



TESTING
NVLAP LAB CODE 200985-0

Project No.: 4788900254
Report No.: 4788900254-2
Issue Date: 2019-04-08

PHOTOMETRIC TEST REPORT

Testing Laboratory

UL International Italia S.r.l.
Via Delle Industrie 5&6, 20061 Carugate (MI) - Italy

Customer Company & Address

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

Manufacturer: ARTEMIDE SPA
Model Name: TOLOMEO 2 BRACCI LED
Model Number: TOLOMEO 2 BRACCI LED
Product Type: LED Luminaire
Product Description: LED luminaires equipped with 2 LED light sources powered on constant current.

LED Model: Cree XP-G 3000K
Power Supply Model: N/A

Electrical Ratings:

Input Voltage (V): 14 dc
Input Current (A): 1050
Input Power (W) 15
Input Frequency (Hz) N/A

Photometric Measurement: Absolute
Reference Standard: IES LM-79-08
Sample number: 2112437
Total report pages: 18

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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
Giovanni Di Martino
Project Handler

Name & Signatory

Approved By
Walter Parmiani
Reviewer

Name & Signatory



TEST RESULTS SUMMARY

Test Method: GonioPhotometer
Photometric Measurement: Absolute
Date of receipt test sample: 2019/2/28
Test Date: 2019/4/2

Environmental Conditions:

		Unit
Ambient Temperature:	25	°C
Relative Humidity	30	%

Electrical Conditions:

		Unit
Input Voltage:	14.1	V dc
Input Current:	1.05	A
Input Power:	14.805	W
Input frequency:	N/A	Hz
PF:	N/A	-
THDi:	0	%

Photometric results:

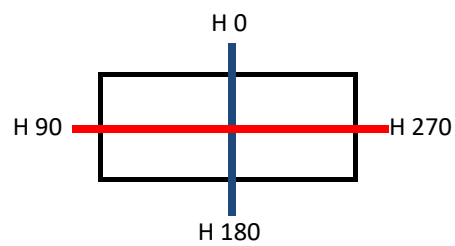
		Unit
Total Luminous Flux:	1181.00	Lm
System Efficacy:	79.8	Lm/W
Peak Intensity:	334.5	cd
Pre-burning time:	1.00	hrs
Stabilization time:	30.00	min
Test distance:	8.62	m



Picture of the tested sample:

