.2	258.2	258.2	258.2	258.2	258.2	258.2	258.2	258.2	258.2	258.2	258.2	258.2	258.2	258.2
47.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5
50.0	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9
52.5	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3
55.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
57.5	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
60.0	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
62.5	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
65.0	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
67.5	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
70.0	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
72.5	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
75.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
90.0	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	0.0
92.5	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
95.0	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	0.0
97.5	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
100.0	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	0.0
102.5	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
105.0	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	0.0
107.5	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
110.0	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	0.0
112.5	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
115.0	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	0.0
117.5	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
120.0	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	0.0
122.5	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
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	0.0
127.5	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	0.0
132.5	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

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Candela Table (cd)

	360.0
0.0	513.3
2.5	512.1
5.0	507.5
7.5	500.4
10.0	480.2
12.5	461.4
15.0	445.2
17.5	428.3
20.0	415.9
22.5	406.4
25.0	392.1
27.5	377.4
30.0	363.5
32.5	346.1
35.0	328.3
37.5	310.4
40.0	294.0
42.5	278.0
45.0	258.2
47.5	238.5
50.0	200.9
52.5	151.3
55.0	96.0
57.5	48.2
60.0	22.6
62.5	19.1
65.0	17.9
67.5	16.1
70.0	13.4
72.5	8.7
75.0	2.8
77.5	2.0
80.0	1.4
82.5	0.8
85.0	0.5
87.5	0.2
90.0	0.0
92.5	0.0
95.0	0.0
97.5	0.0
100.0	0.0
102.5	0.0
105.0	0.0
107.5	0.0
110.0	0.0
112.5	0.0
115.0	0.0
117.5	0.0
120.0	0.0
122.5	0.0
125.0	0.0
127.5	0.0
130.0	0.0
132.5	0.0

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Candela Table (cd)

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5	225.0	247.5	270.0	292.5	315.0	337.5
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	0.0
137.5	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	0.0
142.5	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	0.0
147.5	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	0.0
152.5	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	0.0
157.5	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	0.0
162.5	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	0.0
167.5	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	0.0
172.5	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	0.0
177.5	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	0.0

Test Report Number: 4787532324.2
Test Item Number: 432417

Candela Table (cd)

	360.0
135.0	0.0
137.5	0.0
140.0	0.0
142.5	0.0
145.0	0.0
147.5	0.0
150.0	0.0
152.5	0.0
155.0	0.0
157.5	0.0
160.0	0.0
162.5	0.0
165.0	0.0
167.5	0.0
170.0	0.0
172.5	0.0
175.0	0.0
177.5	0.0
180.0	0.0