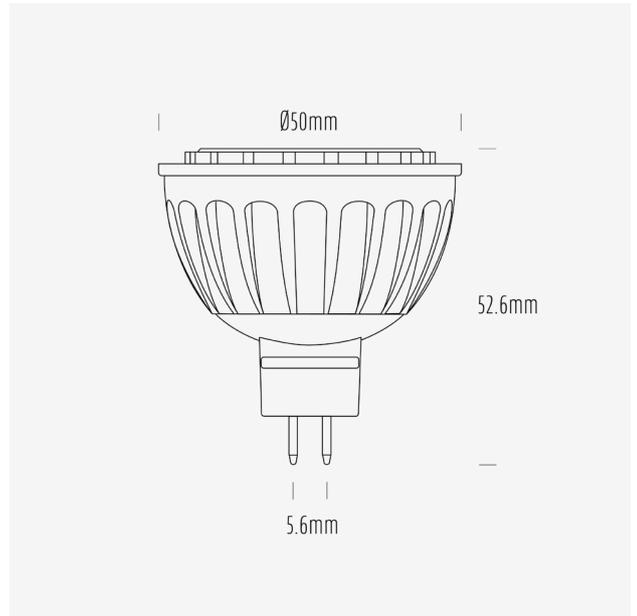


AGL 560 Series

MR16 LED Globes



AGL-560-27X60 / 2700K / MR16 / 60°



Product Data

Product Code	AGL-560-27X60			
Description	Aqualux 560 Series LED Lamp			
Type	MR16 GU5.6			
Construction	Aluminium Heatsink + PMMA Optic			
Warranty	3 Years			

Electrical Data

Input Voltage Range	12~24V AC/DC			
Nominal Voltage	24VDC			
Nominal Power	6W			
Nominal Current	250mA			
Input Voltage	12VDC	12VAC	24VDC	24VAC
Rated Power	6.1	3.9	5.5	6.0
Operating Frequency	-	50Hz	-	50Hz
Max. no. of lamps on AQD24-040	5	-	5	-
Max. no. of lamps on AQD24-100	17	-	17	-
Max. no. of lamps on AQD24-240	-	-	-	-
Dimming Compatibility	Non dimming			
Wiring Scheme	Parallel			
Startup Time	< 0.5s			

Mechanical & Thermal Data

Overall Length	52.6mm
Max Diameter	50mm
Lamp Base	GU5.6
Weight	55g
Operating Temp Range	-20° - 45°
IP Rating	IP20

Photometric Data

Nominal Flux (lm)	560			
Input Voltage	12VDC	12VAC	24VDC	24VAC
Input Power (W)	6.1	3.9	5.5	6.0
Rated Flux (lm)	664	432	652	676
Efficacy (lm/W)	109	110	119	114
CCT	2700K			
CCT Description	Warm White			
CRI (Ra)	82			
CRI (R9)	3			
TM-30 (Rf)	84			
TM-30 (Rg)	92			
SDCM	-			
Peak Intensity (cd)	500			
Nominal Beam Angle	60°			
Measured Beam Angle (FWHM)	57°			

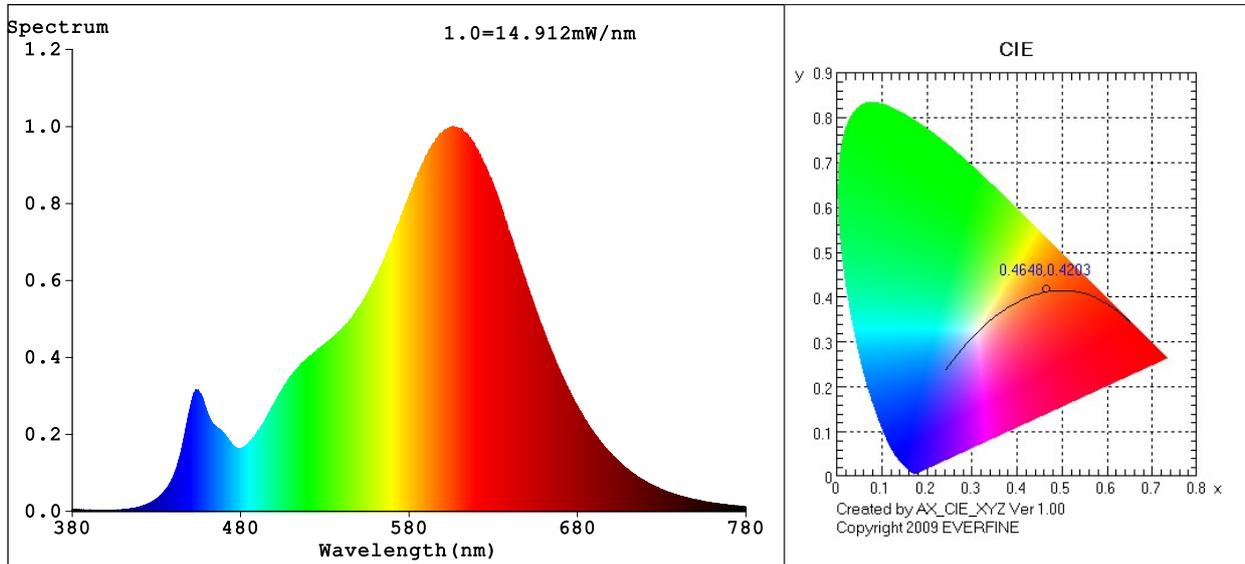
Lifespan Data

L70	15,000h
Switching Cycles	15,000

Compliance Data

EMI	Yes
RCM	N/A
Mercury Content	0mg

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4648$ $y=0.4203$ / $u'=0.2614$ $v'=0.5317$
 CCT=2706K (Duv=0.0031) Dominant WL:Ld =583.2nm WL:Lc = --nm Purity=65.7%
 Ratio:R=24.9% G=72.9% B=2.2%; Peak WL:Lp=605.8nm FWHM=111.5nm
 Render Index:Ra=82.0 AvgR=76.4 TM30:Rf=84 Rg=92

R1 =80 R2 =91 R3 =95 R4 =80 R5 =81 R6 =92 R7 =81
 R8 =56 R9 =3 R10=82 R11=80 R12=74 R13=83 R14=98 R15=71

Photo Parameters:

Flux = 675.9 lm Eff. : 113.52 lm/W Fe = 2.035 W

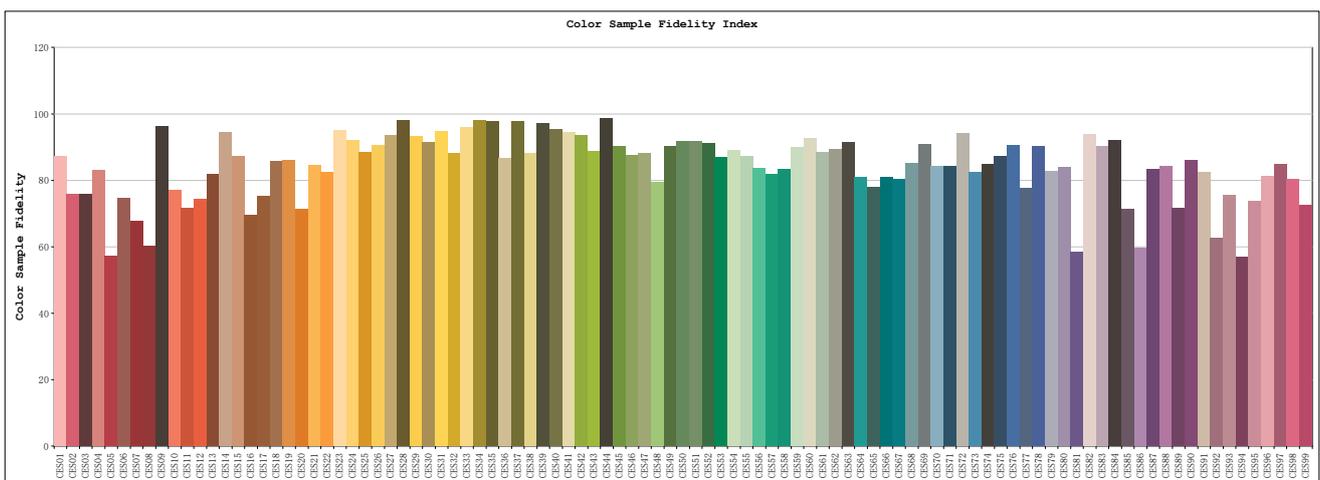
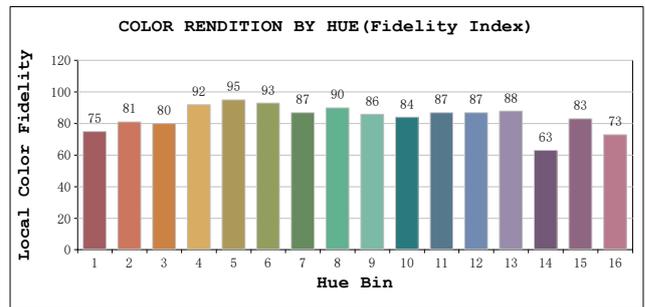
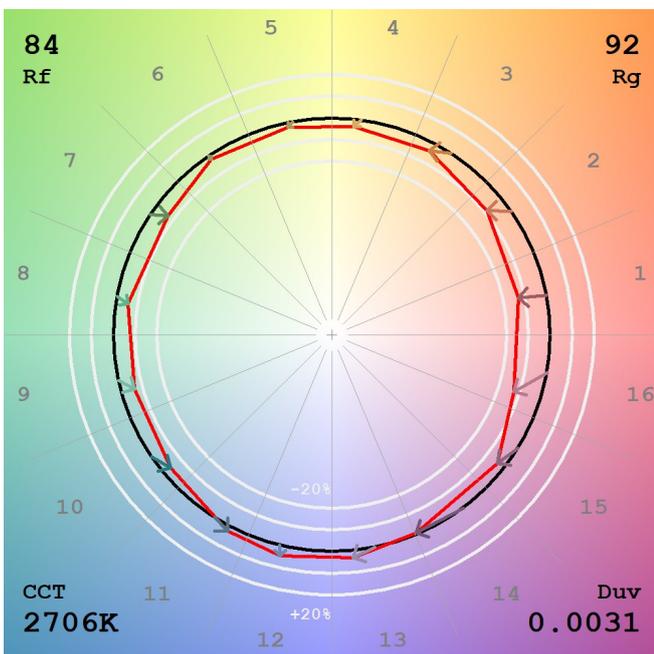
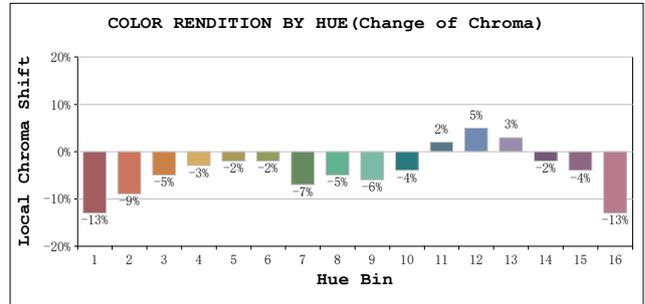
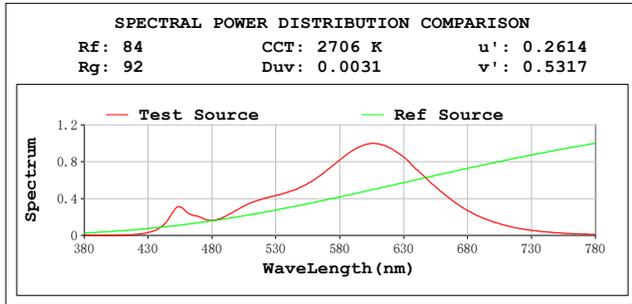
Electrical parameters:

V = 23.957 V I = 0.3714 A P = 5.954 W PF = 0.6693
 LEVEL:OUT WHITE:ANSI_2700K
 Status: Integral T = 151 ms Ip = 38733 (59%)