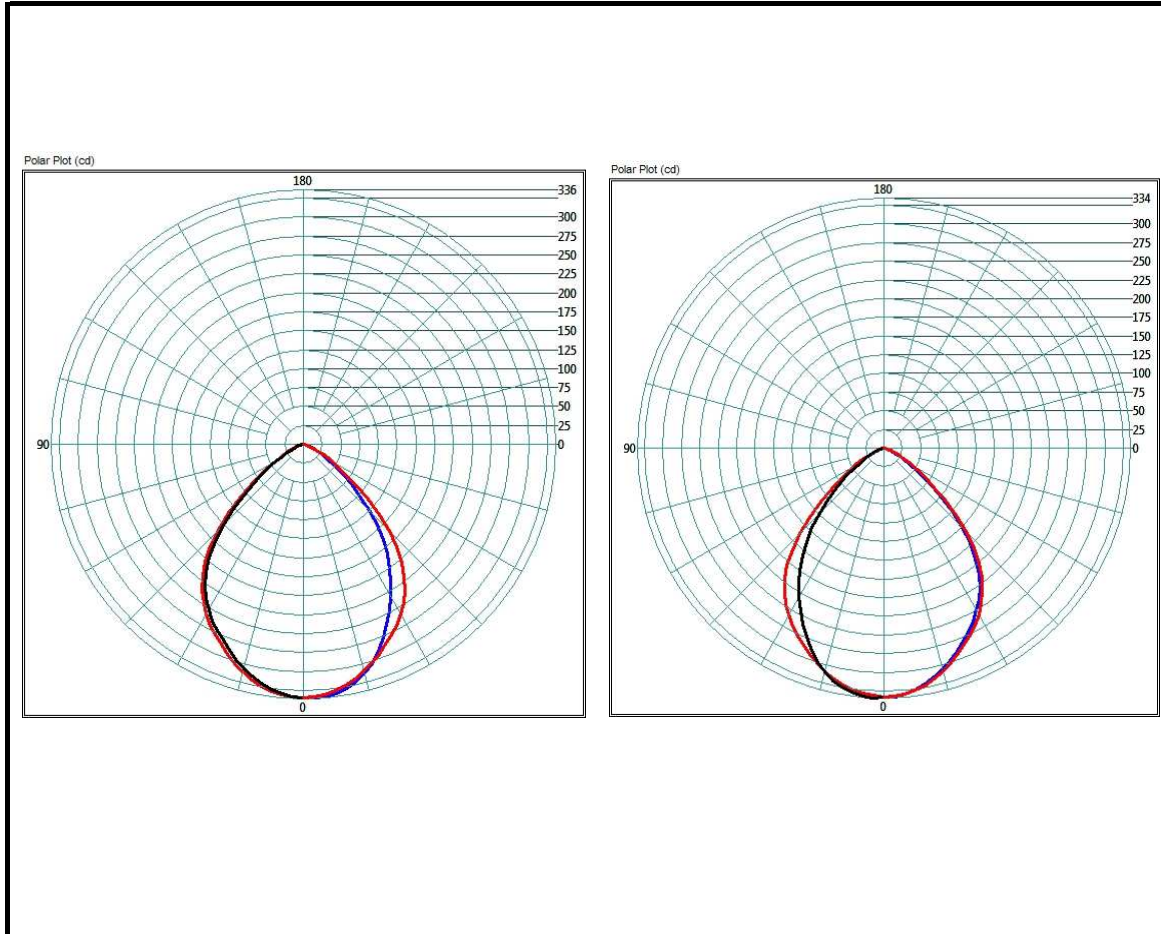


Coordinates system:





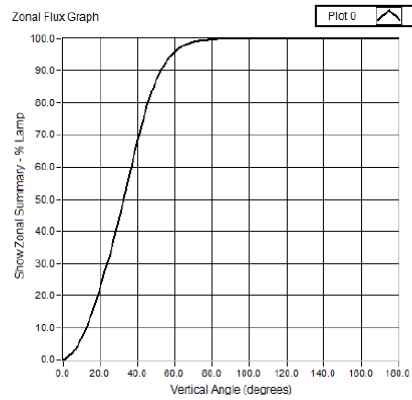
POLAR PLOT (cd)





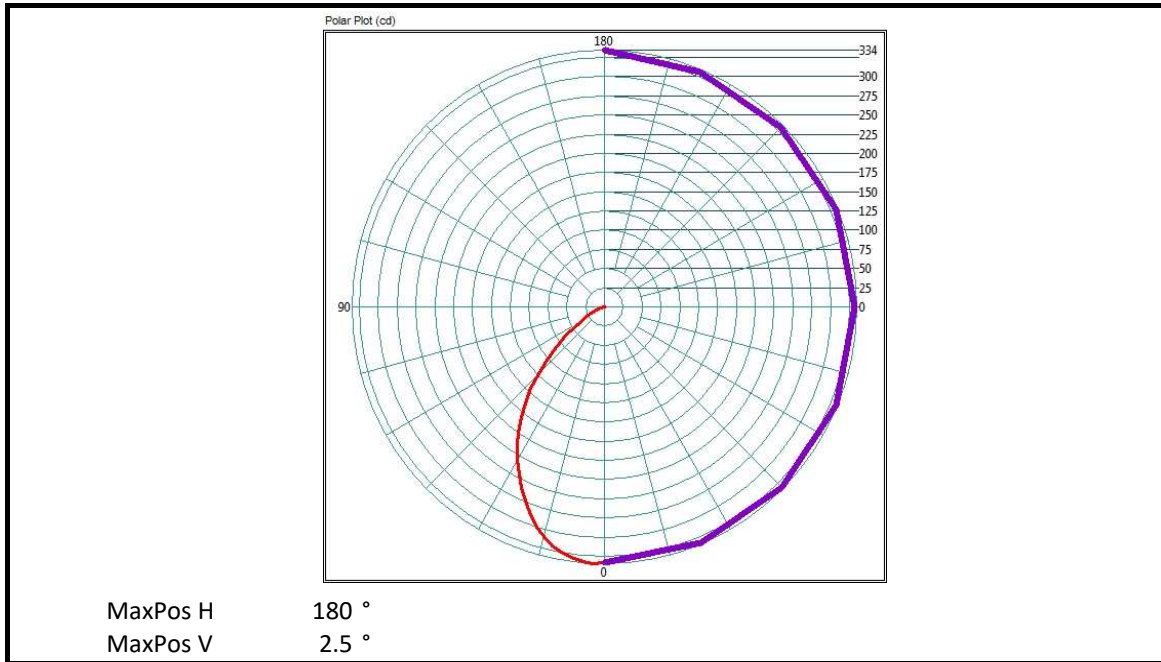
ZONAL LUMEN SUMMARY

	Summary Zonal Lumens	Zonal Lumens - % Lamp	Zonal Lumens - % Fixture
0 to 30	244.11	41.47	41.47
0 to 40	385.47	65.49	65.49
0 to 60	560.95	95.30	95.30
0 to 90	588.62	100.00	100.00
40 to 90	203.15	34.51	34.51
60 to 90	27.68	4.70	4.70
90 to 180	0.01	0.00	0.00
0 to 180	588.64	100.00	100.00





