

## Lightsource Test Report

### Product Information

Product Category: LED-Lampen  
 Product Spec: LED-SLG371-E40-63-DW  
 Manufacturer: METOLIGHT  
 Buyer: 3811

Product Type: LED-Strassenlampen  
 Product Number: 1  
 Submitted Unit: 102931

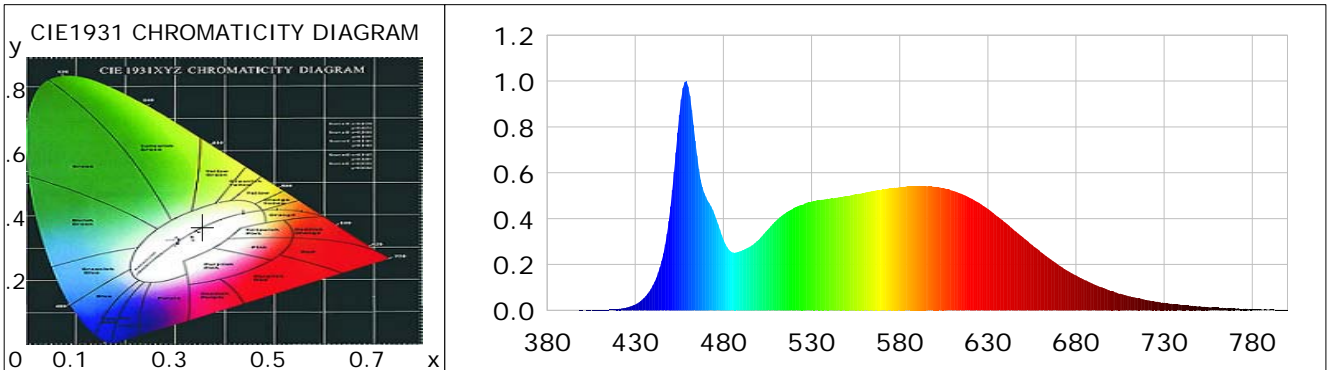
### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3556$   $y=0.3667$   $u(u')=0.2126$   $v=0.3289$   $v'=0.4934$   
 CCT:  $T_c=4688K$  ( $duv=0.00340$ ) Color Ratio:  $R=0.171$   $G=0.779$   $B=0.050$   
 Peak Wavelength: 458.7nm Half Bandwidth: 19.1nm  
 Dominant Wavelength: 573.2nm Color Purity: 0.168  
 CRI:  $R_a=86.7$ ,  $avgR(1\sim14)=81.4$ ,  $avgR(1\sim15)=81.5$  TM30:  $R_f=82$ ,  $R_g=91$   
 GAI:  $GAI\_BB\_8=87.5$ ,  $GAI\_BB\_15=95.9$ ,  $GAI\_EES=77.1$   

R1 =87	R2 =95	R3 =96	R4 =81	R5 =84	R6 =91	R7 =86	R8 =73
R9 =34	R10=86	R11=81	R12=56	R13=90	R14=99	R15=82	

Color Quality Scale:  $Q_a=84.9$ ,  $Q_f=85.2$ ,  $Q_p=83.4$ ,  $Q_g=90.8$   

Q1 =80	Q2 =93	Q3 =86	Q4 =76	Q5 =78	Q6 =79	Q7 =86	Q8 =91
Q9 =97	Q10=96	Q11=92	Q12=91	Q13=90	Q14=81	Q15=82	



### Photometric Parameters

Luminous Flux: 9236.0 lm	Efficiency: 148.23 lm/W	Radiant Power: 29.166 W
Total mains efficacy: 148.23 lm/W	Energy Efficiency Class: D (EU 2019/2015)	
Pupil Flux: 15716.33 Plm	Pupil Lumens Per Watt: 252.23 Plm/W	Pupil Factor (Kp): 1.702
Cirtopic Flux: 34596.54 lm		

### Electric Parameters

Voltage: 231.00V	Current: 0.2810A	Power: 62.31W
Power Factor: 0.9570	Frequency: 49.99Hz	