GBT5702

TM30

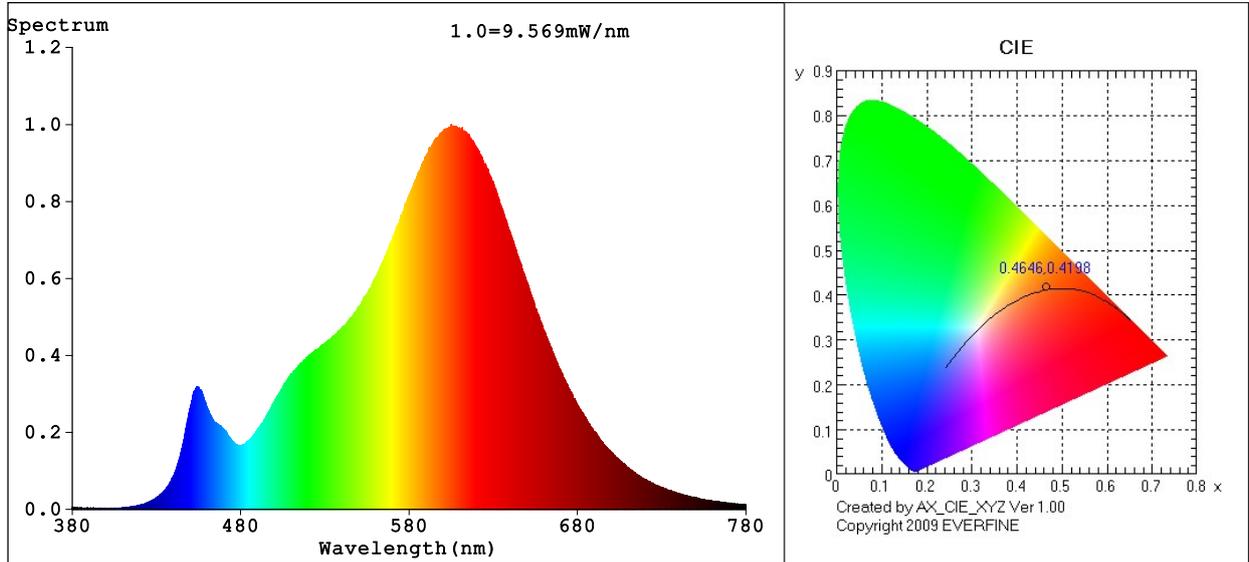
View Angle: 2 Deg



Model:AGL-560-27X60
 Tester:NC
 Temperature:25.3Deg
 Manufacturer:AQUALUX

Number:AGL-560-27X60 24VAC
 Date:2023-10-17 16:28:35
 Humidity:65.0%
 Remarks:24VAC

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4646$ $y=0.4198$ / $u'=0.2614$ $v'=0.5315$
 CCT=2705K (Duv=0.0030) Dominant WL:Ld =583.3nm WL:Lc = --nm Purity=65.5%
 Ratio:R=25.0% G=72.8% B=2.2%; Peak WL:Lp=605.1nm FWHM=111.4nm
 Render Index:Ra=82.1 AvgR=76.6 TM30:Rf=84 Rg=92

R1 =81 R2 =92 R3 =95 R4 =80 R5 =81 R6 =92 R7 =81
 R8 =56 R9 =4 R10=82 R11=80 R12=74 R13=83 R14=98 R15=71

Photo Parameters:

Flux = 431.8 lm Eff. : 110.35 lm/W Fe = 1.302 W

Electrical parameters:

V = 11.979 V I = 0.4216 A P = 3.913 W PF = 0.7748

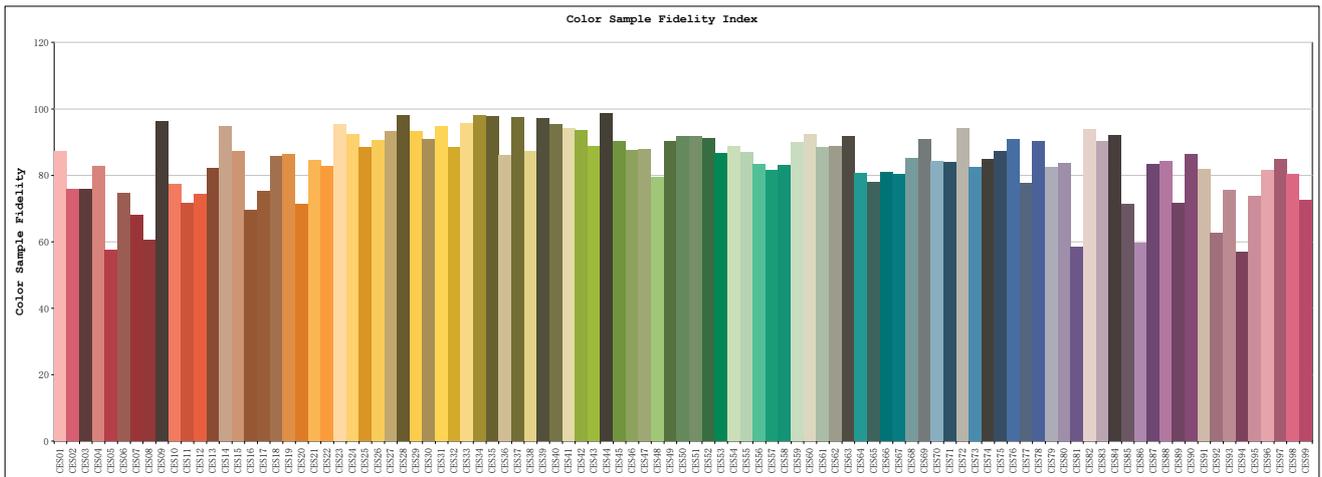
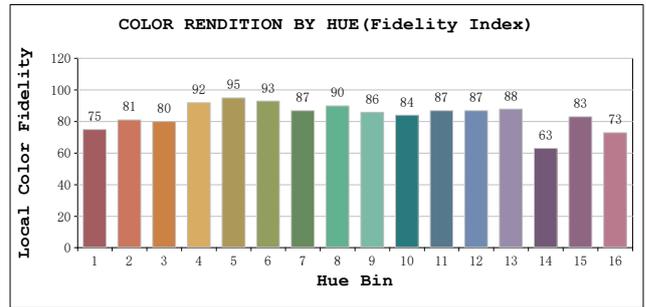
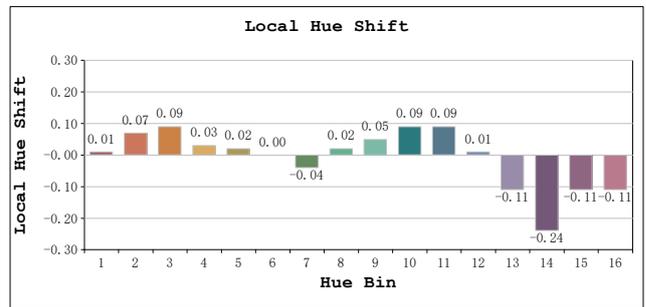
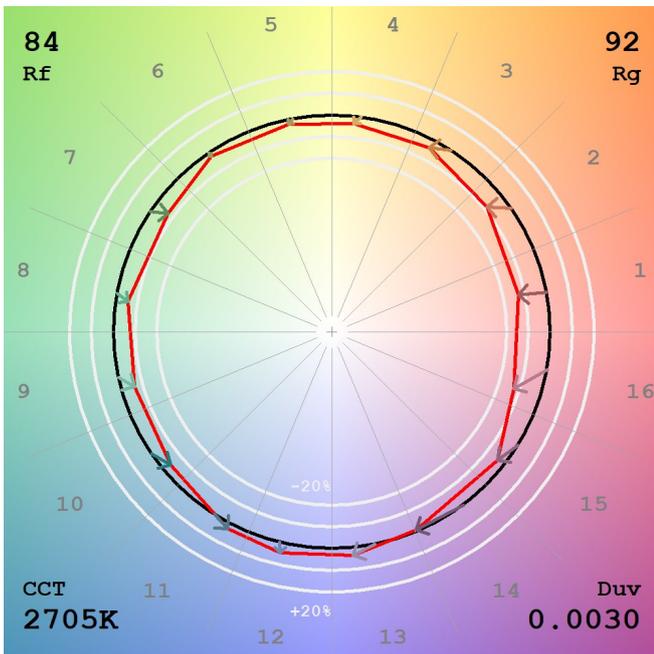
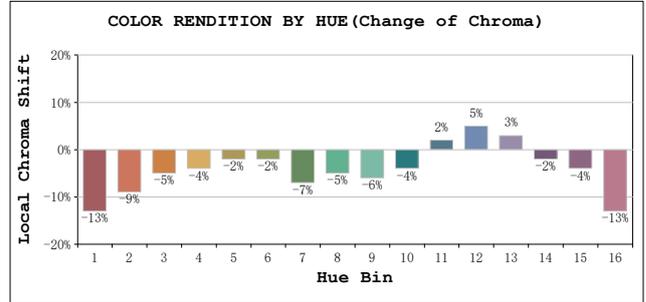
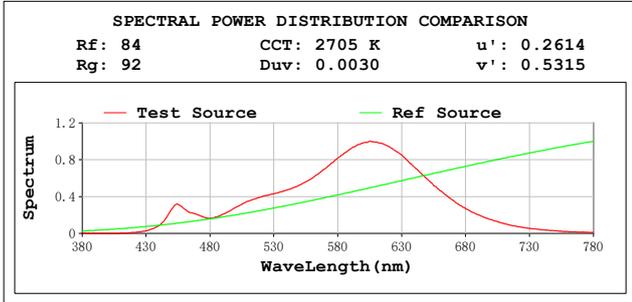
LEVEL:OUT WHITE:ANSI_2700K

Status: Integral T = 311 ms Ip = 51138 (78%)

GBT5702

TM30

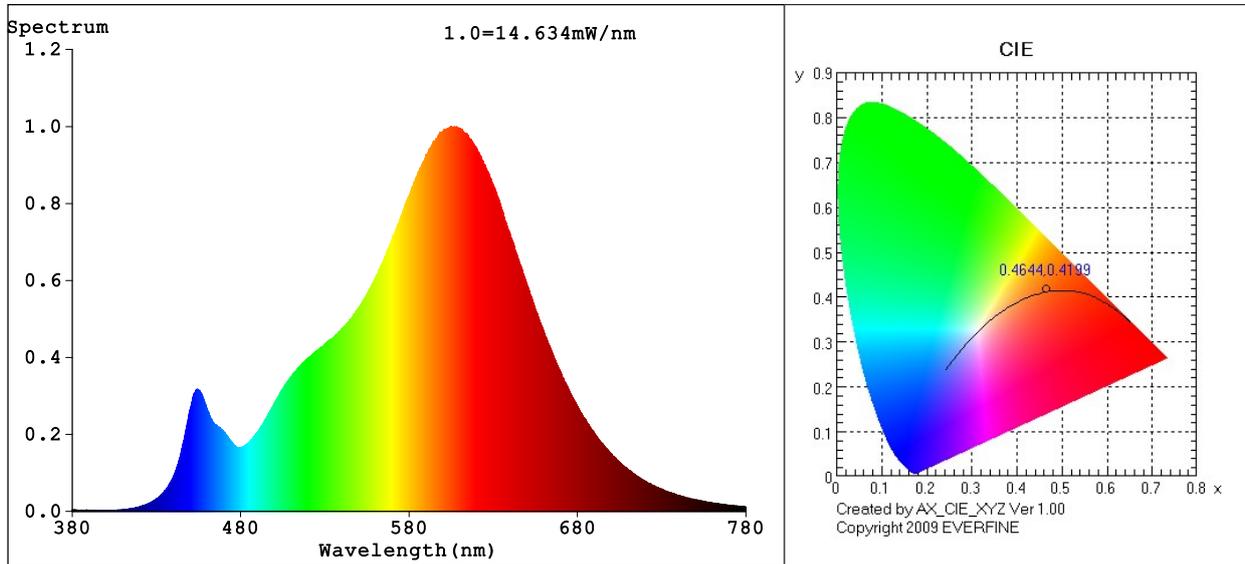
View Angle:2 Deg



Model:AGL-560-27X60
 Tester:NC
 Temperature:25.3Deg
 Manufacturer:AQUALUX

Number:AGL-560-27X60 12VAC
 Date:2023-10-17 16:29:12
 Humidity:65.0%
 Remarks:12VAC

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4644$ $y=0.4199$ / $u'=0.2613$ $v'=0.5315$
 CCT=2708K (Duv=0.0030) Dominant WL:Ld =583.2nm WL:Lc = --nm Purity=65.5%
 Ratio:R=24.9% G=72.9% B=2.2%; Peak WL:Lp=604.8nm FWHM=111.8nm
 Render Index:Ra=81.9 AvgR=76.3 TM30:Rf=84 Rg=92

R1 =80 R2 =92 R3 =95 R4 =80 R5 =81 R6 =92 R7 =81
 R8 =56 R9 =3 R10=82 R11=80 R12=74 R13=83 R14=98 R15=71

Photo Parameters:

Flux = 664.1 lm Eff. : 109.05 lm/W Fe = 2.000 W

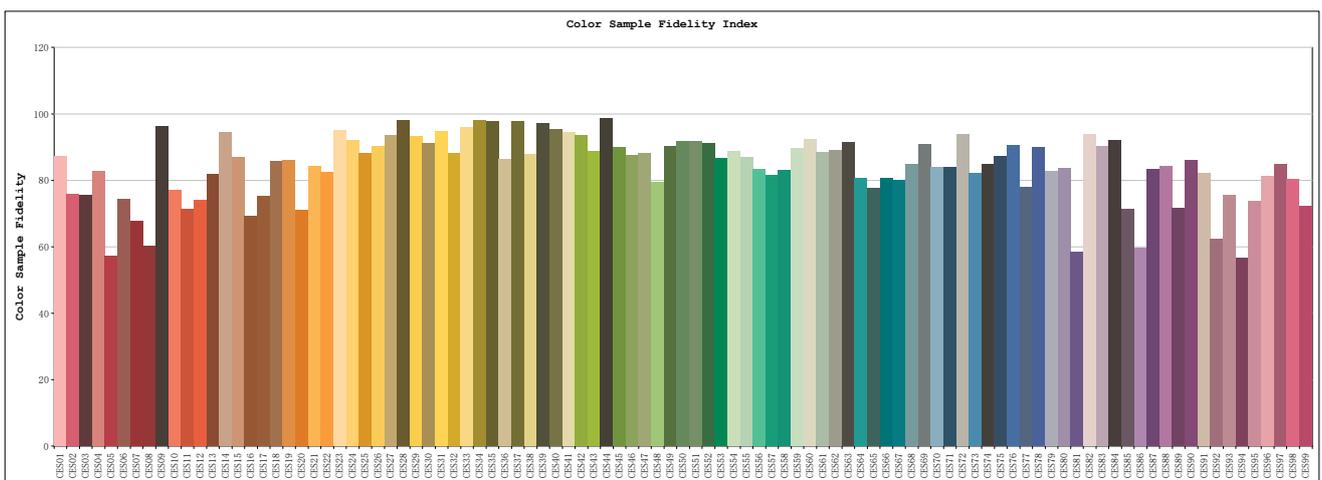
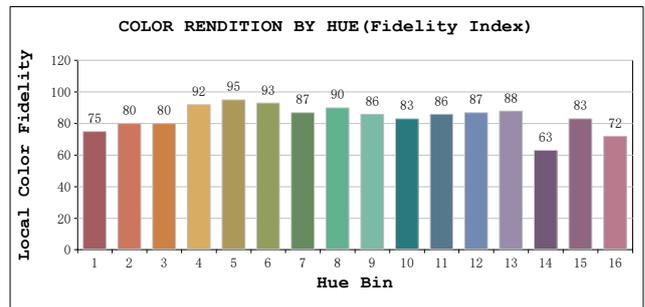
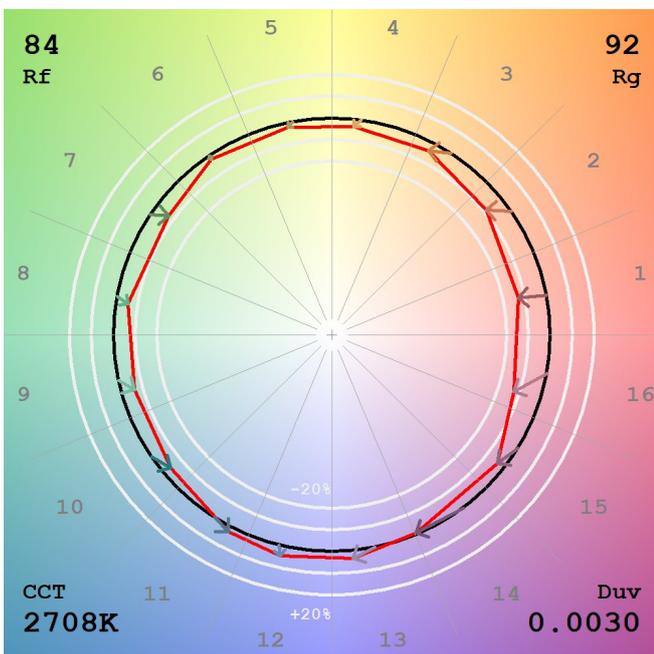
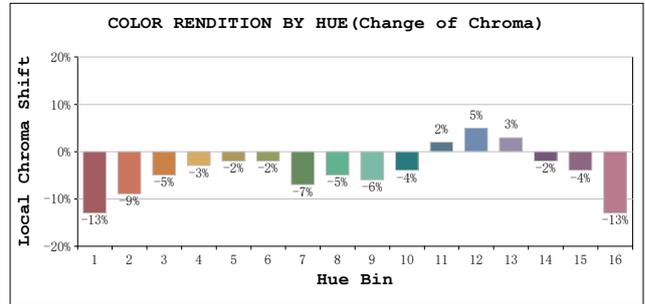
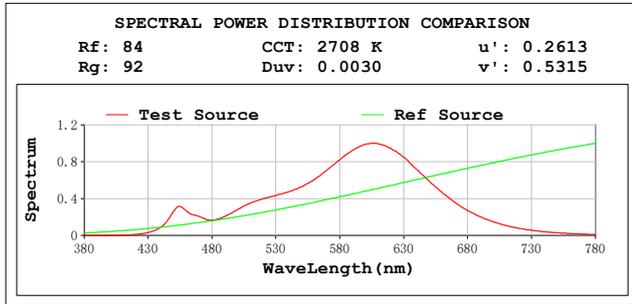
Electrical parameters:

V = 11.954 V I = 0.5095 A P = 6.090 W PF = 1.0000
 LEVEL:OUT WHITE:ANSI_2700K
 Status: Integral T = 155 ms Ip = 39166 (60%)

GBT5702

TM30

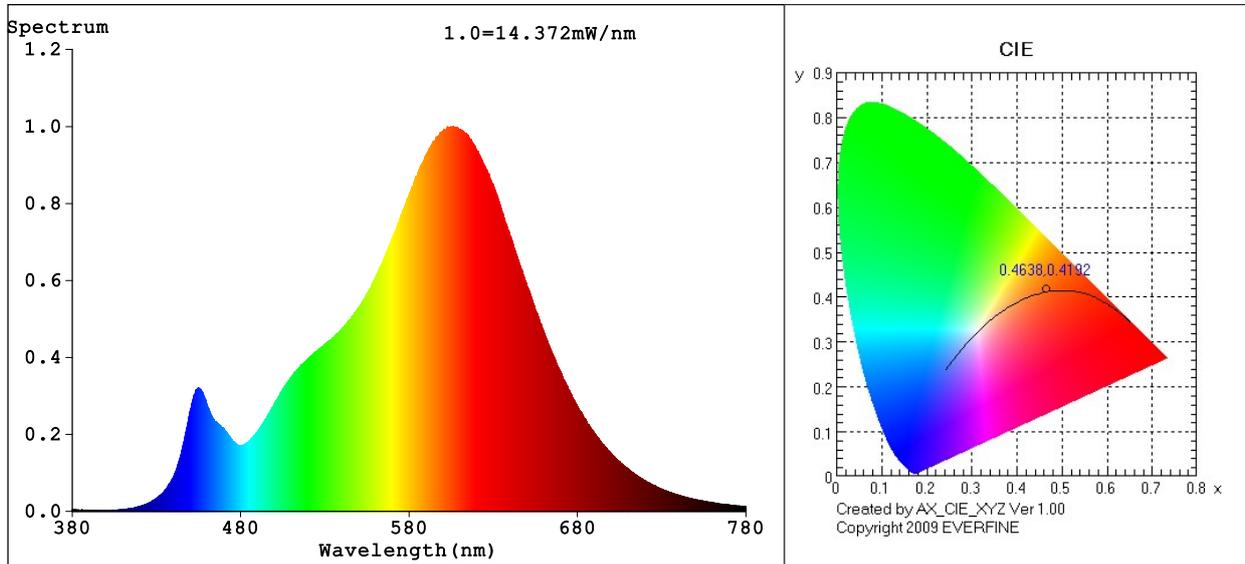
View Angle: 2 Deg



Model:AGL-560-27X60
 Tester:NC
 Temperature:25.3Deg
 Manufacturer:AQUALUX

Number:AGL-560-27X60 12VDC
 Date:2023-10-17 16:30:09
 Humidity:65.0%
 Remarks:12VDC

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4638$ $y=0.4192$ / $u'=0.2612$ $v'=0.5312$
 CCT=2711K (Duv=0.0028) Dominant WL:Ld =583.3nm WL:Lc = --nm Purity=65.1%
 Ratio:R=24.9% G=72.9% B=2.3%; Peak WL:Lp=606.1nm FWHM=111.7nm
 Render Index:Ra=81.8 AvgR=76.2 TM30:Rf=84 Rg=92

R1 =80 R2 =92 R3 =95 R4 =79 R5 =80 R6 =92 R7 =81
 R8 =55 R9 =3 R10=82 R11=79 R12=74 R13=83 R14=98 R15=71

Photo Parameters:

Flux = 652.2 lm Eff. : 118.98 lm/W Fe = 1.967 W

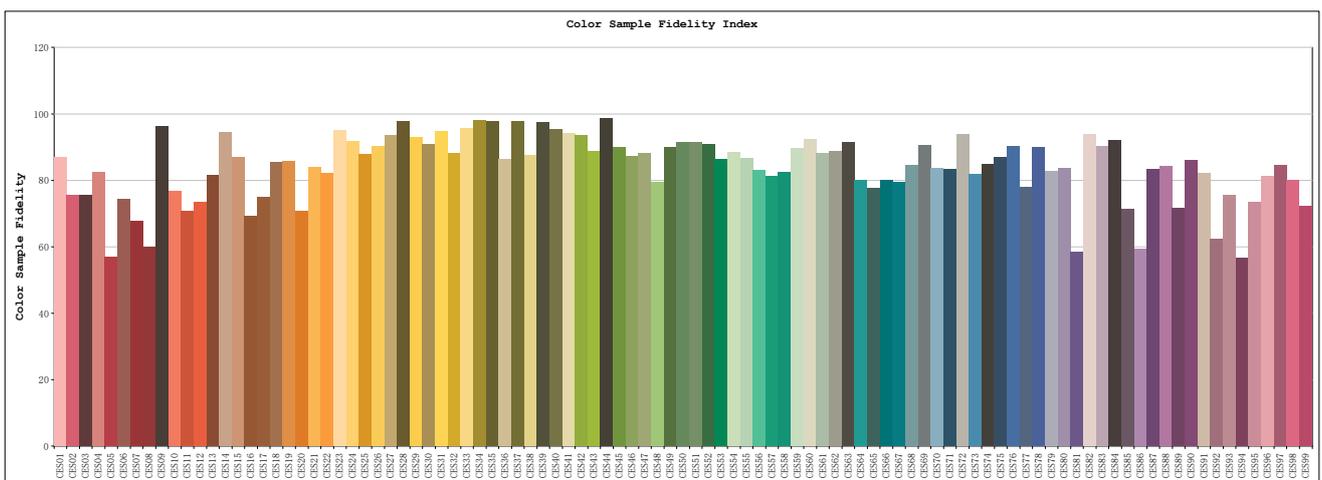
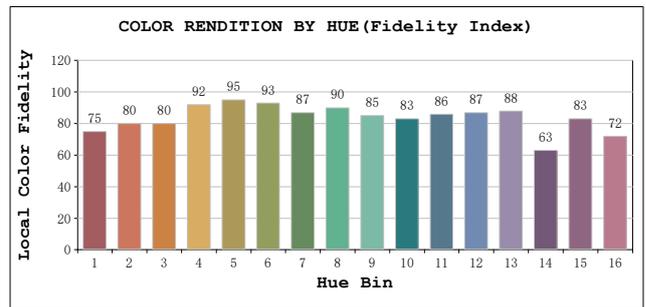
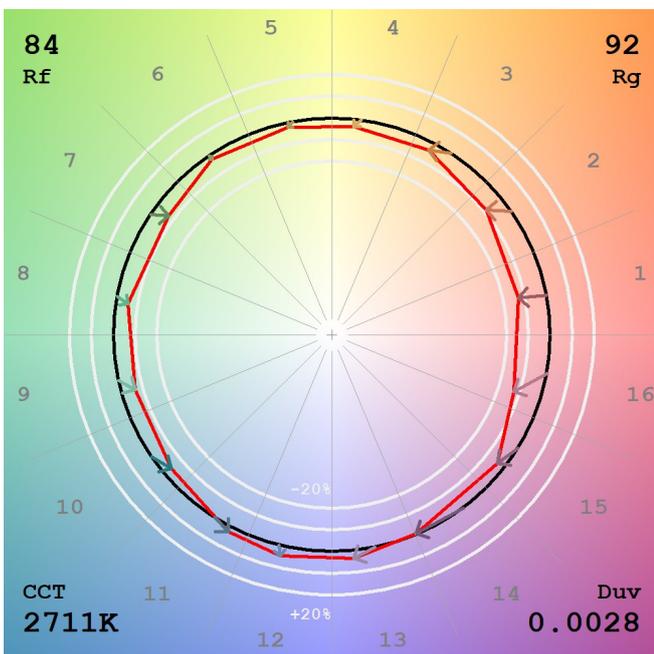
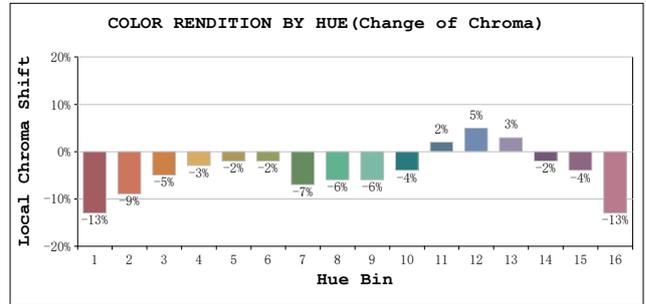
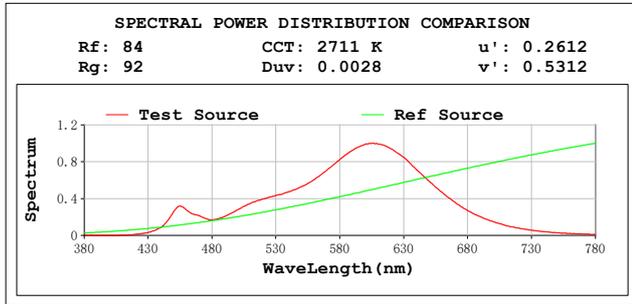
Electrical parameters:

V = 23.983 V I = 0.2286 A P = 5.482 W PF = 1.0000
 LEVEL:OUT WHITE:ANSI_2700K
 Status: Integral T = 155 ms Ip = 38443 (59%)

GBT5702

TM30

View Angle: 2 Deg



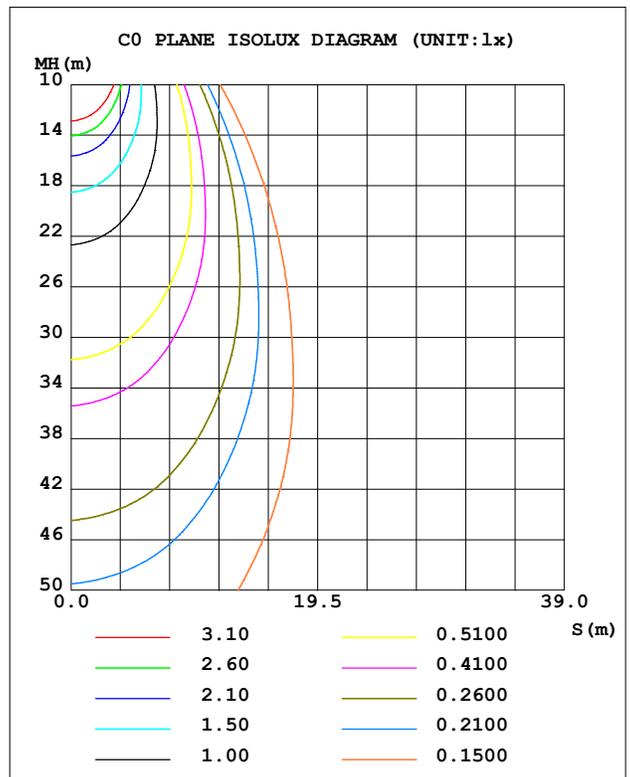
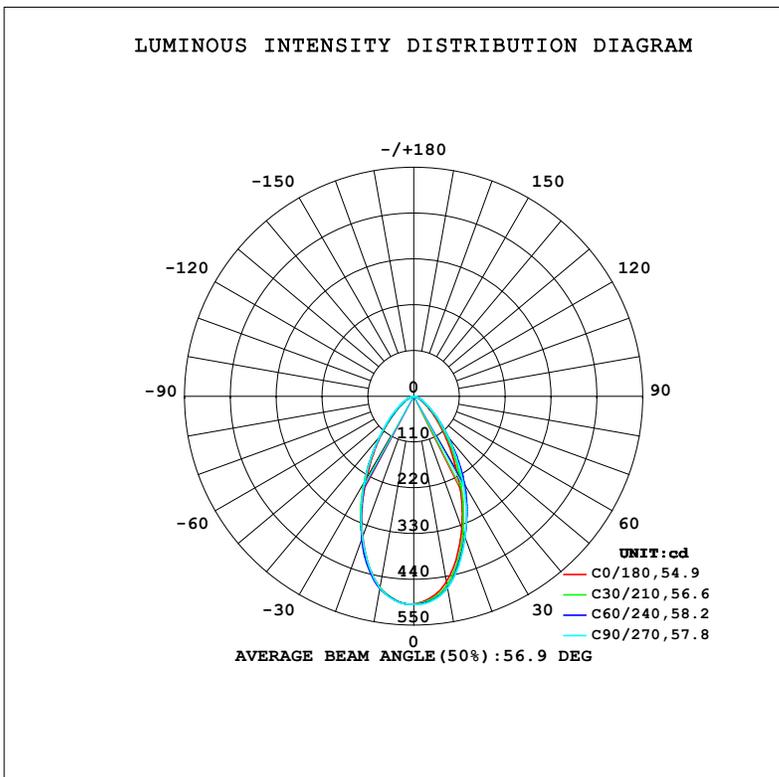
Model:AGL-560-27X60
 Tester:NC
 Temperature:25.3Deg
 Manufacturer:AQUALUX

Number:AGL-560-27X60 24VDC
 Date:2023-10-17 16:31:26
 Humidity:65.0%
 Remarks:24VDC

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.800V I:0.2246A P:5.3453W PF:1.0000 Freq:0Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:540.12x1 lm		
NAME: AGL-560-27X60	TYPE: MR16 GLOBE	WEIGHT: 100G
SPEC.: AGL-560-27X60	DIM.: 50MM	SERIAL No.:
MFR.: AQUALUX	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 101.05 lm/W
MODEL	AGL-560-27X60	I _{max} (cd)	500.3	S/MH (C0/180)	0.85	
NOMINAL POWER (W)	6	LOR (%)	100.0	S/MH (C90/270)	0.86	
RATED VOLTAGE (V)	24	TOTAL FLUX (lm)	540.12	η UP, DN (C0-180)	0.0, 49.9	
NOMINAL FLUX (lm)	540.12	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.1	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE (V)	24	η down (%)	100.0	CIBSE SHR MAX	0.95	



C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 20°C
 Operators: NICK
 Test Date: 16 October 2023

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity: 65.0%
 Test Distance: 3.100m [K=1.0000]
 Remarks: AGL-560-27X60
 2700K / 60D / 6W / 550LM

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	∅ zone	∅ total	%lum, lamp
10	452.7	465.2	467.8	469.5	466.8	469.5	467.8	465.2	0- 10	46.12	46.12	8.54,8.54
20	337.6	355.0	360.1	367.6	358.9	367.6	360.1	355.0	10- 20	116.2	162.3	30.1,30.1
30	205.3	237.0	236.2	243.1	227.2	243.1	236.2	237.0	20- 30	134.7	297.0	55,55
40	108.8	127.3	129.3	126.9	123.7	126.9	129.3	127.3	30- 40	109.3	406.3	75.2,75.2
50	52.42	60.27	64.04	58.59	59.59	58.59	64.04	60.27	40- 50	68.24	474.6	87.9,87.9
60	24.79	27.45	30.47	26.20	27.71	26.20	30.47	27.45	50- 60	36.98	511.5	94.7,94.7
70	9.936	11.32	12.63	10.75	11.16	10.75	12.63	11.32	60- 70	18.55	530.1	98.1,98.1
80	3.965	4.400	4.558	4.336	4.268	4.336	4.558	4.400	70- 80	7.445	537.5	99.5,99.5
90	0.0243	0.0244	0.0266	0.0317	0.0243	0.0317	0.0266	0.0244	80- 90	2.579	540.1	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 445.22 lm

%lum = 82.4%
%lamp = 82.4%

Conical surface Flux(130deg): 522.65 lm

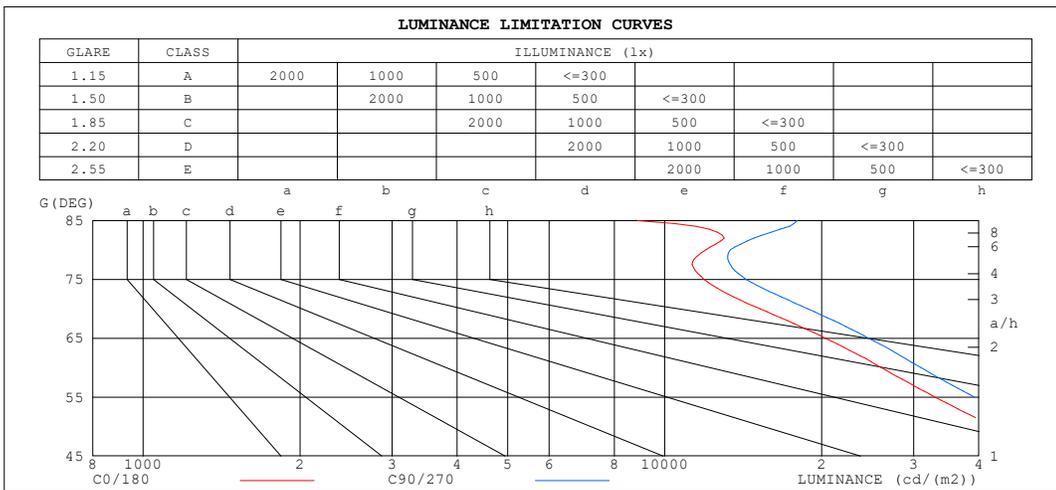
%lum = 96.8%
%lamp = 96.8%

C Range: 0 - 180DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:20°C
Operators:NICK
Test Date:16 October 2023

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:3.100m [K=1.0000]
Remarks: AGL-560-27X60
2700K / 60D / 6W / 550LM

LUMINANCE LIMITATION CURVES

Test:U:23.800V I:0.2246A P:5.3453W PF:1.0000 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:540.12x1 lm		
NAME: AGL-560-27X60	TYPE: MR16 GLOBE	WEIGHT: 100G
SPEC.: AGL-560-27X60	DIM.: 50MM	SERIAL No.:
MFR.: AQUALUX	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	8874	17933
80	11980	13355
75	11896	14327
70	15244	18786
65	20333	24607
60	26011	31010
55	32982	39250
50	42793	50695
45	56463	65731

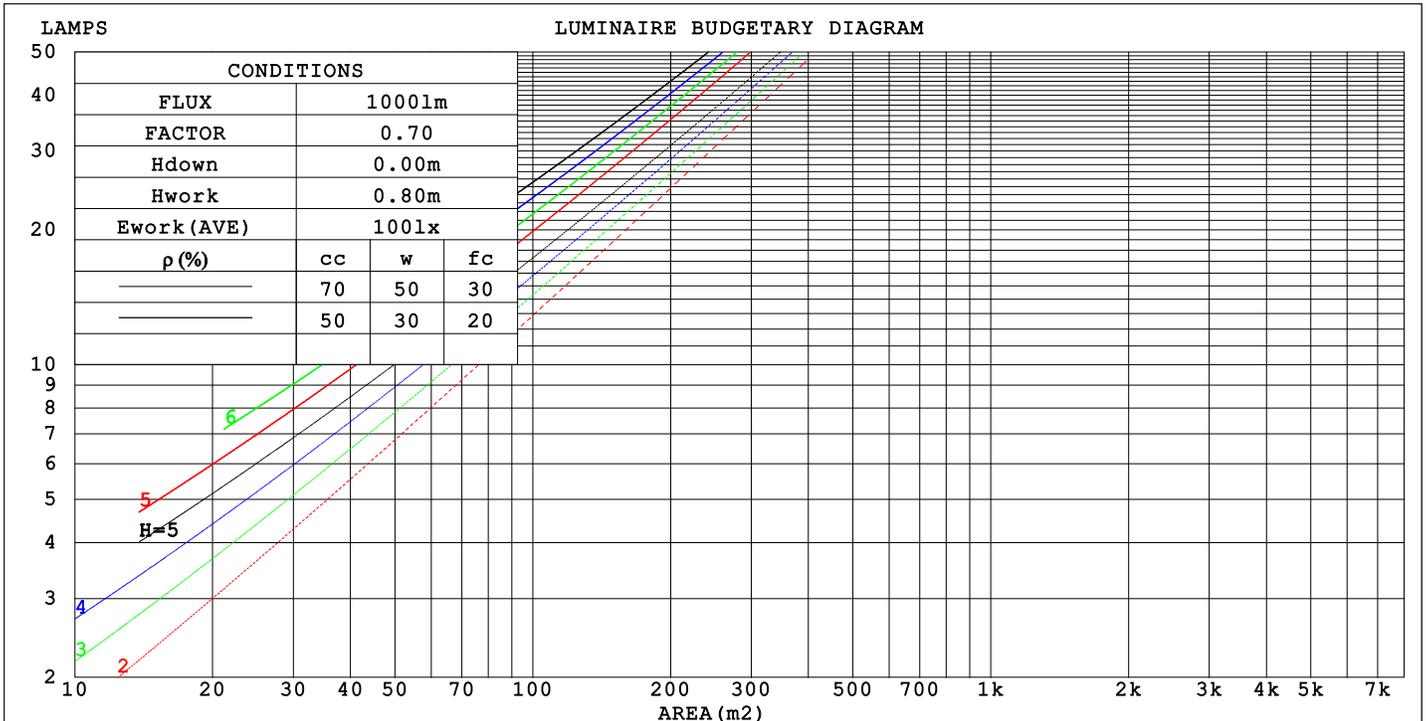
C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:20°C
 Operator:NICK
 Test Date:16 October 2023