MAX CONE AND PLANE





TEST RESULTS SUMMARY

Test Method: Integrating Sphere
Photometric Measurement: Absolute
Test Date: 2019/4/3

Environmental Conditions:

		Unit
Ambient Temperature:	25	°C
Relative Humidity:	30	%

Electrical Conditions:

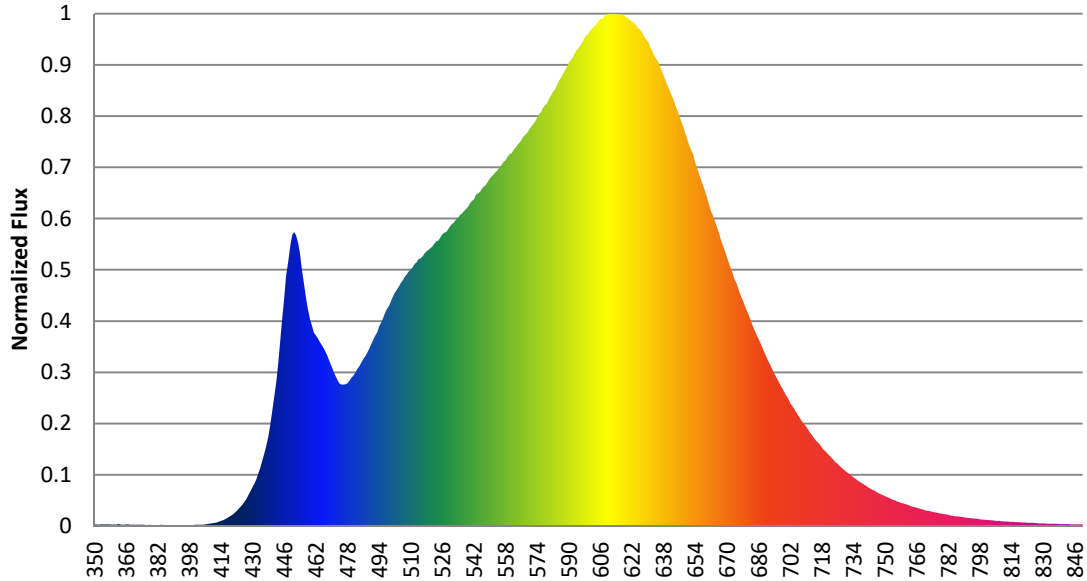
		Unit
Input Voltage:	14	V dc
Input Current:	1.05	A
Input Power:	14.8	W
Input Frequency:	N/A	Hz
Power Factor:	N/A	-

Photometric results:

		Unit
S/P Ratio	1.5	-
Chrom x	0.4259	-
Chrom y	0.4030	-
Chrom u	0.2439	-
Chrom v	0.3462	-
Duv	0.0012	-
Chrom u'	0.2439	-
Chrom v'	0.5193	-
Peak	612.5	nm
Dominant	581.0	nm
CCT	3186	K
Nominal CCT	3000	K
Ra	91.41	-
R9	48.61	-
TM-30 Rf	89.81	
TM-30 Rg	97.24	
SDCM	5	MacAdam Step
Pre-burning time:	1.00	hrs
Stabilization time:	30	min
Test configuration:	4π	-



