



PHOTOMETRIC TEST REPORT

Customer Company & Address

NERI SPA
SS EMILIA 1622 LONGIANO, FC, 47020 IT

Testing Laboratory: UL International Italia s.r.l.
Via Delle Industrie 5&6 - 20061 Carugate (MI) - Italy

Manufacturer: NERI SPA
Model Name: MILOS
Model Number: MILOS
Product Type: LED LUMINAIRE
Product Description: LED Luminaire equipped with 32 LEDs and integrated electronic control gear. The luminaire optic is composed by secondary lens and transparent flat glass cover.

LED model: CREE XP-G3 4000K
Power Supply Model: Philips Xi LP 150W 0.5-1.5A SI 230V S240 sXt
Electrical Ratings:
Input Voltage (V): 220-240
Input Current (A): -
Input Power (W): 110
Input Frequency (Hz): 50/60

Reference Standard: IES LM-79-08 sec. 9.1, 11.0, 12.1.
Sample number: 1342726
Total report pages: 9

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Prepared By
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Name & Signatory

Approved By
Walter Parmiani

Name & Signatory



TEST RESULTS SUMMARY

Test Method: Integrating Sphere
Photometric Measurement: Absolute
Test Date: 2018/3/26
Correction Factors: Self-absorption

Environmental Conditions:

		Unit
Ambient Temperature:	25.8	°C
Relative Humidity:	28	%

Electrical Conditions:

		Unit
Input Voltage:	230	V
Input Current:	0.481	A
Input Power:	108.7	W
Input Frequency:	50	Hz
Power Factor:	0.97	

Photometric results:

		Unit
Luminous Flux	11930	lm
Chrom x	0.3846	
Chrom y	0.3858	
Chrom u	0.2242	
Chrom v	0.3374	
Duv	0.0030	
Chrom u'	0.2242	
Chrom v'	0.5061	
Peak	442.9	nm
Dominant	577.8	nm
CCT	3954	K
CRI	69.93	
R9	-32.5	
Pre-burning time:	2.00	hrs
Stabilization time:	60	min
Test configuration:	4pi	
Nominal CCT:	4000	K
Luminous Efficacy:	109.75	lm/W

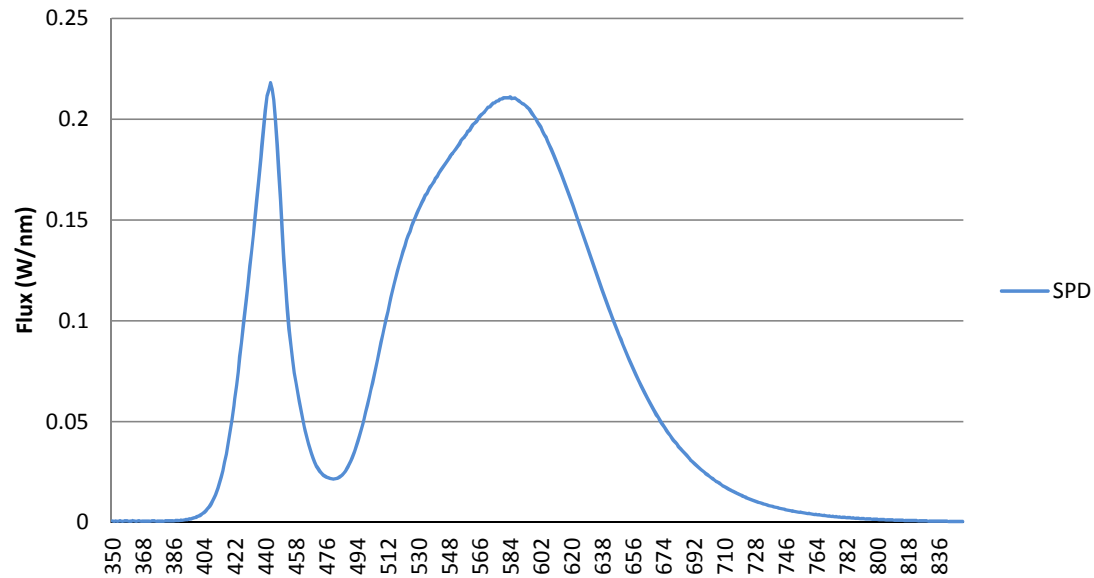


Expanded color results:

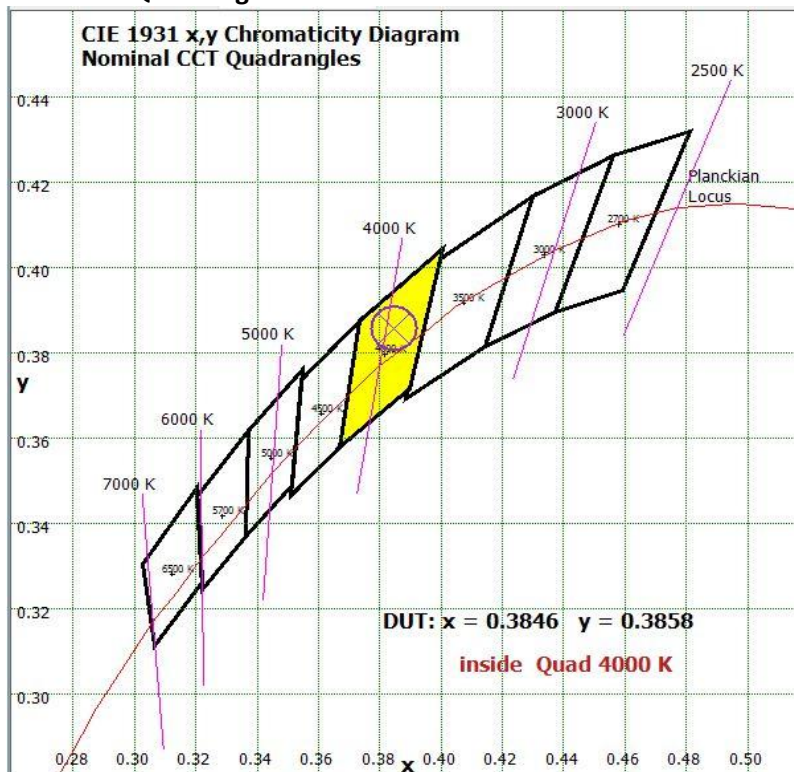
		Unit
Ra	69.9	
R#1	67.3	
R#2	75.1	
R#3	82.2	
R#4	70.8	
R#5	67.1	
R#6	65.9	
R#7	78.9	
R#8	52.1	
R#9	-32.5	
R#10	42.0	
R#11	67.4	
R#12	42.4	
R#13	67.7	
R#14	89.7	