### Test Information

Scan Range: 380~800:1nm	Photometric Method: sphere-spectroradiometer
Stabilization Time: 0 ms ALC.: 1.0000	Photometric Condition: Sphere diameter: 2.00m, 4PI
Max of Signal: 49435 (2530)	CCD Integration Time: 26.01 ms

Condition:  $T_x=22.6^{\circ}C$ ,  $T_i=0.0^{\circ}C$ , R.H.: 60%  
 Test Lab:  
 Operator: CRE

Test Device: Lisun LMS-9000B  
 Test Time: 2021-02-11 15:07:59  
 Inspector:

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WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0011	0.2792	525	0.4603	121.4378	670	0.1985	52.3552
385	0.0005	0.1374	530	0.4740	125.0491	675	0.1736	45.7909
390	0.0004	0.1126	535	0.4811	126.9051	680	0.1524	40.2124
395	0.0006	0.1557	540	0.4864	128.3267	685	0.1318	34.7743
400	0.0008	0.2186	545	0.4924	129.8848	690	0.1143	30.1658
405	0.0016	0.4267	550	0.4979	131.3572	695	0.0994	26.2293
410	0.0020	0.5389	555	0.5069	133.7143	700	0.0850	22.4283
415	0.0036	0.9414	560	0.5124	135.1639	705	0.0729	19.2218
420	0.0058	1.5354	565	0.5209	137.4103	710	0.0617	16.2766
425	0.0124	3.2621	570	0.5275	139.1690	715	0.0537	14.1625
430	0.0257	6.7901	575	0.5331	140.6334	720	0.0447	11.7876
435	0.0539	14.2093	580	0.5372	141.7026	725	0.0383	10.1121
440	0.1090	28.7619	585	0.5407	142.6421	730	0.0332	8.7556
445	0.2166	57.1380	590	0.5420	142.9945	735	0.0265	7.0019
450	0.4525	119.3624	595	0.5421	143.0008	740	0.0234	6.1675
455	0.8520	224.7532	600	0.5389	142.1567	745	0.0204	5.3855
460	0.9764	257.5878	605	0.5334	140.7038	750	0.0182	4.7886
465	0.6756	178.2196	610	0.5219	137.6907	755	0.0144	3.7909
470	0.4957	130.7749	615	0.5082	134.0766	760	0.0121	3.2009
475	0.4180	110.2634	620	0.4900	129.2554	765	0.0090	2.3722
480	0.3091	81.5376	625	0.4684	123.5783	770	0.0094	2.4770
485	0.2528	66.6767	630	0.4426	116.7548	775	0.0066	1.7336
490	0.2588	68.2847	635	0.4117	108.6069	780	0.0051	1.3517
495	0.2772	73.1372	640	0.3824	100.8784	785	0.0048	1.2766
500	0.3075	81.1254	645	0.3488	92.0140	790	0.0042	1.1104
505	0.3506	92.4931	650	0.3179	83.8686	795	0.0023	0.5998
510	0.3917	103.3239	655	0.2858	75.3835	800	0.0027	0.7001
515	0.4228	111.5386	660	0.2547	67.1895			
520	0.4468	117.8714	665	0.2261	59.6444			

Condition: Tx:22.6'C, Ti:0.0'C, R.H.:60%  
 Test Lab:  
 Operator: CRE

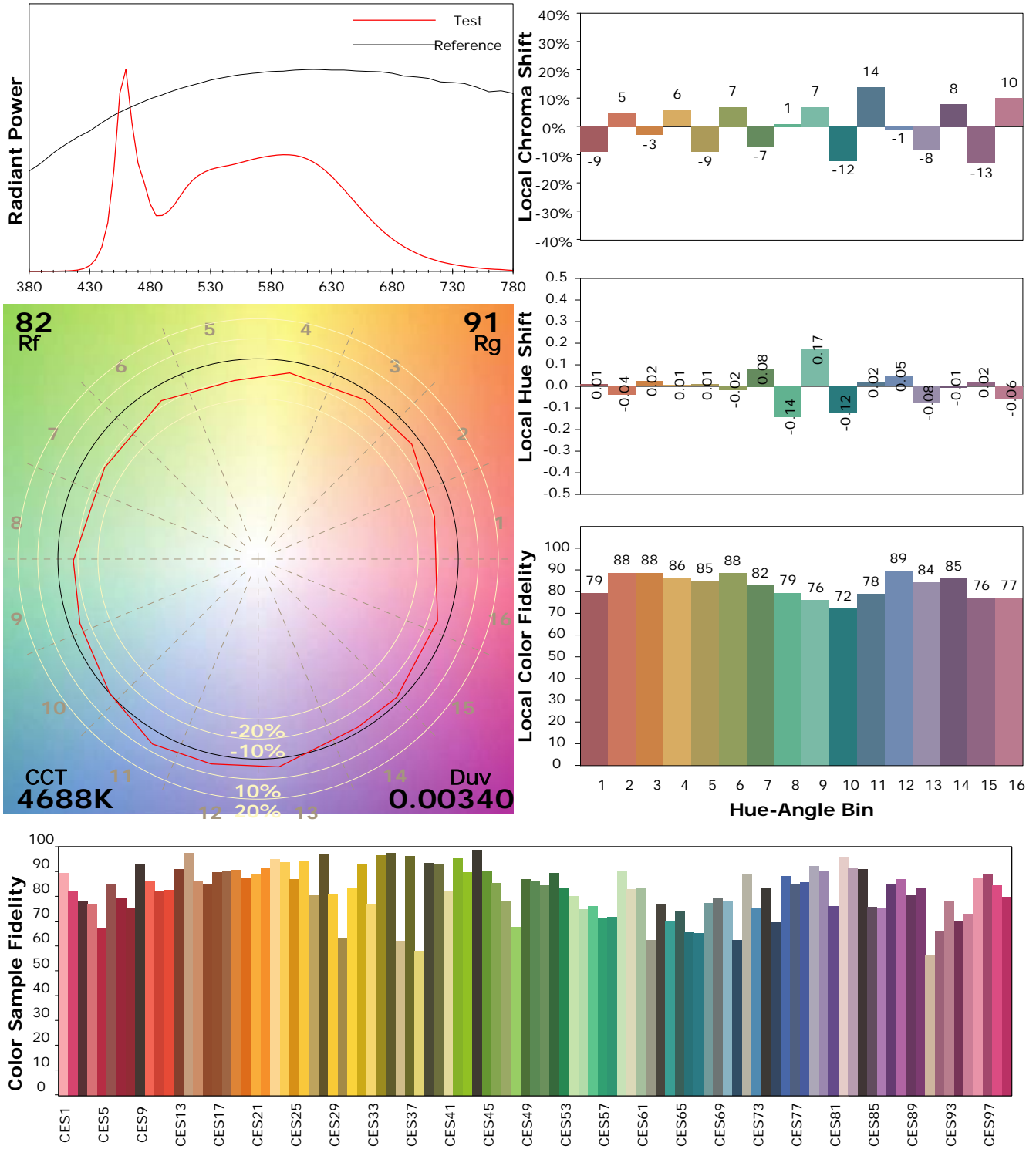
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## IES TM-30-18 Color Rendition Report

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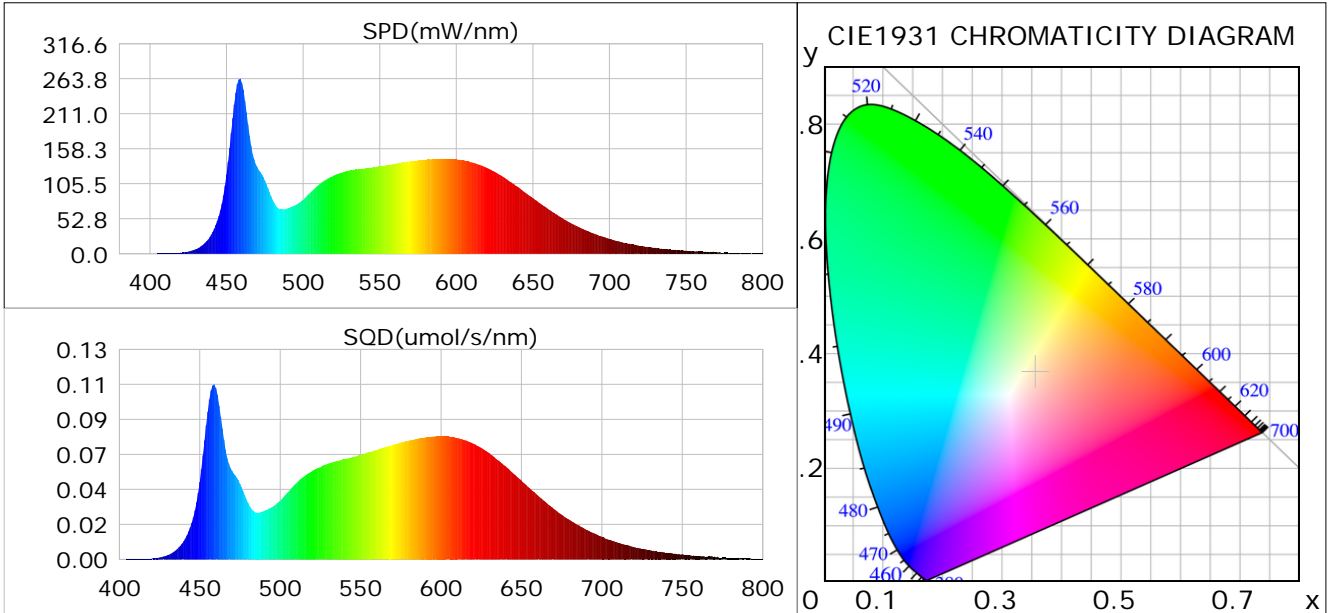
Condition: Tx:22.6°C, Ti:0.0°C, R.H.:60%  
 Test Lab:  
 Operator: CRE

Test Device: Lisun LMS-9000B  
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 Inspector:

## Plant optical param data

### CIE Colorimetric Parameters

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 Peak Wavelength: 458.7nm Half Bandwidth: 19.1nm  
 Dominant Wavelength: 573.2nm Color Purity: 0.168  
 CRI:  $R_a=86.7$



### Plant Optical Param

$ \mu_v(lm): 9236.00$	$Q_v(lm.s): 9236.00$
$ \mu_e, \dot{E}(W/nm): 29.17$	$Q_e(J): 29.17$
$ \mu_e(W): 28.53$	$ \mu_{fr}(W): 0.68$
$ \zeta_e: 0.46$	$ \zeta_{fr}: 0.01$
$PPE(umol/s/w): 2.13$	$K_{fr}: 0.06$
$Erb\_Ratio: 1.13$	$PPF(umol/s): 132.44$
$PF_{uv}(360-400)(umol/s): 0.01$	$PPF(400-500)(umol/s): 28.68$
$PPF(500-600)(umol/s): 59.33$	$PPF(600-700)(umol/s): 44.43$
$PPF_{fr}(700-800)(umol/s): 3.97$	$PPF.t(umol): 132.44$
$ \mu_{ch-A.t}(J): 2.09$	$ \mu_{ch-A}(W): 2.09$
$ \mu_{ch-B.t}(J): 1.52$	$ \mu_{ch-B}(W): 1.52$
$ \mu_b.t(J): 7.36$	$ \mu_b(W): 7.36$
$ \mu_y.t(J): 12.90$	$ \mu_y(W): 12.90$
$ \mu_r.t(J): 8.49$	$ \mu_r(W): 8.49$

### Electric Parameters

Voltage: 231.00V	Current: 0.2810A	Power: 62.31W
Power Factor: 0.9570	Frequency: 49.99Hz	

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