

Report No.:

Test Time: 06.07.2022 14:54

Luminaire Property

Luminaire Manufacturer: FAROS LED

Luminaire Category: FG 55 40W 5000K OPAL

Luminous Length (mm): 945

Luminous Height (mm): 80

Current: 0.188 A

Power Factor: 0.981

Luminous Width (mm): 55

Voltage: 221.3 V

Power: 40.97 W

Photometric Results

CIE Class: Direct

Measurement Flux: 3981.5 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.7, 162.3, 160.8, 160.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.2, 113.0, 113.7, 113.7

Luminaire Efficacy Rating (LER): 97.23

Max. Intensity: 1370.68 cd

S/MH(C0/C180): 1.27

Total Rated Lamp Lumens: 3981.5 lm

Efficiency: 100%

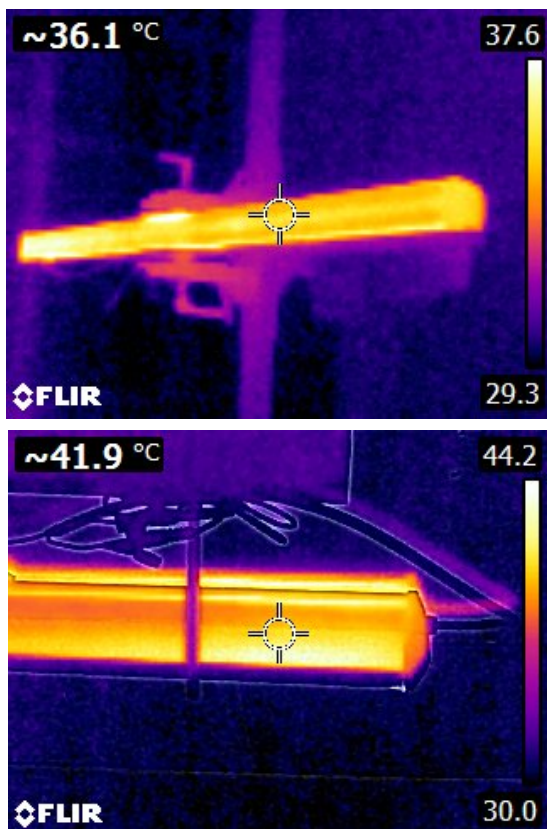
Upward Ratio: 1%

Central Intensity: 1370.67 cd

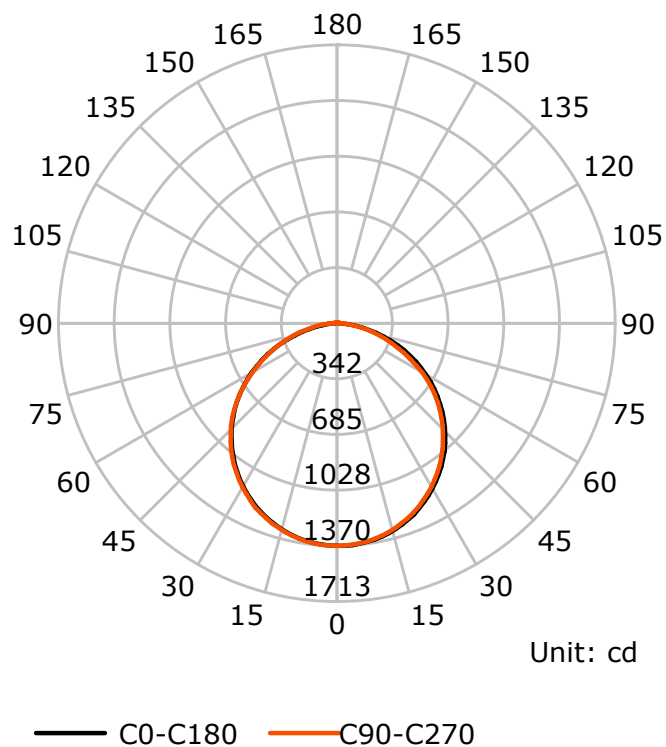
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.26

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab: FAROS LED Lab

Test Type: TYPE C

Temperature:

Operator: Lab

Gamma Plane (°):0.0-180.0:2.0

Test Device: LSG-1800B

Distance: 12.735 m

Humidity:

Inspector:

Lightsource Test Report

Product Information

Product Type: FG 55 40W 5000K OPAL

Manufacturer: FAROS LED

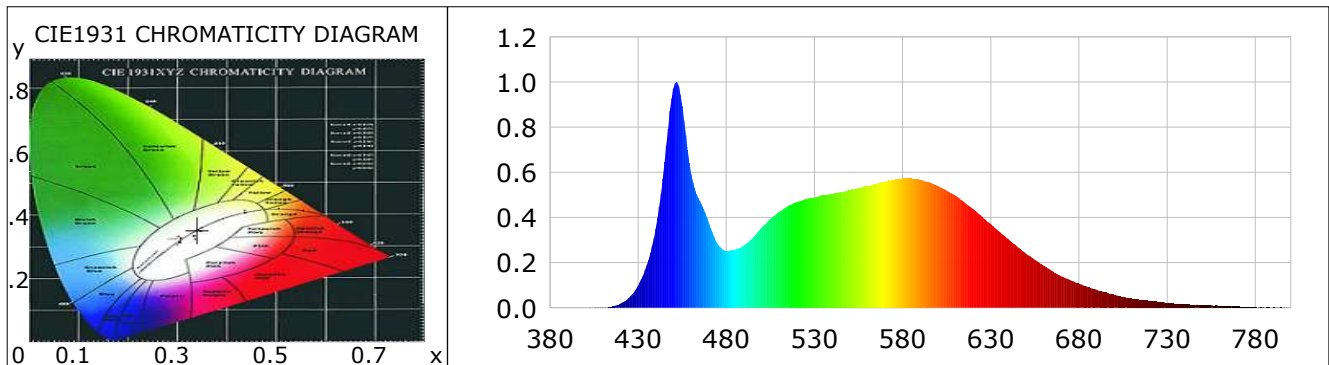
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3398$ $y=0.3535$ $u(u')=0.2071$ $v=0.3232$ $v'=0.4848$
 CCT: $T_c=5212K$ ($duv=0.00310$) Color Ratio: $R=0.151$ $G=0.801$ $B=0.049$
 Peak Wavelength: 451.6nm Half Bandwidth: 20.5nm
 Dominant Wavelength: 565.8nm Color Purity: 0.080
 CRI: $R_a=82.6$, $avgR(1\sim14)=75.5$, $avgR(1\sim15)=75.4$ TM30: $R_f=83$, $R_g=94$
 GAI: $GAI_BB_8=90.7$, $GAI_BB_15=96.4$, $GAI_EES=81.4$

R1 =80	R2 =89	R3 =94	R4 =82	R5 =81	R6 =84	R7 =86	R8 =65
R9 =1	R10=73	R11=81	R12=61	R13=83	R14=97	R15=75	

Color Quality Scale: $Q_a=81.0$, $Q_f=81.2$, $Q_p=80.7$, $Q_g=91.3$

Q1 =82	Q2 =99	Q3 =78	Q4 =74	Q5 =79	Q6 =82	Q7 =85	Q8 =89
Q9 =97	Q10=88	Q11=83	Q12=81	Q13=81	Q14=69	Q15=74	



Photometric Parameters

Luminous Flux: Efficiency: 0.00 lm/W Radiant Power: 12.943 W
 EEI: 0.00 Energy Efficiency Class: A++ (EU 874-2012)

Electric Parameters

Voltage: 0.0000V Current: 0.0000A Power: 0.00W
 Power Factor: 0.0000 Frequency: 0.00Hz

Test Information

Scan Range: 380~800:1nm Photometric Method: sphere-spectroradiometer
 Stabilization Time: 0 ms ALC.: 1.0000 Photometric Condition: Sphere diameter: 1.00m, 4PI
 Max of Signal: 45186 (3258) CCD Integration Time: 121.32 ms

Lightsource Test Report

Product Information

Product Type: FG 55 40W 5000K OPAL

Manufacturer: FAROS LED

WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)	WL(nm)	PL	PE(mW/nm)
380	0.0011	0.1254	525	0.4815	56.3891	670	0.1403	16.4322
385	0.0008	0.0898	530	0.4893	57.3009	675	0.1228	14.3825
390	0.0008	0.0981	535	0.4977	58.2884	680	0.1070	12.5359
395	0.0005	0.0531	540	0.5062	59.2839	685	0.0921	10.7863
400	0.0008	0.0990	545	0.5115	59.8965	690	0.0806	9.4373
405	0.0018	0.2092	550	0.5200	60.8888	695	0.0681	7.9748
410	0.0021	0.2403	555	0.5307	62.1434	700	0.0590	6.9115
415	0.0064	0.7501	560	0.5392	63.1453	705	0.0494	5.7835
420	0.0188	2.1977	565	0.5492	64.3112	710	0.0421	4.9282
425	0.0463	5.4275	570	0.5587	65.4204	715	0.0348	4.0702
430	0.0981	11.4845	575	0.5673	66.4287	720	0.0312	3.6531
435	0.1922	22.5051	580	0.5716	66.9410	725	0.0266	3.1191
440	0.3525	41.2844	585	0.5728	67.0826	730	0.0225	2.6365
445	0.6481	75.8959	590	0.5670	66.4022	735	0.0179	2.0998
450	0.9729	113.9266	595	0.5565	65.1712	740	0.0165	1.9357
455	0.8937	104.6606	600	0.5395	63.1786	745	0.0129	1.5111
460	0.5956	69.7498	605	0.5191	60.7888	750	0.0119	1.3933
465	0.4737	55.4741	610	0.4972	58.2203	755	0.0114	1.3295
470	0.3789	44.3717	615	0.4669	54.6720	760	0.0095	1.1173
475	0.2843	33.2954	620	0.4375	51.2349	765	0.0093	1.0905
480	0.2524	29.5575	625	0.4030	47.1882	770	0.0063	0.7374
485	0.2580	30.2114	630	0.3711	43.4598	775	0.0054	0.6327
490	0.2776	32.5106	635	0.3368	39.4422	780	0.0033	0.3903
495	0.3103	36.3351	640	0.3037	35.5664	785	0.0024	0.2805
500	0.3553	41.6034	645	0.2708	31.7140	790	0.0029	0.3451
505	0.3951	46.2672	650	0.2397	28.0645	795	0.0039	0.4594
510	0.4255	49.8295	655	0.2123	24.8563	800	0.0023	0.2667
515	0.4515	52.8770	660	0.1869	21.8829			
520	0.4687	54.8852	665	0.1627	19.0517			