Spectral Power Distribution

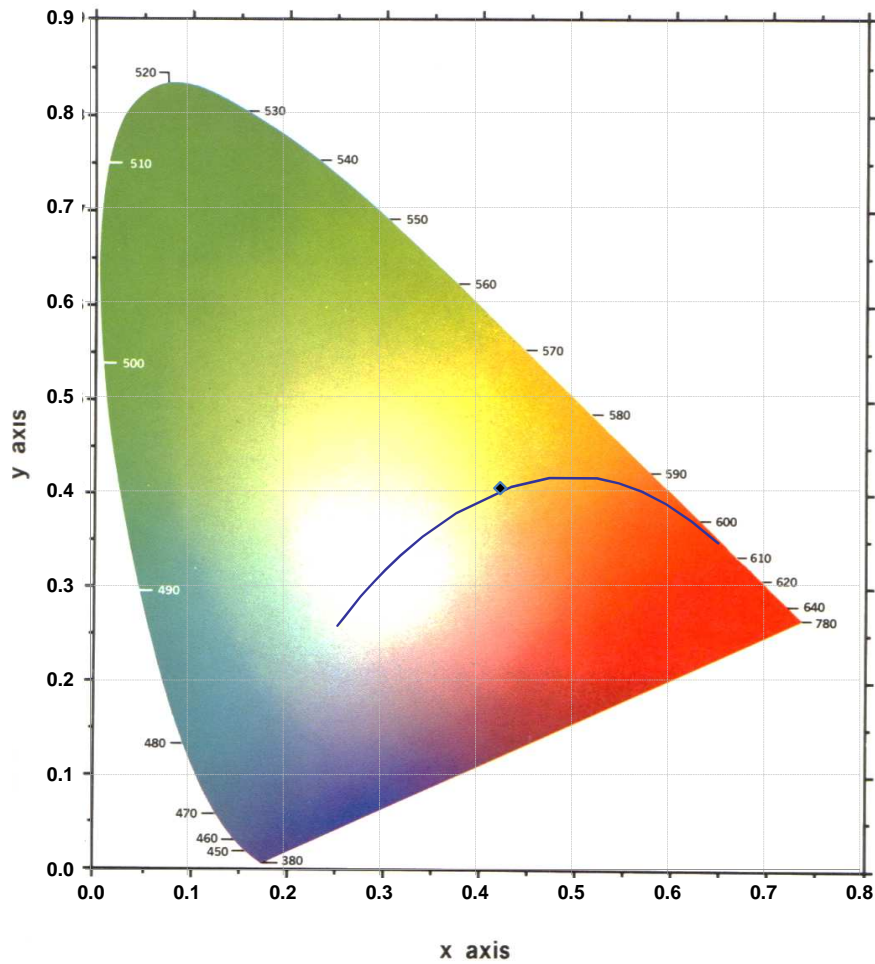


Color Rendering Index





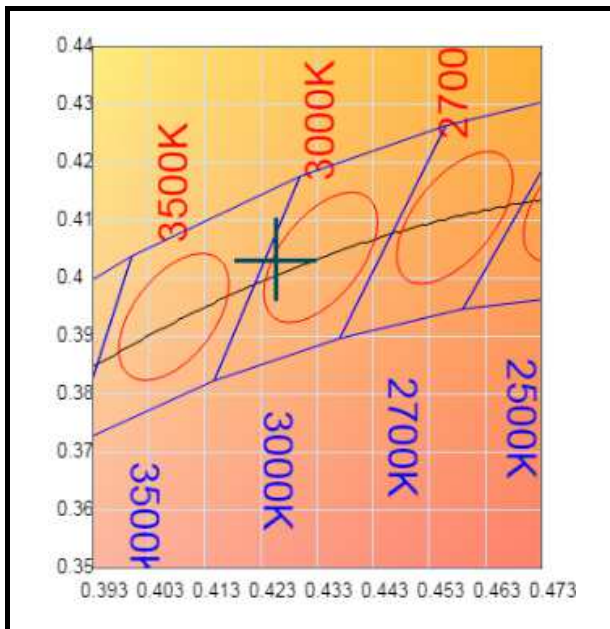
Chromaticity Diagram CIE 1931





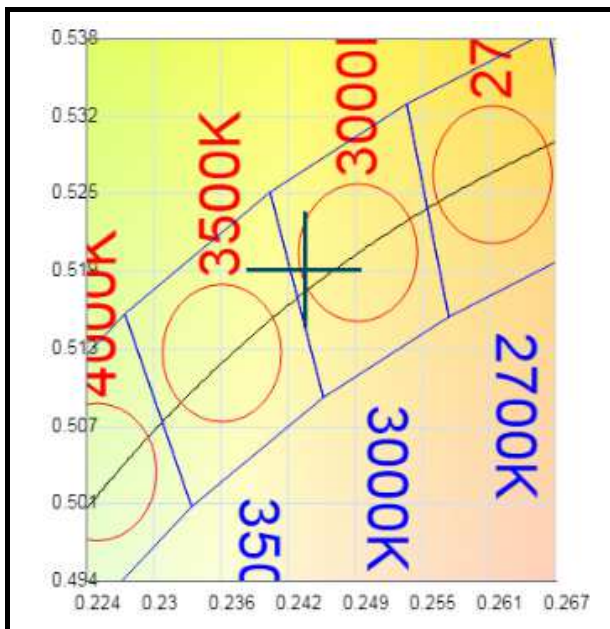
ANSI C78.377-2015

CCT Quadrangles (CIE 1931 x,y)