Spectral Power Distribution

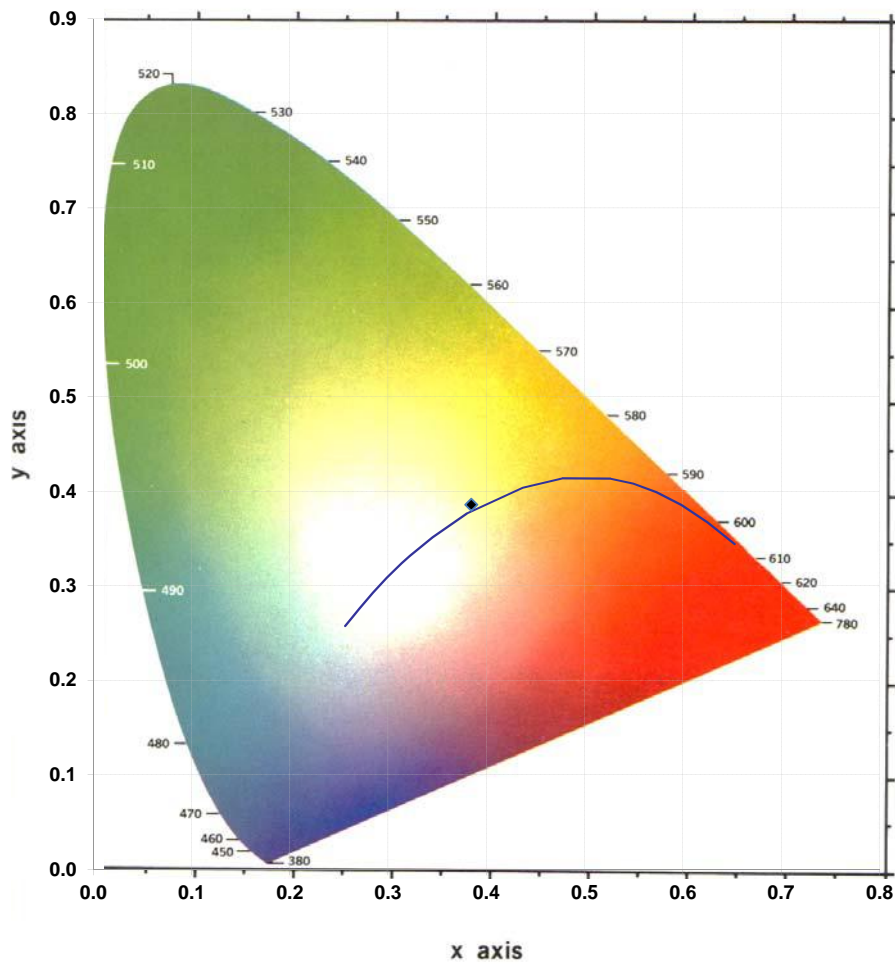


ANSI CCT Quadrangles





Chromaticity Diagram CIE 1931





PICTURES

Sample





SPECTRAL POWER DISTRIBUTION TABLE

nm	W/nm	nm	W/nm	nm	W/nm	nm	W/nm
350	7.20E-04	392	1.22E-03	434	1.51E-01	476	2.26E-02
351	6.61E-04	393	1.35E-03	435	1.60E-01	477	2.21E-02
352	8.25E-04	394	1.50E-03	436	1.69E-01	478	2.19E-02
353	6.76E-04	395	1.73E-03	437	1.77E-01	479	2.17E-02
354	7.32E-04	396	1.82E-03	438	1.87E-01	480	2.17E-02
355	8.04E-04	397	2.01E-03	439	1.96E-01	481	2.17E-02
356	5.52E-04	398	2.33E-03	440	2.04E-01	482	2.19E-02
357	7.47E-04	399	2.59E-03	441	2.12E-01	483	2.23E-02
358	7.19E-04	400	2.93E-03	442	2.15E-01	484	2.28E-02
359	8.16E-04	401	3.32E-03	443	2.18E-01	485	2.35E-02
360	6.34E-04	402	3.84E-03	444	2.15E-01	486	2.43E-02
361	5.85E-04	403	4.44E-03	445	2.10E-01	487	2.55E-02
362	8.79E-04	404	5.09E-03	446	1.99E-01	488	2.69E-02
363	7.93E-04	405	5.89E-03	447	1.88E-01	489	2.84E-02
364	7.04E-04	406	6.84E-03	448	1.74E-01	490	3.03E-02
365	8.03E-04	407	7.93E-03	449	1.60E-01	491	3.21E-02
366	7.39E-04	408	9.26E-03	450	1.44E-01	492	3.43E-02
367	6.64E-04	409	1.09E-02	451	1.30E-01	493	3.67E-02
368	6.57E-04	410	1.24E-02	452	1.17E-01	494	3.94E-02
369	6.89E-04	411	1.44E-02	453	1.05E-01	495	4.19E-02
370	6.95E-04	412	1.67E-02	454	9.58E-02	496	4.50E-02
371	6.99E-04	413	1.95E-02	455	8.75E-02	497	4.80E-02
372	5.89E-04	414	2.25E-02	456	8.06E-02	498	5.12E-02
373	7.41E-04	415	2.57E-02	457	7.43E-02	499	5.47E-02
374	7.71E-04	416	2.98E-02	458	6.92E-02	500	5.83E-02
375	7.34E-04	417	3.40E-02	459	6.43E-02	501	6.18E-02
376	6.75E-04	418	3.88E-02	460	5.97E-02	502	6.57E-02
377	6.16E-04	419	4.38E-02	461	5.53E-02	503	6.93E-02
378	6.76E-04	420	4.92E-02	462	5.13E-02	504	7.32E-02
379	6.32E-04	421	5.51E-02	463	4.72E-02	505	7.71E-02
380	6.98E-04	422	6.13E-02	464	4.35E-02	506	8.11E-02
381	7.59E-04	423	6.82E-02	465	4.03E-02	507	8.53E-02
382	7.13E-04	424	7.46E-02	466	3.70E-02	508	8.94E-02
383	7.45E-04	425	8.22E-02	467	3.43E-02	509	9.32E-02
384	7.61E-04	426	8.90E-02	468	3.18E-02	510	9.72E-02
385	8.14E-04	427	9.72E-02	469	2.99E-02	511	1.01E-01
386	8.39E-04	428	1.05E-01	470	2.80E-02	512	1.05E-01
387	9.35E-04	429	1.12E-01	471	2.66E-02	513	1.09E-01
388	9.53E-04	430	1.20E-01	472	2.53E-02	514	1.12E-01
389	9.93E-04	431	1.27E-01	473	2.45E-02	515	1.16E-01
390	1.04E-03	432	1.34E-01	474	2.36E-02	516	1.19E-01
391	1.17E-03	433	1.43E-01	475	2.30E-02	517	1.23E-01