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:3.100m [K=1.0000]
 Remarks: AGL-560-27X60
 2700K / 60D / 6W / 550LM

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.800V I:0.2246A P:5.3453W PF:1.0000 Freq:0Hz		
UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:540.12x1 lm		
NAME: AGL-560-27X60	TYPE: MR16 GLOBE	WEIGHT: 100G
SPEC.: AGL-560-27X60	DIM.: 50MM	SERIAL No.:
MFR.: AQUALUX	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization (CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.09	1.06	1.03	1.07	1.04	1.01	1.03	1.00	.98	.99	.97	.95	.95	.94	.93	.91
2.0	.99	.94	.90	.98	.93	.89	.94	.91	.87	.91	.88	.85	.88	.86	.84	.82
3.0	.91	.85	.80	.90	.84	.80	.87	.82	.78	.84	.80	.77	.82	.79	.76	.74
4.0	.84	.77	.72	.82	.76	.72	.80	.75	.71	.78	.74	.70	.76	.72	.69	.67
5.0	.77	.70	.65	.76	.70	.65	.74	.69	.64	.73	.68	.64	.71	.67	.63	.62
6.0	.72	.65	.60	.71	.64	.59	.69	.63	.59	.68	.62	.59	.66	.62	.58	.56
7.0	.67	.60	.55	.66	.59	.55	.64	.59	.54	.63	.58	.54	.62	.57	.54	.52
8.0	.62	.55	.51	.62	.55	.51	.60	.54	.50	.59	.54	.50	.58	.53	.50	.48
9.0	.58	.52	.47	.58	.51	.47	.57	.51	.47	.56	.50	.47	.55	.50	.46	.45
10.0	.55	.48	.44	.54	.48	.44	.53	.48	.44	.52	.47	.43	.52	.47	.43	.42



C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 20°C
 Operators: NICK
 Test Date: 16 October 2023

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity: 65.0%
 Test Distance: 3.100m [K=1.0000]
 Remarks: AGL-560-27X60
 2700K / 60D / 6W / 550LM

WEC AND CCEC

Test:U:23.800V I:0.2246A P:5.3453W PF:1.0000 Freq:0Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:540.12x1 lm		
NAME: AGL-560-27X60	TYPE: MR16 GLOBE	WEIGHT: 100G
SPEC.: AGL-560-27X60	DIM.: 50MM	SERIAL No.:
MFR.: AQUALUX	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.215	.122	.039	.208	.119	.038	.195	.112	.036	.184	.106	.034	.173	.100	.032	
2.0	.206	.113	.035	.200	.110	.034	.190	.105	.033	.179	.101	.032	.170	.096	.030	
3.0	.195	.104	.031	.190	.102	.031	.181	.098	.030	.172	.094	.029	.164	.091	.028	
4.0	.185	.096	.028	.180	.094	.028	.172	.091	.027	.164	.088	.027	.157	.085	.026	
5.0	.174	.089	.026	.171	.088	.026	.163	.085	.025	.157	.083	.025	.150	.080	.024	
6.0	.165	.083	.024	.162	.082	.023	.155	.080	.023	.149	.078	.023	.144	.076	.022	
7.0	.156	.077	.022	.153	.076	.022	.148	.075	.021	.142	.073	.021	.137	.071	.021	
8.0	.148	.072	.020	.146	.072	.020	.140	.070	.020	.136	.069	.020	.131	.067	.020	
9.0	.141	.068	.019	.139	.068	.019	.134	.066	.019	.130	.065	.019	.126	.064	.018	
10.0	.134	.064	.018	.132	.064	.018	.128	.063	.018	.124	.062	.018	.120	.061	.017	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.174	.157	.142	.149	.135	.122	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.161	.132	.108	.138	.114	.094	.094	.079	.065	.054	.046	.038	.017	.015	.012	
3.0	.150	.114	.085	.129	.098	.074	.088	.068	.052	.051	.040	.030	.016	.013	.010	
4.0	.141	.100	.068	.121	.086	.059	.083	.060	.042	.048	.035	.025	.015	.011	.008	
5.0	.133	.088	.055	.114	.076	.048	.079	.053	.034	.046	.031	.020	.015	.010	.007	
6.0	.126	.079	.046	.108	.069	.040	.075	.048	.028	.043	.028	.017	.014	.009	.006	
7.0	.119	.072	.039	.103	.063	.034	.071	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.114	.066	.033	.098	.057	.029	.068	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.108	.061	.029	.093	.053	.025	.065	.037	.018	.038	.022	.011	.012	.007	.004	
10.0	.103	.057	.026	.089	.049	.022	.062	.035	.016	.036	.020	.009	.012	.007	.003	

C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:20°C
 Operators:NICK
 Test Date:16 October 2023

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:3.100m [K=1.0000]
 Remarks: AGL-560-27X60
 2700K / 60D / 6W / 550LM

UGR(Unified Glare Rating) Table

Test:U:23.800V I:0.2246A P:5.3453W PF:1.0000 Freq:0Hz										
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:540.12x1 lm										
NAME: AGL-560-27X60					TYPE: MR16 GLOBE			WEIGHT: 100G		
SPEC.: AGL-560-27X60					DIM.: 50MM			SERIAL No.:		
MFR.: AQUALUX					SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	25.6	26.7	25.8	26.9	27.1	26.2	27.3	26.4	27.5	27.7
3H	25.9	26.9	26.2	27.1	27.3	26.5	27.6	26.8	27.8	28.0
4H	25.9	26.9	26.2	27.2	27.4	26.6	27.6	26.9	27.8	28.0
6H	26.0	26.9	26.3	27.1	27.4	26.6	27.6	26.9	27.8	28.1
8H	26.0	26.9	26.3	27.1	27.4	26.7	27.5	27.0	27.8	28.1
12H	26.0	26.8	26.3	27.1	27.4	26.7	27.5	27.0	27.8	28.1
4H 2H	25.7	26.7	26.0	26.9	27.2	26.3	27.3	26.6	27.5	27.7
3H	26.1	27.0	26.4	27.2	27.5	26.7	27.5	27.0	27.8	28.1
4H	26.2	27.0	26.6	27.3	27.6	26.8	27.6	27.2	27.9	28.2
6H	26.3	27.0	26.7	27.3	27.7	26.9	27.6	27.3	27.9	28.3
8H	26.4	27.0	26.8	27.4	27.8	27.0	27.6	27.4	28.0	28.3
12H	26.4	27.0	26.8	27.4	27.8	27.1	27.6	27.5	28.0	28.4
8H 4H	26.2	26.9	26.6	27.2	27.6	26.8	27.4	27.2	27.8	28.1
6H	26.4	26.9	26.8	27.3	27.7	27.0	27.5	27.4	27.9	28.3
8H	26.5	27.0	27.0	27.4	27.9	27.1	27.5	27.5	28.0	28.4
12H	26.6	27.0	27.1	27.4	27.9	27.3	27.6	27.7	28.1	28.6
12H 4H	26.2	26.8	26.6	27.2	27.5	26.7	27.3	27.2	27.7	28.1
6H	26.4	26.9	26.9	27.3	27.7	27.0	27.4	27.4	27.8	28.3
8H	26.6	27.0	27.0	27.4	27.9	27.1	27.5	27.6	27.9	28.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.0 / - 1.4					+ 1.0 / - 1.3				
1.5H	+ 1.1 / - 1.0					+ 1.2 / - 1.1				
2.0H	+ 1.8 / - 1.4					+ 2.0 / - 1.5				

CIE Pub.117, 540.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.1)
 Area: 0.001963 m2

C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:20°C
 Operators:NICK
 Test Date:16 October 2023

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:3.100m [K=1.0000]
 Remarks: AGL-560-27X60
 2700K / 60D / 6W / 550LM

UTILIZATION FACTORS TABLE

Test:U:23.800V I:0.2246A P:5.3453W PF:1.0000 Freq:0Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:540.12x1 lm		
NAME: AGL-560-27X60	TYPE: MR16 GLOBE	WEIGHT: 100G
SPEC.: AGL-560-27X60	DIM.: 50MM	SERIAL No.:
MFR.: AQUALUX	SUR.:	Shielding Angle:

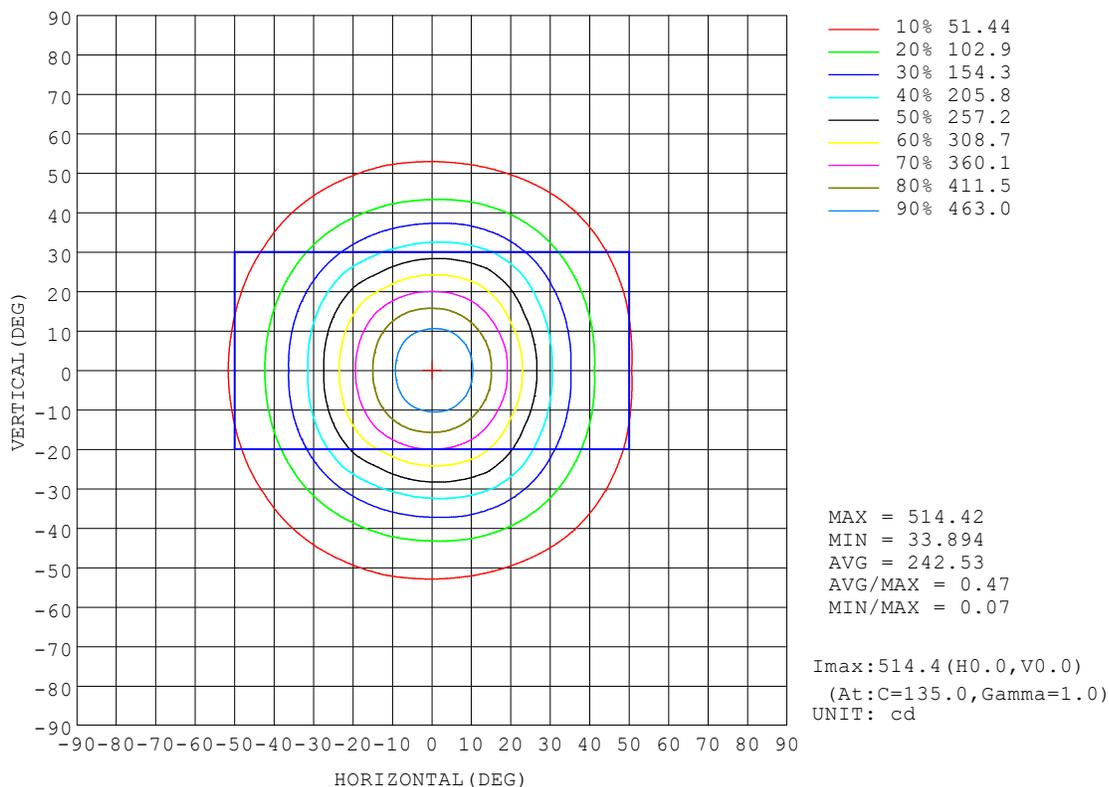
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	76	68	63	75	67	62	74	67	62	58
0.80	85	77	72	84	76	72	83	76	71	66
1.00	91	84	79	90	83	78	88	84	78	73
1.25	96	90	85	95	89	84	93	88	84	78
1.50	100	94	89	99	93	89	96	91	88	82
2.00	104	99	95	103	98	94	100	96	92	86
2.50	107	102	98	105	100	97	102	98	95	88
3.00	109	104	101	107	103	100	103	100	97	90
4.00	111	108	105	109	106	103	105	103	101	93
5.00	113	110	107	111	108	106	107	104	103	94
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:20°C
 Operators:NICK
 Test Date:16 October 2023