		Unit
x	0.4259	-
y	0.4030	-
u'	0.2439	-
v'	0.5193	-
Duv	0.0012	-
McAdam Ellipse	5	Step

CCT Quadrangles (CIE 1976 u',v')





SPECTRAL POWER TABLE (W/nm)

nm	W/nm	nm	W/nm	nm	W/nm	nm	W/nm
350	0.00004	393	0.00002	436	0.00171	479	0.00337
351	0.00004	394	0.00003	437	0.00189	480	0.00345
352	0.00003	395	0.00003	438	0.00209	481	0.00350
353	0.00004	396	0.00002	439	0.00237	482	0.00357
354	0.00004	397	0.00003	440	0.00268	483	0.00366
355	0.00004	398	0.00003	441	0.00300	484	0.00372
356	0.00004	399	0.00003	442	0.00338	485	0.00380
357	0.00004	400	0.00003	443	0.00382	486	0.00388
358	0.00004	401	0.00003	444	0.00432	487	0.00395
359	0.00003	402	0.00003	445	0.00483	488	0.00404
360	0.00004	403	0.00003	446	0.00528	489	0.00413
361	0.00004	404	0.00003	447	0.00582	490	0.00423
362	0.00004	405	0.00004	448	0.00616	491	0.00432
363	0.00004	406	0.00004	449	0.00651	492	0.00443
364	0.00003	407	0.00005	450	0.00676	493	0.00450
365	0.00003	408	0.00005	451	0.00684	494	0.00465
366	0.00004	409	0.00006	452	0.00677	495	0.00473
367	0.00004	410	0.00007	453	0.00658	496	0.00484
368	0.00003	411	0.00008	454	0.00631	497	0.00496
369	0.00003	412	0.00009	455	0.00595	498	0.00505
370	0.00003	413	0.00010	456	0.00564	499	0.00513
371	0.00003	414	0.00012	457	0.00533	500	0.00524
372	0.00003	415	0.00014	458	0.00506	501	0.00534
373	0.00003	416	0.00016	459	0.00481	502	0.00543
374	0.00003	417	0.00018	460	0.00467	503	0.00549
375	0.00003	418	0.00021	461	0.00450	504	0.00557
376	0.00003	419	0.00024	462	0.00444	505	0.00566
377	0.00002	420	0.00027	463	0.00437	506	0.00572
378	0.00003	421	0.00031	464	0.00429	507	0.00580
379	0.00003	422	0.00036	465	0.00421	508	0.00585
380	0.00003	423	0.00040	466	0.00413	509	0.00592
381	0.00003	424	0.00045	467	0.00405	510	0.00597
382	0.00002	425	0.00051	468	0.00395	511	0.00602
383	0.00003	426	0.00057	469	0.00383	512	0.00610
384	0.00003	427	0.00064	470	0.00370	513	0.00614
385	0.00003	428	0.00073	471	0.00359	514	0.00621
386	0.00002	429	0.00081	472	0.00349	515	0.00622
387	0.00003	430	0.00090	473	0.00340	516	0.00628
388	0.00003	431	0.00100	474	0.00332	517	0.00634
389	0.00003	432	0.00111	475	0.00329	518	0.00639
390	0.00003	433	0.00124	476	0.00330	519	0.00643
391	0.00002	434	0.00137	477	0.00330	520	0.00647
392	0.00003	435	0.00153	478	0.00332	521	0.00650



SPECTRAL POWER TABLE (W/nm)

nm	W/nm	nm	W/nm	nm	W/nm	nm	W/nm
522	0.00658	565	0.00891	608	0.01186	651	0.00885
523	0.00663	566	0.00897	609	0.01190	652	0.00873
524	0.00665	567	0.00906	610	0.01192	653	0.00863
525	0.00671	568	0.00911	611	0.01191	654	0.00845
526	0.00679	569	0.00915	612	0.01190	655	0.00832
527	0.00683	570	0.00922	613	0.01192	656	0.00818
528	0.00684	571	0.00929	614	0.01191	657	0.00805
529	0.00691	572	0.00934	615	0.01190	658	0.00791
530	0.00698	573	0.00942	616	0.01191	659	0.00778
531	0.00703	574	0.00951	617	0.01188	660	0.00764
532	0.00707	575	0.00959	618	0.01188	661	0.00747
533	0.00714	576	0.00963	619	0.01182	662	0.00733
534	0.00717	577	0.00973	620	0.01182	663	0.00722
535	0.00724	578	0.00979	621	0.01177	664	0.00707
536	0.00727	579	0.00983	622	0.01173	665	0.00695
537	0.00733	580	0.00994	623	0.01171	666	0.00682
538	0.00738	581	0.01002	624	0.01165	667	0.00665
539	0.00743	582	0.01011	625	0.01158	668	0.00653
540	0.00750	583	0.01015	626	0.01155	669	0.00639
541	0.00756	584	0.01026	627	0.01149	670	0.00625
542	0.00759	585	0.01036	628	0.01140	671	0.00611
543	0.00770	586	0.01043	629	0.01134	672	0.00600
544	0.00775	587	0.01051	630	0.01127	673	0.00587
545	0.00777	588	0.01060	631	0.01117	674	0.00574
546	0.00785	589	0.01067	632	0.01107	675	0.00562
547	0.00790	590	0.01078	633	0.01097	676	0.00548
548	0.00793	591	0.01084	634	0.01089	677	0.00536
549	0.00800	592	0.01090	635	0.01081	678	0.00526
550	0.00808	593	0.01099	636	0.01071	679	0.00514
551	0.00814	594	0.01107	637	0.01060	680	0.00503
552	0.00818	595	0.01113	638	0.01047	681	0.00491
553	0.00823	596	0.01119	639	0.01036	682	0.00479
554	0.00828	597	0.01127	640	0.01025	683	0.00466
555	0.00835	598	0.01136	641	0.01013	684	0.00456
556	0.00841	599	0.01142	642	0.01002	685	0.00446
557	0.00847	600	0.01146	643	0.00992	686	0.00435
558	0.00851	601	0.01154	644	0.00978	687	0.00425
559	0.00859	602	0.01157	645	0.00966	688	0.00414
560	0.00864	603	0.01163	646	0.00954	689	0.00404
561	0.00868	604	0.01168	647	0.00940	690	0.00393
562	0.00875	605	0.01174	648	0.00927	691	0.00384
563	0.00880	606	0.01180	649	0.00913	692	0.00374
564	0.00887	607	0.01180	650	0.00900	693	0.00363



SPECTRAL POWER TABLE (W/nm)

nm	W/nm	nm	W/nm	nm	W/nm	nm	W/nm
694	0.00355	737	0.00104	780	0.00028	823	0.00008
695	0.00347	738	0.00101	781	0.00027	824	0.00007
696	0.00338	739	0.00098	782	0.00026	825	0.00007
697	0.00329	740	0.00095	783	0.00025	826	0.00007
698	0.00320	741	0.00092	784	0.00024	827	0.00007
699	0.00311	742	0.00089	785	0.00024	828	0.00007
700	0.00304	743	0.00086	786	0.00023	829	0.00006
701	0.00296	744	0.00084	787	0.00022	830	0.00006
702	0.00287	745	0.00081	788	0.00022	831	0.00006
703	0.00280	746	0.00079	789	0.00021	832	0.00006
704	0.00273	747	0.00076	790	0.00020	833	0.00006
705	0.00265	748	0.00074	791	0.00020	834	0.00006
706	0.00258	749	0.00072	792	0.00019	835	0.00005
707	0.00251	750	0.00070	793	0.00019	836	0.00005
708	0.00243	751	0.00068	794	0.00018	837	0.00005
709	0.00237	752	0.00066	795	0.00017	838	0.00005
710	0.00231	753	0.00063	796	0.00017	839	0.00005
711	0.00225	754	0.00062	797	0.00016	840	0.00005
712	0.00218	755	0.00060	798	0.00016	841	0.00005
713	0.00212	756	0.00058	799	0.00015	842	0.00005
714	0.00205	757	0.00056	800	0.00015	843	0.00004
715	0.00199	758	0.00054	801	0.00014	844	0.00004
716	0.00194	759	0.00053	802	0.00014	845	0.00004
717	0.00190	760	0.00051	803	0.00014	846	0.00004
718	0.00183	761	0.00050	804	0.00013	847	0.00004
719	0.00178	762	0.00048	805	0.00013	848	0.00004
720	0.00173	763	0.00047	806	0.00013	849	0.00004
721	0.00168	764	0.00045	807	0.00012	850	0.00004
722	0.00163	765	0.00044	808	0.00012		
723	0.00159	766	0.00043	809	0.00012		
724	0.00153	767	0.00041	810	0.00011		
725	0.00148	768	0.00040	811	0.00011		
726	0.00145	769	0.00039	812	0.00010		
727	0.00140	770	0.00038	813	0.00010		
728	0.00136	771	0.00036	814	0.00010		
729	0.00132	772	0.00035	815	0.00010		
730	0.00128	773	0.00034	816	0.00009		
731	0.00124	774	0.00033	817	0.00009		
732	0.00121	775	0.00032	818	0.00009		
733	0.00117	776	0.00031	819	0.00009		
734	0.00114	777	0.00030	820	0.00008		
735	0.00110	778	0.00029	821	0.00008		
736	0.00107	779	0.00028	822	0.00008		



INTENSITY TABLE (cd)

	0	22.5	45	67.5	90	112.5	135	157.5
0	333.2	333.2	333.2	333.2	333.2	333.2	333.2	333.2
2.5	333.2	332.7	332.6	332.4	331.1	332.2	331.7	331.8
5	330.3	330.1	329.9	330.4	329.3	330.4	330.2	330.8
7.5	326.2	326.1	325.7	326.7	326.1	327.7	327.2	327.3
10	320.5	320.3	319.8	321.9	321.4	323.1	322.6	323.3
12.5	314.0	313.7	313.8	315.4	315.6	318.3	317.2	317.4
15	306.6	306.4	306.1	308.6	309.1	311.6	311.2	310.8
17.5	298.0	298.1	297.8	300.6	301.5	304.4	303.9	302.8
20	288.9	288.8	288.7	292.0	293.7	296.5	295.7	293.7
22.5	279.7	279.5	279.7	283.6	285.1	287.3	287.2	283.9
25	270.9	270.8	271.0	274.8	276.9	277.7	279.0	273.9
27.5	261.8	261.3	262.3	266.2	269.0	269.5	270.2	263.5
30	250.0	250.4	251.3	255.2	258.2	259.6	260.1	252.3
32.5	239.6	238.3	240.1	243.6	247.5	248.4	248.9	240.4
35	227.3	225.6	227.2	231.1	235.2	236.4	236.9	227.3
37.5	212.0	210.5	212.8	216.7	221.1	222.3	222.9	212.4
40	193.4	193.2	195.7	199.4	204.3	205.5	205.7	195.0
42.5	172.4	172.6	175.5	178.8	183.9	186.3	185.5	174.8
45	150.0	148.9	152.1	155.9	161.0	163.4	162.3	152.2
47.5	125.4	124.2	127.3	131.4	136.7	138.8	137.5	128.4
50	100.2	100.3	103.1	107.4	112.3	114.2	113.4	105.5
52.5	78.0	78.8	81.7	85.2	89.6	92.2	91.0	84.1
55	61.5	61.7	64.4	66.5	70.4	72.7	71.3	65.9
57.5	47.1	46.6	49.0	51.8	55.5	57.4	55.6	51.7
60	34.7	34.5	36.3	39.0	41.8	43.4	41.9	39.1
62.5	24.9	25.1	26.3	28.5	30.5	31.9	30.8	28.7
65	17.9	17.9	18.7	20.2	21.6	22.8	21.9	20.2
67.5	12.7	12.6	13.0	13.8	15.0	15.7	15.0	13.8
70	9.1	9.0	9.1	9.4	10.2	10.7	10.1	9.5
72.5	6.7	6.6	6.4	6.7	7.3	7.6	7.3	6.8
75	4.7	4.6	4.6	5.0	5.3	5.6	5.3	5.0
77.5	3.4	3.4	3.4	3.6	3.9	4.1	4.0	3.6
80	2.6	2.5	2.5	2.6	2.9	3.0	2.9	2.7
82.5	1.9	1.9	1.9	1.9	2.1	2.2	2.1	2.0
85	1.4	1.4	1.4	1.4	1.5	1.6	1.6	1.5
87.5	0.9	0.9	0.9	1.0	1.0	1.1	1.1	1.0
90	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.3
92.5	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
97.5	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
102.5	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



INTENSITY TABLE (cd)

	0	22.5	45	67.5	90	112.5	135	157.5
107.5	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
112.5	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
117.5	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
122.5	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
127.5	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
132.5	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
137.5	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
142.5	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
147.5	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
152.5	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
157.5	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
162.5	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
167.5	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
172.5	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
177.5	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



INTENSITY TABLE (cd)