nm	W/nm	nm	W/nm	nm	W/nm	nm	W/nm
518	1.26E-01	562	1.97E-01	606	1.89E-01	650	8.85E-02
519	1.29E-01	563	1.98E-01	607	1.87E-01	651	8.66E-02
520	1.32E-01	564	1.99E-01	608	1.85E-01	652	8.47E-02
521	1.35E-01	565	2.00E-01	609	1.83E-01	653	8.27E-02
522	1.37E-01	566	2.02E-01	610	1.82E-01	654	8.08E-02
523	1.40E-01	567	2.02E-01	611	1.79E-01	655	7.88E-02
524	1.42E-01	568	2.03E-01	612	1.77E-01	656	7.68E-02
525	1.44E-01	569	2.04E-01	613	1.75E-01	657	7.49E-02
526	1.47E-01	570	2.05E-01	614	1.73E-01	658	7.30E-02
527	1.49E-01	571	2.06E-01	615	1.71E-01	659	7.13E-02
528	1.51E-01	572	2.06E-01	616	1.68E-01	660	6.95E-02
529	1.53E-01	573	2.07E-01	617	1.66E-01	661	6.78E-02
530	1.55E-01	574	2.08E-01	618	1.64E-01	662	6.61E-02
531	1.57E-01	575	2.08E-01	619	1.62E-01	663	6.43E-02
532	1.59E-01	576	2.09E-01	620	1.59E-01	664	6.28E-02
533	1.60E-01	577	2.09E-01	621	1.57E-01	665	6.11E-02
534	1.62E-01	578	2.10E-01	622	1.54E-01	666	5.95E-02
535	1.63E-01	579	2.10E-01	623	1.52E-01	667	5.81E-02
536	1.65E-01	580	2.11E-01	624	1.49E-01	668	5.64E-02
537	1.66E-01	581	2.11E-01	625	1.47E-01	669	5.48E-02
538	1.68E-01	582	2.11E-01	626	1.45E-01	670	5.34E-02
539	1.69E-01	583	2.11E-01	627	1.42E-01	671	5.21E-02
540	1.71E-01	584	2.11E-01	628	1.39E-01	672	5.07E-02
541	1.72E-01	585	2.10E-01	629	1.37E-01	673	4.93E-02
542	1.73E-01	586	2.10E-01	630	1.35E-01	674	4.81E-02
543	1.75E-01	587	2.10E-01	631	1.32E-01	675	4.68E-02
544	1.76E-01	588	2.10E-01	632	1.30E-01	676	4.55E-02
545	1.77E-01	589	2.09E-01	633	1.27E-01	677	4.44E-02
546	1.78E-01	590	2.09E-01	634	1.25E-01	678	4.32E-02
547	1.80E-01	591	2.08E-01	635	1.23E-01	679	4.21E-02
548	1.81E-01	592	2.07E-01	636	1.20E-01	680	4.09E-02
549	1.82E-01	593	2.07E-01	637	1.18E-01	681	3.98E-02
550	1.83E-01	594	2.06E-01	638	1.16E-01	682	3.88E-02
551	1.84E-01	595	2.05E-01	639	1.13E-01	683	3.77E-02
552	1.85E-01	596	2.04E-01	640	1.11E-01	684	3.67E-02
553	1.86E-01	597	2.03E-01	641	1.08E-01	685	3.57E-02
554	1.88E-01	598	2.01E-01	642	1.06E-01	686	3.49E-02
555	1.89E-01	599	2.00E-01	643	1.04E-01	687	3.39E-02
556	1.90E-01	600	1.99E-01	644	1.02E-01	688	3.30E-02
557	1.91E-01	601	1.97E-01	645	9.95E-02	689	3.21E-02
558	1.92E-01	602	1.96E-01	646	9.74E-02	690	3.12E-02
559	1.94E-01	603	1.94E-01	647	9.50E-02	691	3.03E-02
560	1.95E-01	604	1.92E-01	648	9.29E-02	692	2.96E-02
561	1.96E-01	605	1.91E-01	649	9.09E-02	693	2.87E-02



nm	W/nm	nm	W/nm	nm	W/nm	nm	W/nm
694	2.79E-02	738	8.04E-03	782	2.43E-03	826	7.89E-04
695	2.71E-02	739	7.84E-03	783	2.36E-03	827	7.62E-04
696	2.64E-02	740	7.59E-03	784	2.30E-03	828	7.55E-04
697	2.57E-02	741	7.41E-03	785	2.24E-03	829	7.35E-04
698	2.50E-02	742	7.18E-03	786	2.18E-03	830	7.01E-04
699	2.43E-02	743	7.01E-03	787	2.10E-03	831	6.92E-04
700	2.36E-02	744	6.82E-03	788	2.06E-03	832	6.76E-04
701	2.30E-02	745	6.58E-03	789	2.02E-03	833	6.38E-04
702	2.23E-02	746	6.41E-03	790	1.96E-03	834	6.62E-04
703	2.17E-02	747	6.25E-03	791	1.92E-03	835	6.60E-04
704	2.11E-02	748	6.08E-03	792	1.85E-03	836	6.40E-04
705	2.05E-02	749	5.94E-03	793	1.79E-03	837	6.01E-04
706	2.00E-02	750	5.78E-03	794	1.74E-03	838	5.70E-04
707	1.95E-02	751	5.61E-03	795	1.74E-03	839	5.83E-04
708	1.89E-02	752	5.46E-03	796	1.68E-03	840	5.64E-04
709	1.83E-02	753	5.30E-03	797	1.61E-03	841	5.79E-04
710	1.78E-02	754	5.15E-03	798	1.59E-03	842	5.47E-04
711	1.74E-02	755	5.05E-03	799	1.54E-03	843	5.32E-04
712	1.69E-02	756	4.90E-03	800	1.51E-03	844	5.24E-04
713	1.64E-02	757	4.77E-03	801	1.47E-03	845	5.14E-04
714	1.59E-02	758	4.61E-03	802	1.43E-03	846	5.09E-04
715	1.55E-02	759	4.52E-03	803	1.40E-03	847	4.89E-04
716	1.50E-02	760	4.37E-03	804	1.36E-03	848	4.67E-04
717	1.45E-02	761	4.26E-03	805	1.31E-03	849	4.88E-04
718	1.42E-02	762	4.15E-03	806	1.30E-03	850	4.42E-04
719	1.38E-02	763	4.03E-03	807	1.26E-03		
720	1.34E-02	764	3.96E-03	808	1.24E-03		
721	1.30E-02	765	3.84E-03	809	1.19E-03		
722	1.26E-02	766	3.74E-03	810	1.17E-03		
723	1.23E-02	767	3.61E-03	811	1.14E-03		
724	1.20E-02	768	3.55E-03	812	1.10E-03		
725	1.16E-02	769	3.44E-03	813	1.09E-03		
726	1.13E-02	770	3.34E-03	814	1.05E-03		
727	1.10E-02	771	3.24E-03	815	1.05E-03		
728	1.07E-02	772	3.17E-03	816	9.93E-04		
729	1.04E-02	773	3.06E-03	817	9.93E-04		
730	1.01E-02	774	3.00E-03	818	9.59E-04		
731	9.79E-03	775	2.90E-03	819	9.26E-04		
732	9.52E-03	776	2.83E-03	820	9.01E-04		
733	9.25E-03	777	2.75E-03	821	8.82E-04		
734	9.01E-03	778	2.68E-03	822	8.94E-04		
735	8.75E-03	779	2.60E-03	823	8.69E-04		
736	8.47E-03	780	2.53E-03	824	8.63E-04		
737	8.29E-03	781	2.49E-03	825	8.11E-04		