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:3.100m [K=1.0000]
 Remarks: AGL-560-27X60
 2700K / 60D / 6W / 550LM

ISOCANDELA DIAGRAM

Test:U:23.800V I:0.2246A P:5.3453W PF:1.0000 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:540.12x1 lm		
NAME: AGL-560-27X60	TYPE: MR16 GLOBE	WEIGHT: 100G
SPEC.: AGL-560-27X60	DIM.: 50MM	SERIAL No.:
MFR.: AQUALUX	SUR.:	Shielding Angle:

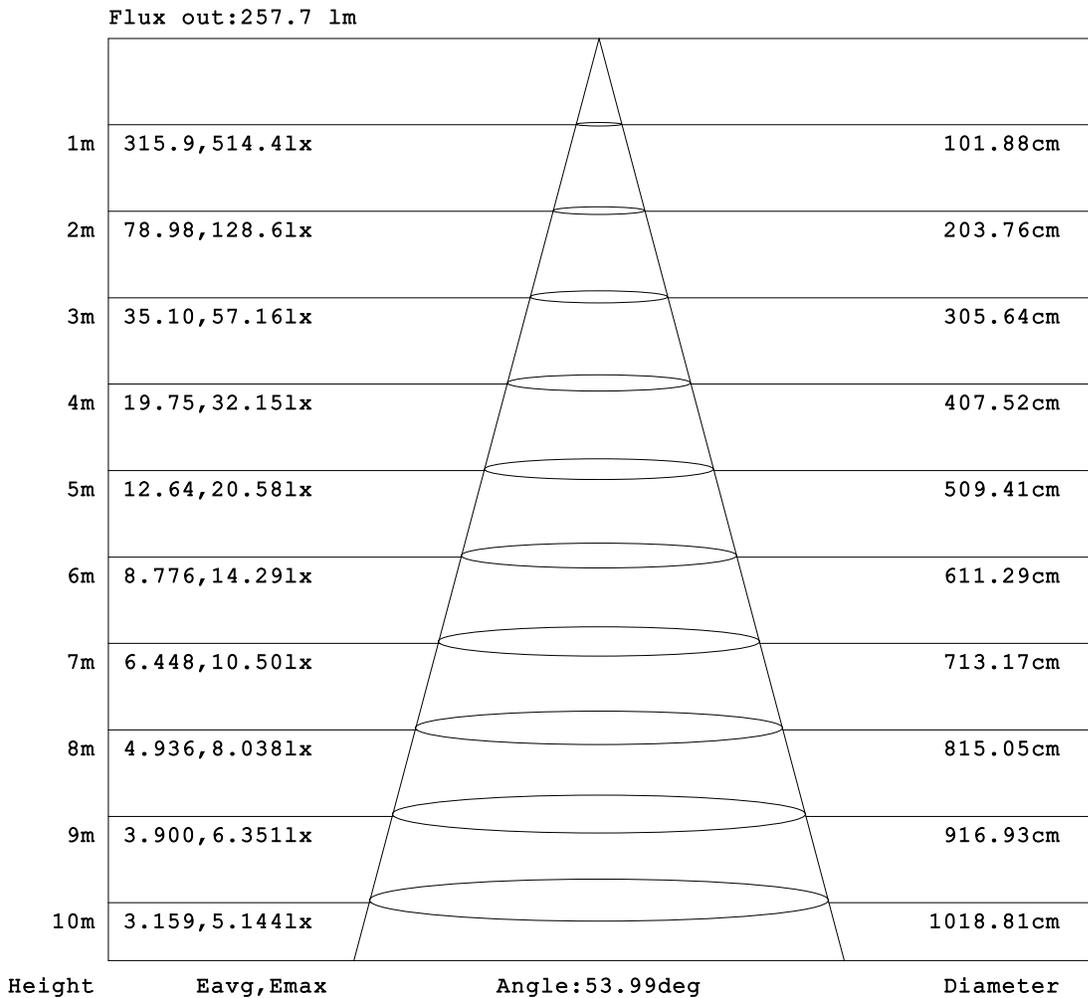


C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:20°C
 Operators:NICK
 Test Date:16 October 2023

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:3.100m [K=1.0000]
 Remarks: AGL-560-27X60
 2700K / 60D / 6W / 550LM

AAI Figure

Test:U:23.800V I:0.2246A P:5.3453W PF:1.0000 Freq:0Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:540.12x1 lm		
NAME: AGL-560-27X60	TYPE: MR16 GLOBE	WEIGHT: 100G
SPEC.: AGL-560-27X60	DIM.: 50MM	SERIAL No.:
MFR.: AQUALUX	SUR.:	Shielding Angle:



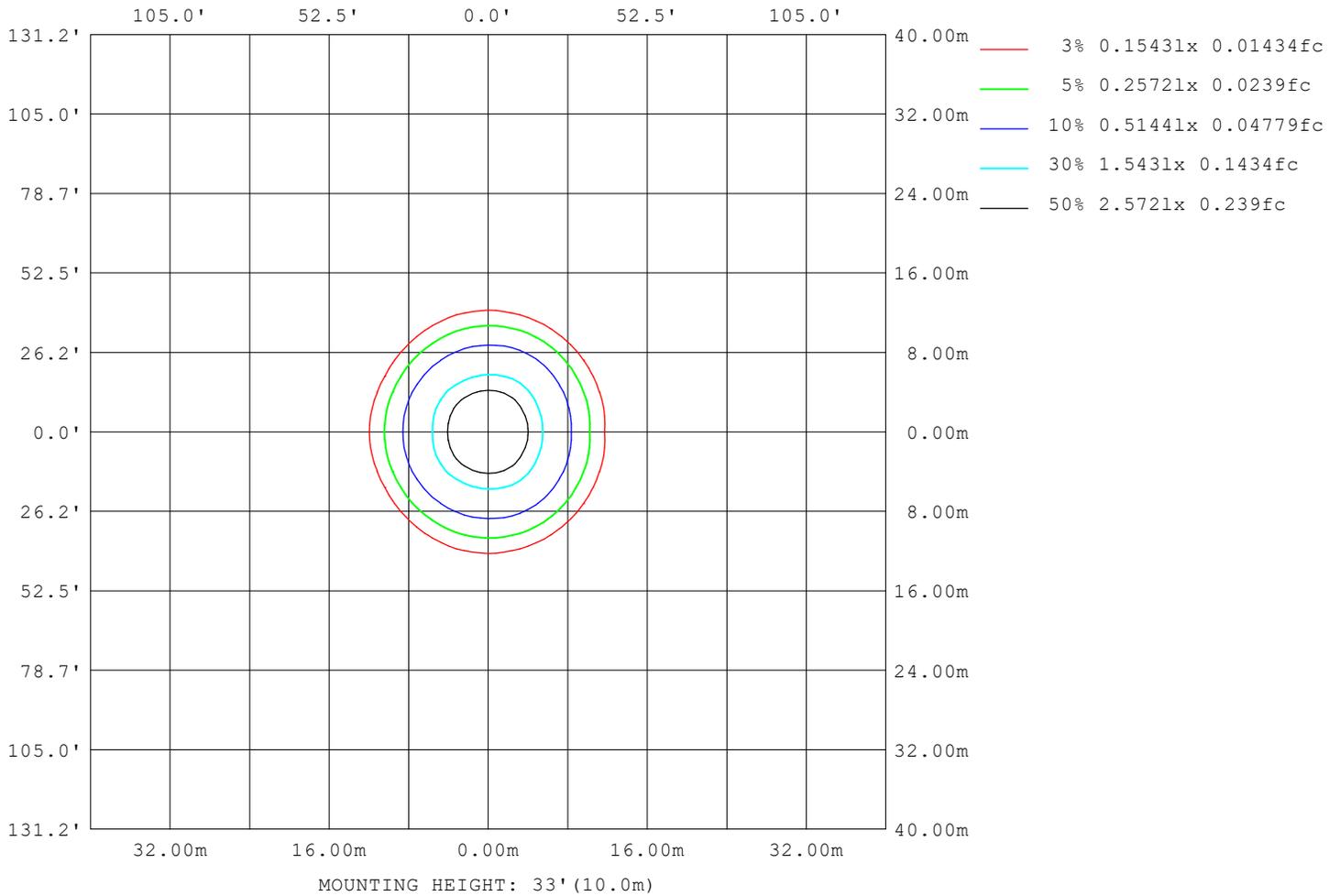
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 20°C
 Operators: NICK
 Test Date: 16 October 2023

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity: 65.0%
 Test Distance: 3.100m [K=1.0000]
 Remarks: AGL-560-27X60
 2700K / 60D / 6W / 550LM

ISOLUX DIAGRAM

Test:U:23.800V I:0.2246A P:5.3453W PF:1.0000 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:540.12x1 lm		
NAME: AGL-560-27X60	TYPE: MR16 GLOBE	WEIGHT: 100G
SPEC.: AGL-560-27X60	DIM.: 50MM	SERIAL No.:
MFR.: AQUALUX	SUR.:	Shielding Angle:



C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:20°C
 Operators:NICK
 Test Date:16 October 2023

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:3.100m [K=1.0000]
 Remarks: AGL-560-27X60
 2700K / 60D / 6W / 550LM

LED Avg.L Report

Test:U:23.800V I:0.2246A P:5.3453W PF:1.0000 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:540.12x1 lm		
NAME: AGL-560-27X60	TYPE: MR16 GLOBE	WEIGHT: 100G
SPEC.: AGL-560-27X60	DIM.: 50MM	SERIAL No.:
MFR.: AQUALUX	SUR.:	Shielding Angle:

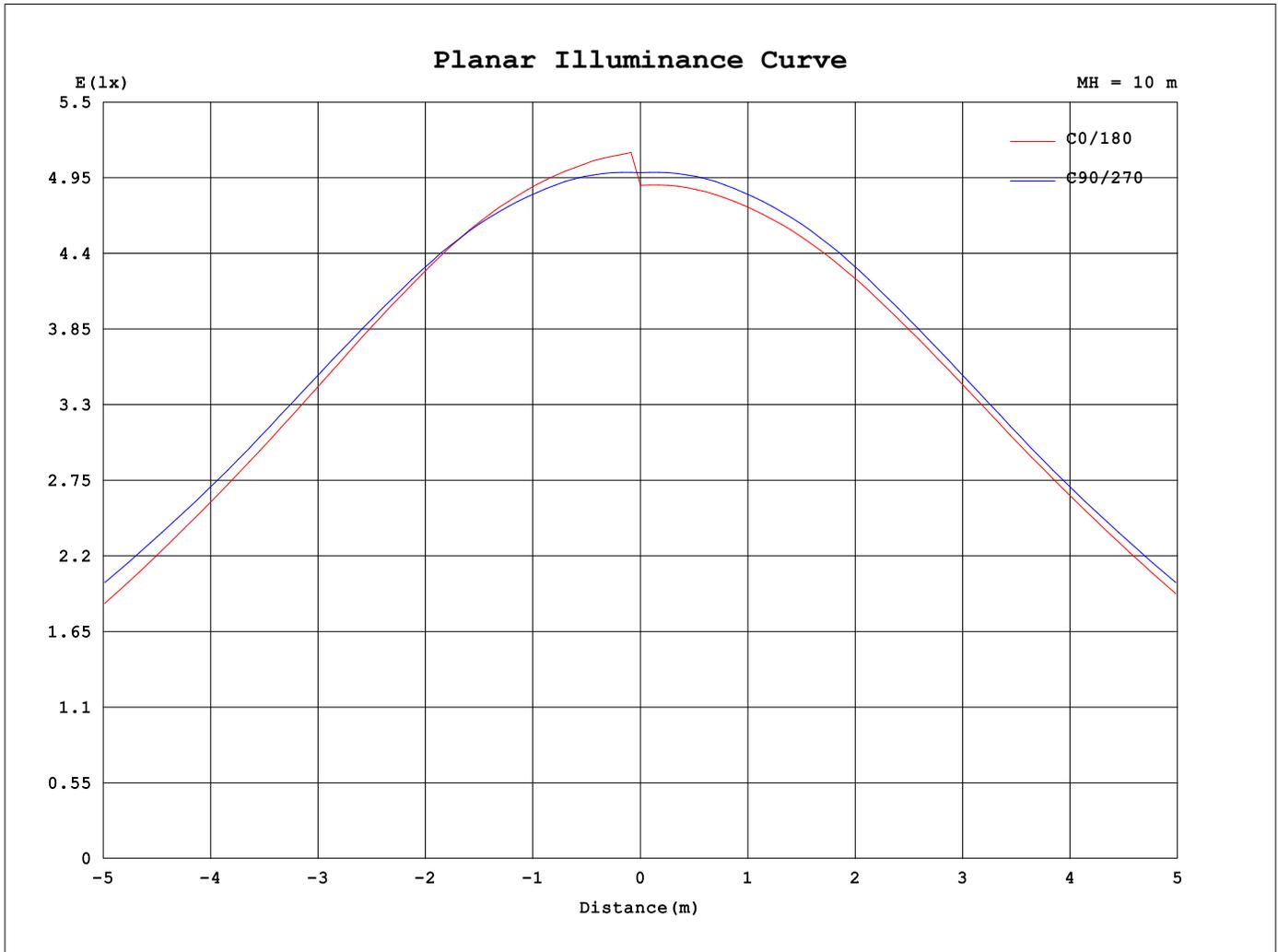
AvgL	cd/m2
L_0~180 (65) av	20901
L_0~180 (75) av	12162
L_0~180 (85) av	12149
L_90~270 (65) av	24635
L_90~270 (75) av	14344
L_90~270 (85) av	17954
L_45 (65) av	21616
L_45 (75) av	12916
L_45 (85) av	15887

Standard: GB/T 29293-2012

C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:20°C
 Operators:NICK
 Test Date:16 October 2023

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:3.100m [K=1.0000]
 Remarks: AGL-560-27X60
 2700K / 60D / 6W / 550LM

Planar Illuminance Curve

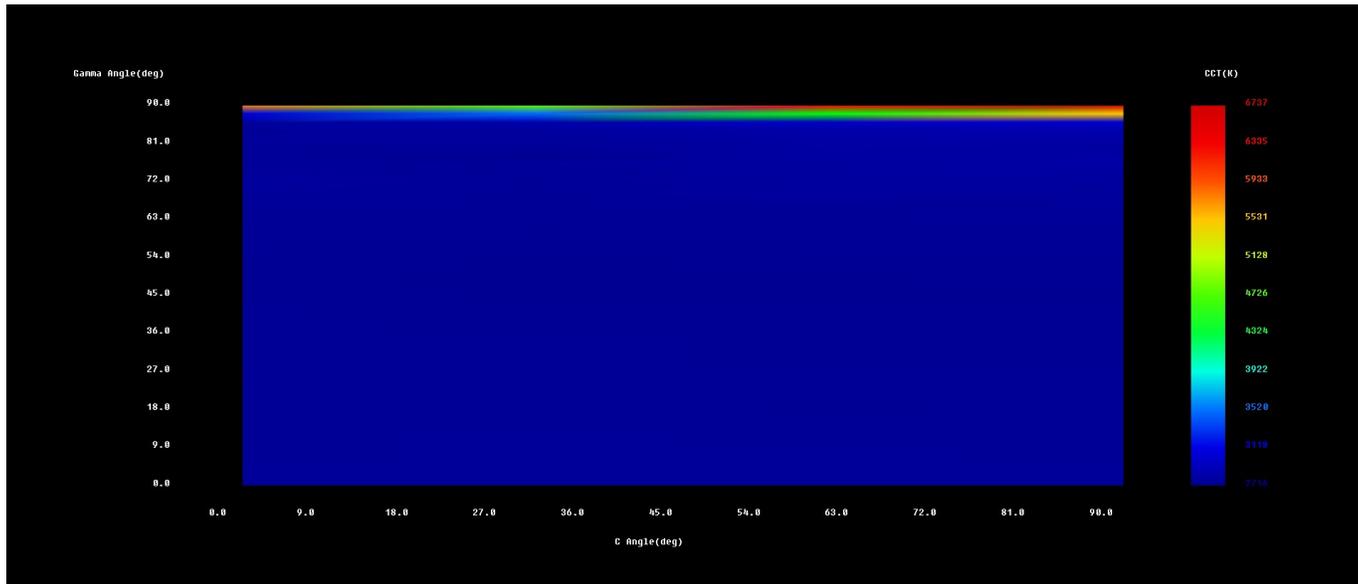


C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 20°C
 Operators: NICK
 Test Date: 16 October 2023

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity: 65.0%
 Test Distance: 3.100m [K=1.0000]
 Remarks: AGL-560-27X60
 2700K / 60D / 6W / 550LM

Spatial Color Distribution Report

NAME: AGL-560-27X60	TYPE: MR16 GLOBE	WEIGHT: 100G
DIM.: 50MM	SPEC.: AGL-560-27X60	SERIAL No.:
MFR.: AQUALUX		



Color Parameters:

Average: $x=0.4607, y=0.4166, u'=0.2604, v'=0.5297$ CCT=2735K Ra=81.4 Rf=84 Rg=92
Center : $x=0.4599, y=0.4165, u'=0.2599, v'=0.5296$ CCT=2745K Ra=81.6 Rf=84 Rg=92
IESNA LM-79-2019 Max. $du'v'$: 0.0013 / max. $du'v'$: 0.0000[Set Range]
GB/T 24824(LB/T 001-2009):: avg. color nonuniformity $du'v'$:0.0005
GB/T 24824(LB/T 001-2009):: max. color nonuniformity $du'v'$:0.0006
Average: R1=80 R2=92 R3=94 R4=78 R5=80 R6=92 R7=80 R8=55 R9=2 R10=83
R11=78 R12=75 R13=83 R14=97 R15=71

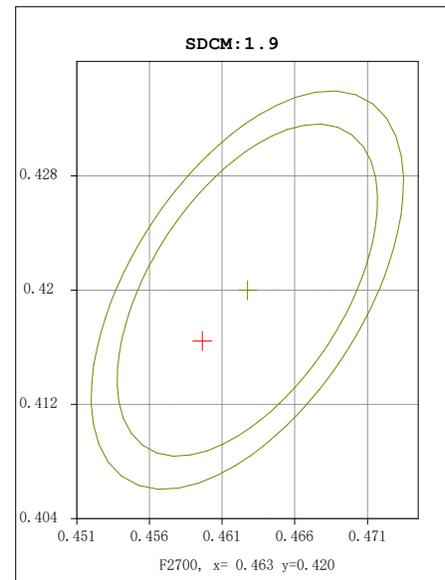
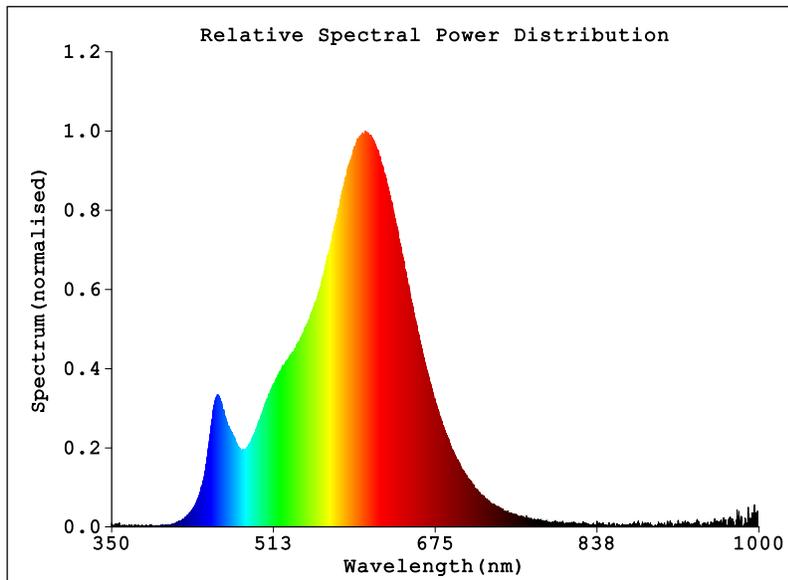
Tester: NICK
Temperature: 20°C
Manufacturer: AQUALUX

Date: 16 October 2023
Humidity: 65.0%
Remarks: AGL-560-27X602700K / 60D / 6W / 550LM

System: GO-SPEX500_V1

Spectral Radiant Test Report

NAME: AGL-560-27X60	TYPE: MR16 GLOBE	WEIGHT: 100G
DIM.: 50MM	SPEC.: AGL-560-27X60	SERIAL No.:
MFR.: AQUALUX		



Photon & Colormetric & Photometric Quantities:

PPFD=0.70967umol/m²/s E_e, PAR=0.14559W/m² K_PPFD, E=0.014284 K_PAR, E=0.0029303
 Chromaticity Coordinates: x=0.4599 y=0.4165/u'=0.2599 v'=0.5296 duv=0.00216
 Tc=2745K Dominant WL: Ld=583.3nm Purity=63.1%
 Ratio: R=24.6% G=73.0% B=2.4% Peak WL: Lp=604.7nm HWL: 111.7nm
 Rendering Index: Ra=81.6 TM-30: Rf=84 Rg=92 CQS: Qa=84.24 TLCI = 69
 R1 =80 R2 =92 R3 =94 R4 =79 R5 =81 R6 =92 R7 =81
 R8 =55 R9 =2 R10=83 R11=78 R12=74 R13=83 R14=97 R15=71
 E = 49.68 lx E_e = 0.1519 W/m²

Status: T=960.00ms Ip=46510 (71%) [HAAS-1200(CAN)]

Electrical: U=23.8V I=0.22431A P=5.3386W PF=1.0000

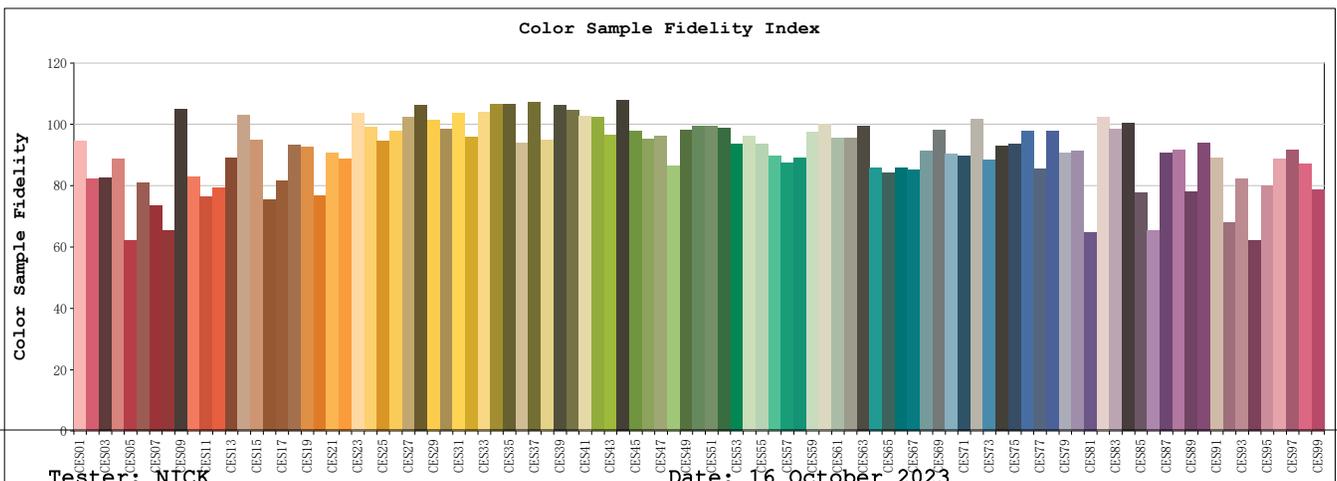
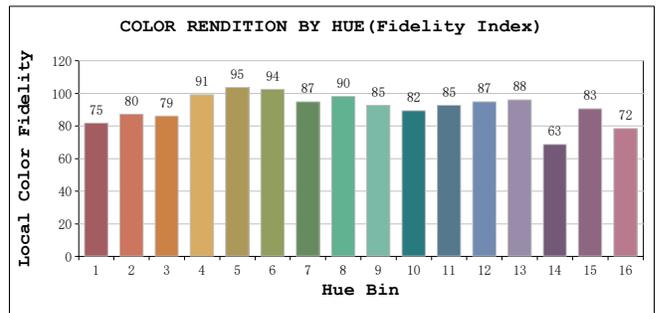
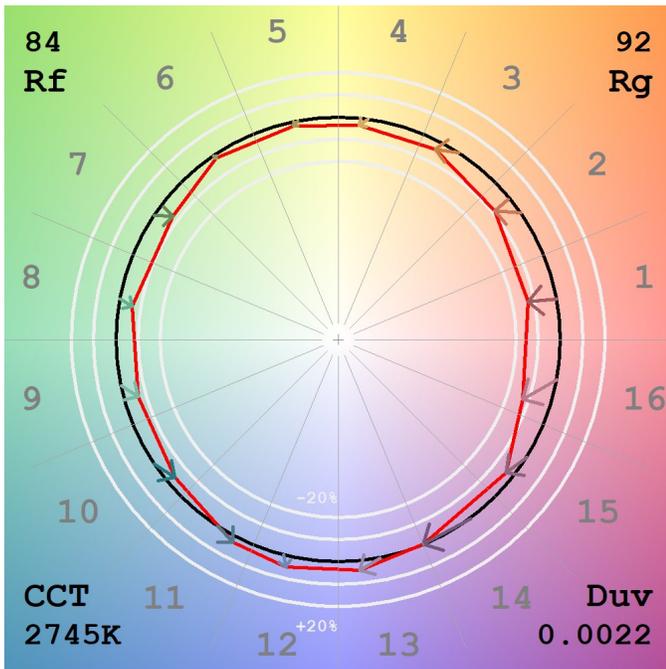
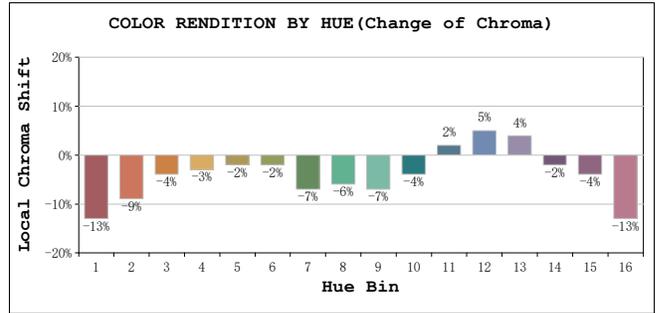
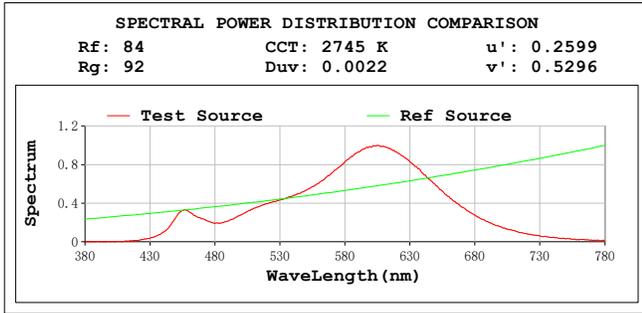
Test position: Center

Tester: NICK
 Temperature: 20°C
 Manufacturer: AQUALUX

Date: 16 October 2023
 Humidity: 65.0%
 Remarks: AGL-560-27X602700K / 60D / 6W / 550LM

System: GO-SPEX500_V1

TM30



Tester: NICK
 Temperature: 20°C
 Manufacturer: AQUALUX
 System: GO-SPEX500_V1

Date: 16 October 2023
 Humidity: 65.0%
 Remarks: AGL-560-27X602700K / 60D / 6W / 550LM

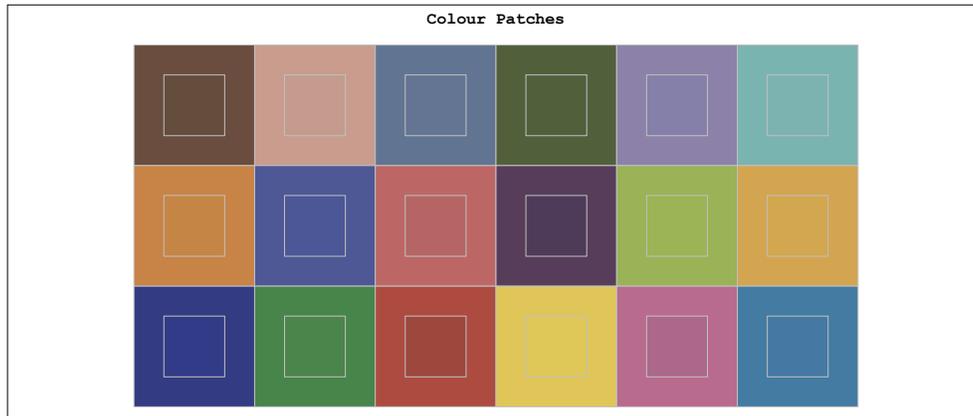
All Rf:

Rf1 = 86.7	Rf2 = 75.4	Rf3 = 75.7
Rf4 = 81.5	Rf5 = 56.9	Rf6 = 74.2
Rf7 = 67.6	Rf8 = 60.1	Rf9 = 96.3
Rf10 = 76.0	Rf11 = 70.1	Rf12 = 72.8
Rf13 = 81.6	Rf14 = 94.4	Rf15 = 87.1
Rf16 = 69.4	Rf17 = 74.9	Rf18 = 85.6
Rf19 = 84.9	Rf20 = 70.3	Rf21 = 83.1
Rf22 = 81.6	Rf23 = 95.1	Rf24 = 91.1
Rf25 = 86.7	Rf26 = 89.7	Rf27 = 93.8
Rf28 = 97.6	Rf29 = 93.1	Rf30 = 90.2
Rf31 = 95.0	Rf32 = 88.0	Rf33 = 95.4
Rf34 = 97.9	Rf35 = 97.7	Rf36 = 86.0
Rf37 = 98.4	Rf38 = 87.0	Rf39 = 97.6
Rf40 = 96.0	Rf41 = 94.1	Rf42 = 93.8
Rf43 = 88.5	Rf44 = 98.9	Rf45 = 89.8
Rf46 = 87.3	Rf47 = 88.3	Rf48 = 79.2
Rf49 = 89.9	Rf50 = 91.2	Rf51 = 91.2
Rf52 = 90.6	Rf53 = 86.0	Rf54 = 88.2
Rf55 = 85.9	Rf56 = 82.3	Rf57 = 80.3
Rf58 = 81.6	Rf59 = 89.5	Rf60 = 91.9
Rf61 = 87.7	Rf62 = 87.7	Rf63 = 91.3
Rf64 = 78.8	Rf65 = 77.1	Rf66 = 78.8
Rf67 = 78.1	Rf68 = 83.7	Rf69 = 89.9
Rf70 = 82.9	Rf71 = 82.4	Rf72 = 93.4
Rf73 = 81.1	Rf74 = 85.3	Rf75 = 86.0
Rf76 = 89.8	Rf77 = 78.4	Rf78 = 89.7
Rf79 = 83.3	Rf80 = 83.9	Rf81 = 59.2
Rf82 = 94.0	Rf83 = 90.4	Rf84 = 92.2
Rf85 = 71.3	Rf86 = 59.9	Rf87 = 83.2
Rf88 = 84.2	Rf89 = 71.7	Rf90 = 86.1
Rf91 = 81.6	Rf92 = 62.3	Rf93 = 75.4
Rf94 = 56.9	Rf95 = 73.5	Rf96 = 81.3
Rf97 = 84.2	Rf98 = 79.9	Rf99 = 72.3

Tester: NICK
Temperature: 20°C
Manufacturer: AQUALUX

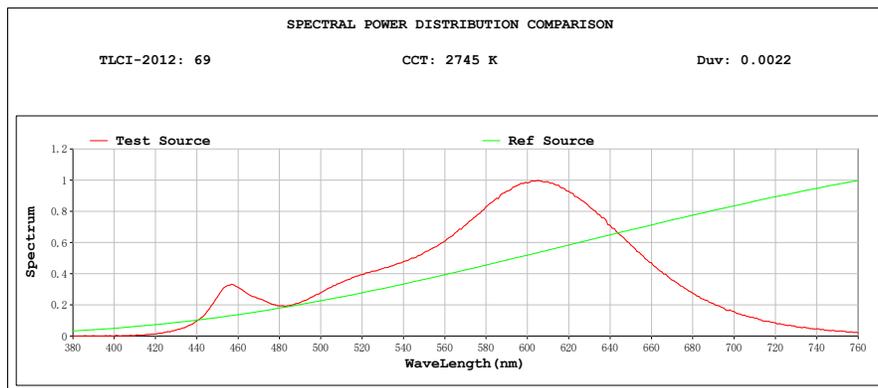
Date: 16 October 2023
Humidity: 65.0%
Remarks: AGL-560-27X602700K / 60D / 6W / 550LM

System: GO-SPEX500_V1



Colourist's Advice Report

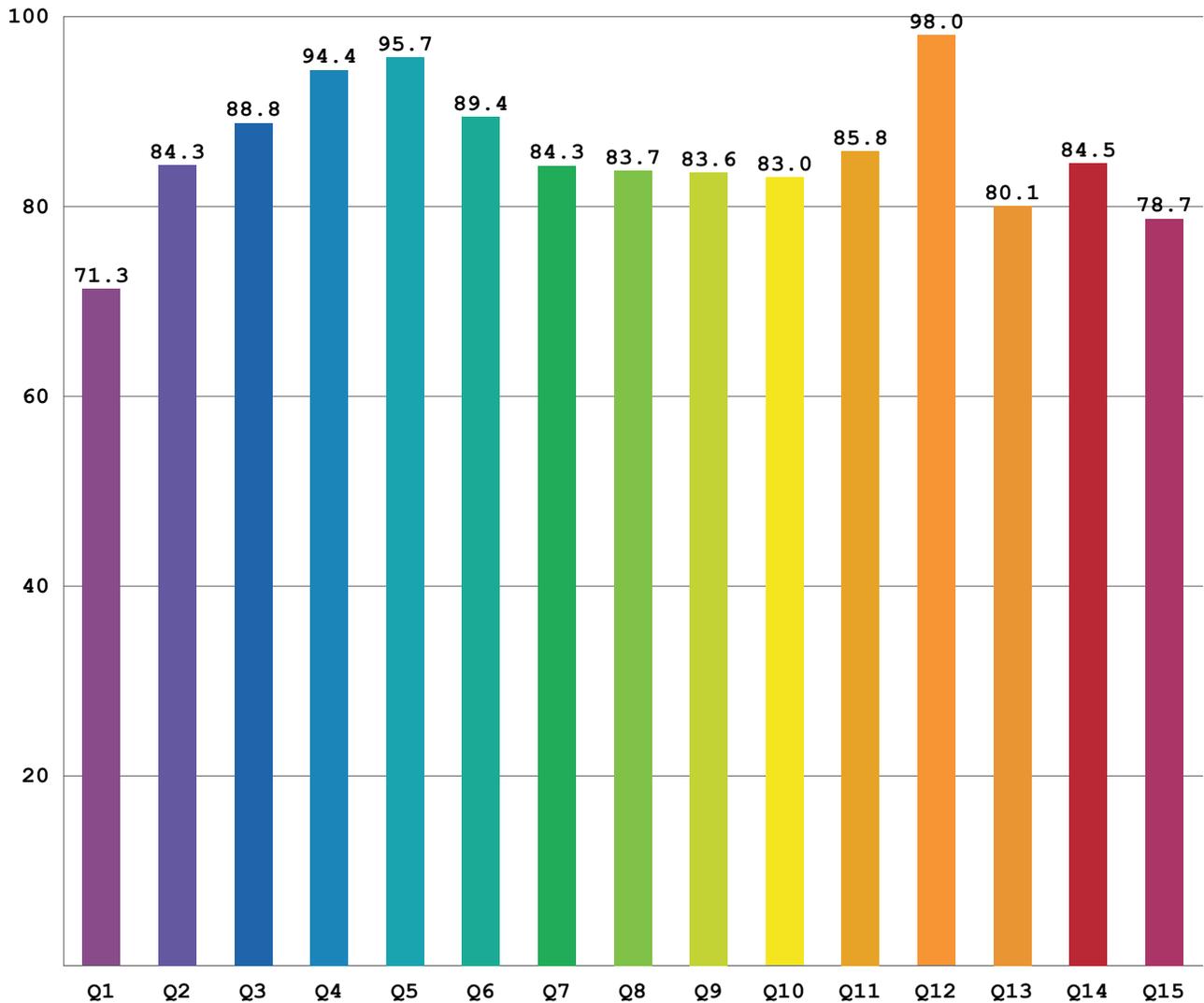
Sector	Lightness	Chroma	Hue
R	-4	-2	0
R/Y	-1	-2	3
Y	0	0	2
Y/G	0	0	0
G	1	-1	-1
G/C	0	-1	-1
C	0	-1	0
C/B	-1	1	3
B	0	1	1
B/M	-2	1	-4
M	-3	-2	-5
M/R	-5	-2	-3



Tester: NICK
 Temperature: 20°C
 Manufacturer: AQUALUX
 System: GO-SPEX500_V1

Date: 16 October 2023
 Humidity: 65.0%
 Remarks: AGL-560-27X602700K / 60D / 6W / 550LM

CQS: 84.2



Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
71.3	84.3	88.8	94.4	95.7	89.4	84.3	83.7	83.6	83.0	85.8	98.0	80.1	84.5	78.7

Tester: NICK
 Temperature: 20°C
 Manufacturer: AQUALUX

Date: 16 October 2023
 Humidity: 65.0%
 Remarks: AGL-560-27X602700K / 60D / 6W / 550LM

System: GO-SPEX500_V1