	180	202.5	225	247.5	270	292.5	315	337.5
0.0	333.2	333.2	333.2	333.2	333.2	333.2	333.2	333.2
2.5	334.5	333.9	334.3	333.0	331.8	332.0	331.2	331.8
5.0	332.8	332.3	333.2	332.1	330.2	329.7	329.0	329.4
7.5	329.5	328.6	329.7	328.5	327.0	326.1	325.1	325.1
10.0	325.0	323.9	325.0	324.0	322.4	321.4	319.8	319.5
12.5	318.7	317.7	319.0	317.9	316.2	315.0	313.3	313.1
15.0	310.3	310.0	311.9	310.7	309.0	307.5	305.9	305.4
17.5	300.5	301.1	303.8	302.4	301.2	299.4	297.6	297.1
20.0	287.4	290.7	294.9	293.7	292.5	290.6	288.8	288.1
22.5	273.7	280.0	286.2	284.7	283.7	282.0	280.0	279.4
25.0	259.4	269.0	277.0	276.3	275.5	274.0	271.9	270.6
27.5	245.0	257.4	267.2	267.4	267.0	265.5	263.2	262.0
30.0	230.2	245.2	256.4	256.5	257.1	255.0	252.5	250.6
32.5	215.0	232.1	244.7	244.9	245.3	243.2	240.6	238.5
35.0	198.7	218.2	231.6	232.2	232.7	230.9	228.2	225.4
37.5	181.7	202.9	216.8	217.6	218.4	216.3	213.5	210.1
40.0	163.8	185.2	199.2	200.2	201.8	199.2	196.1	192.1
42.5	144.3	164.8	178.8	179.9	181.6	178.6	175.3	170.8
45.0	123.8	142.3	155.1	156.6	157.8	155.0	151.5	146.9
47.5	103.6	119.2	130.0	131.9	132.8	130.3	126.6	121.6
50.0	84.7	96.8	105.8	107.0	108.8	106.2	102.7	97.5
52.5	67.8	76.6	83.5	84.8	86.4	84.1	81.3	76.3
55.0	54.2	60.6	64.7	66.1	67.3	65.6	63.9	59.8
57.5	42.1	46.6	49.9	51.4	52.4	51.6	49.0	45.4
60.0	32.2	35.0	37.3	38.3	39.3	39.1	36.9	33.7
62.5	23.9	25.5	27.1	27.9	28.9	28.8	27.2	24.6
65.0	17.1	18.0	18.9	19.6	20.5	20.5	19.5	17.6
67.5	11.9	12.4	12.8	13.4	14.1	14.2	13.6	12.4
70.0	8.5	8.5	8.7	9.0	9.6	10.0	9.5	8.9
72.5	6.2	6.0	6.1	6.4	6.9	7.2	6.7	6.4
75.0	4.5	4.4	4.4	4.6	5.0	5.2	5.0	4.5
77.5	3.3	3.2	3.2	3.4	3.6	3.8	3.6	3.3
80.0	2.4	2.4	2.3	2.4	2.5	2.7	2.6	2.4
82.5	1.8	1.7	1.7	1.7	1.8	1.9	1.8	1.7
85.0	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.2
87.5	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7
90.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1
92.5	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
97.5	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
102.5	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



INTENSITY TABLE (cd)

	180	202.5	225	247.5	270	292.5	315	337.5
107.5	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
112.5	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
117.5	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
122.5	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
127.5	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
132.5	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
137.5	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
142.5	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
147.5	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
152.5	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
157.5	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
162.5	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
167.5	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
172.5	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
177.5	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



INTENSITY TABLE (cd)

	360		360
0.0	333.2	102.5	0.0
2.5	333.2	105	0.0
5.0	330.3	107.5	0.0
7.5	326.2	110	0.0
10.0	320.5	112.5	0.0
12.5	314.0	115	0.0
15.0	306.6	117.5	0.0
17.5	298.0	120	0.0
20.0	288.9	122.5	0.0
22.5	279.7	125	0.0
25.0	270.9	127.5	0.0
27.5	261.8	130	0.0
30.0	250.0	132.5	0.0
32.5	239.6	135	0.0
35.0	227.3	137.5	0.0
37.5	212.0	140	0.0
40.0	193.4	142.5	0.0
42.5	172.4	145	0.0
45.0	150.0	147.5	0.0
47.5	125.4	150	0.0
50.0	100.2	152.5	0.0
52.5	78.0	155	0.0
55.0	61.5	157.5	0.0
57.5	47.1	160	0.0
60.0	34.7	162.5	0.0
62.5	24.9	165	0.0
65.0	17.9	167.5	0.0
67.5	12.7	170	0.0
70.0	9.1	172.5	0.0
72.5	6.7	175	0.0
75.0	4.7	177.5	0.0
77.5	3.4	180	0.0
80.0	2.6		
82.5	1.9		
85.0	1.4		
87.5	0.9		
90.0	0.1		
92.5	0.0		
95.0	0.0		
97.5	0.0		
100.0	0.0		

END OF TEST REPORT