Condition: Tx:27.1'C, Ti:0.0'C, R.H.:60%
Test Lab: FAROS LED Lab
Operator: Lab

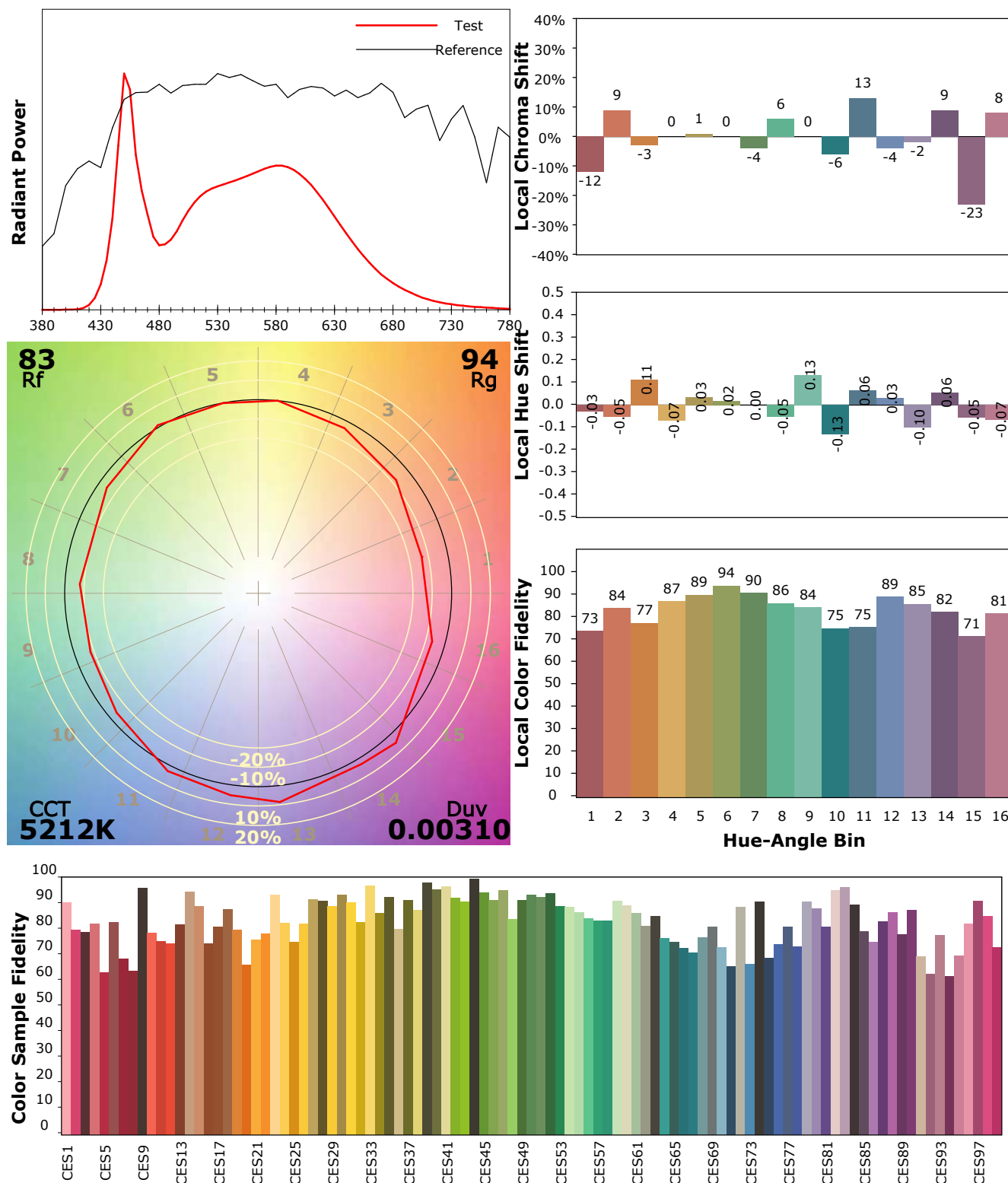
Test Device: Lisun LMS-9000A(Plus)
Test Time: 2022-07-06 16:29:30
Inspector:

IES TM-30-18 Color Rendition Report

Product Information

Product Type: FG 55 40W 5000K OPAL

Manufacturer: FAROS LED



Condition: Tx:27.1°C, Ti:0.0°C, R.H.:60%

Test Lab: FAROS LED Lab

Operator: Lab

Test Device: Lisun LMS-9000A(Plus)

Test Time: 2022-07-06 16:29:30

Inspector: