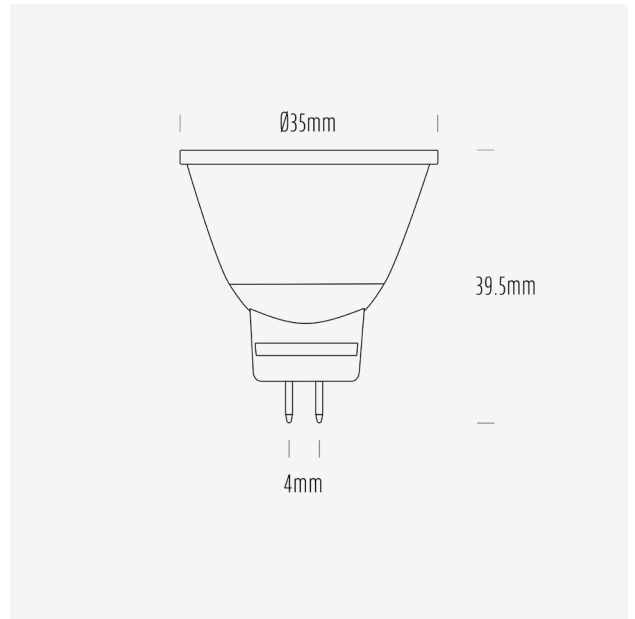


AGL 180 Series

MR11 LED Globes



AGL-180-27N40 / 2700K / MR11 / 40°



Product Data

Product Code	AGL-180-27N40		
Description	Aqualux 180 Series LED Lamp		
Type	MR11 GU4		
Construction	Aluminium Heatsink + PMMA Optic		
Warranty	3 Years		

Electrical Data

Input Voltage Range	24V AC/DC		
Nominal Voltage	24VDC		
Nominal Power	3W		
Nominal Current	125mA		
Input Voltage	-	-	24VDC 24VAC
Rated Power	-	-	2.2 2.3
Operating Frequency	-	-	- 50Hz
Max. no. of lamps on AQD24-040	-	-	- -
Max. no. of lamps on AQD24-100	-	-	- -
Max. no. of lamps on AQD24-240	-	-	- -
Dimming Compatibility	Non dimming		
Wiring Scheme	Parallel		
Startup Time	< 0.5s		

Mechanical & Thermal Data

Overall Length	39.5mm
Max Diameter	35mm
Lamp Base	GU4
Weight	21g
Operating Temp Range	-20° - 45°
IP Rating	IP20

Photometric Data

Nominal Flux (lm)	180
Input Voltage	- - 24VDC 24VAC
Input Power (W)	- - 2.2 2.3
Rated Flux (lm)	- - 240 251
Efficacy (lm/W)	- - 109 107
CCT	2700K
CCT Description	Warm White
CRI (Ra)	84
CRI (R9)	13
TM-30 (Rf)	85
TM-30 (Rg)	97
SDCM	-
Peak Intensity (cd)	470
Nominal Beam Angle	40°
Measured Beam Angle (FWHM)	35°

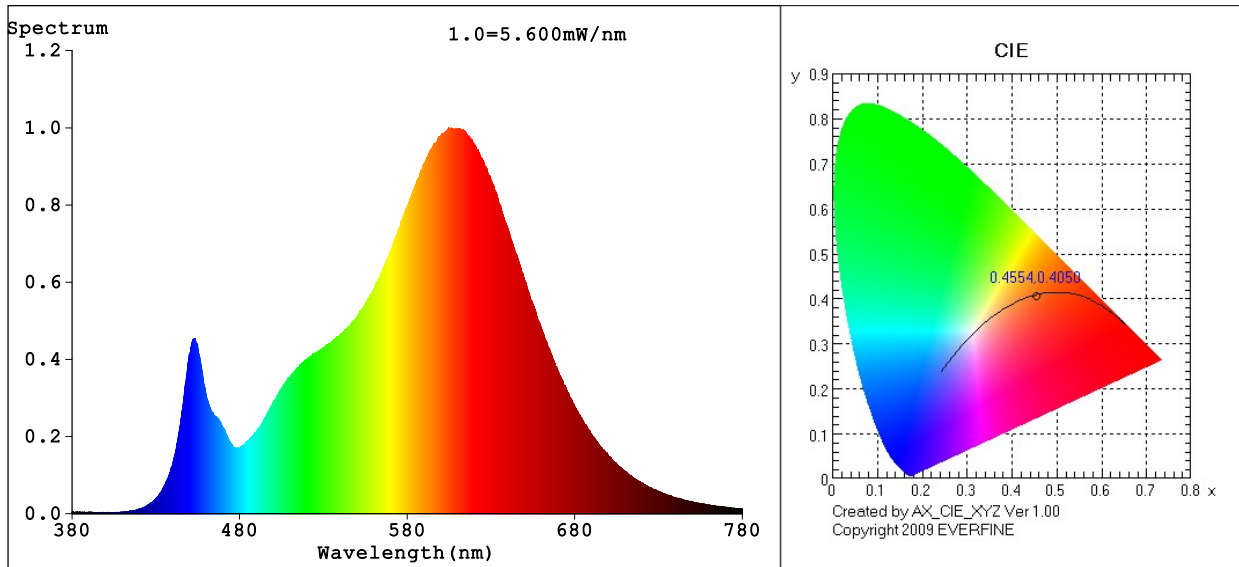
Lifespan Data

L70	15,000h
Switching Cycles	15,000

Compliance Data

EMI	Yes
RCM	N/A
Mercury Content	0mg

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4554$ $y=0.4050$ / $u'=0.2621$ $v'=0.5245$
 CCT=2720K (Duv=-0.0017) Dominant WL:Ld =584.7nm WL:Lc = --nm Purity=58.3%
 Ratio:R=25.5% G=72.1% B=2.5%; Peak WL:Lp=604.8nm FWHM=110.3nm
 Render Index:Ra=84.1 AvgR=79.8 TM30:Rf=85 Rg=97

R1 =84 R2 =94 R3 =93 R4 =83 R5 =85 R6 =95 R7 =81
 R8 =59 R9 =13 R10=88 R11=84 R12=81 R13=87 R14=97 R15=76

Photo Parameters:

Flux = 250.8 lm Eff. : 106.85 lm/W Fe = 778.7 mW

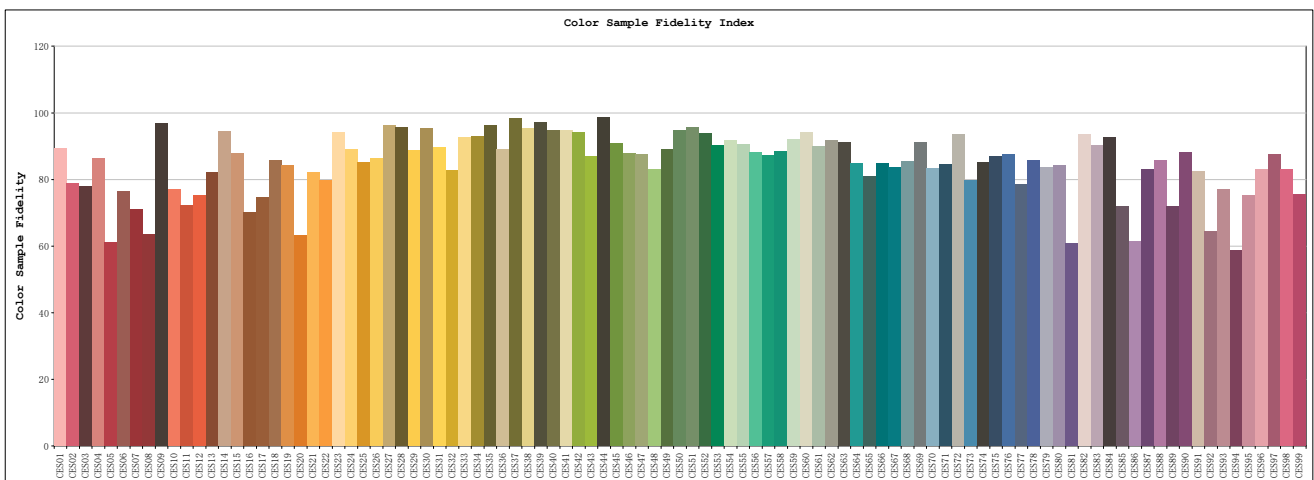
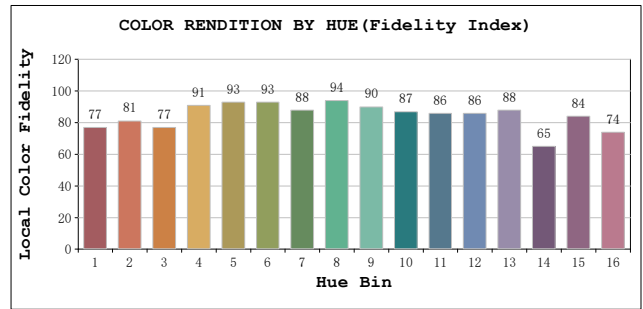
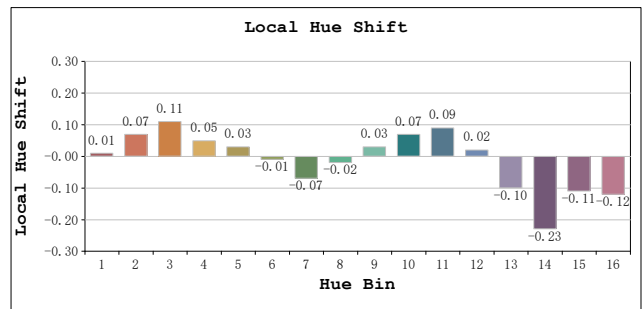
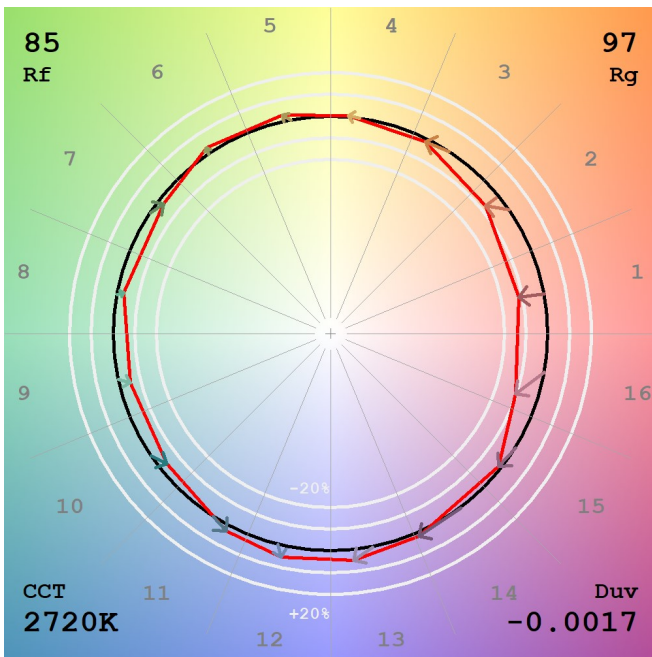
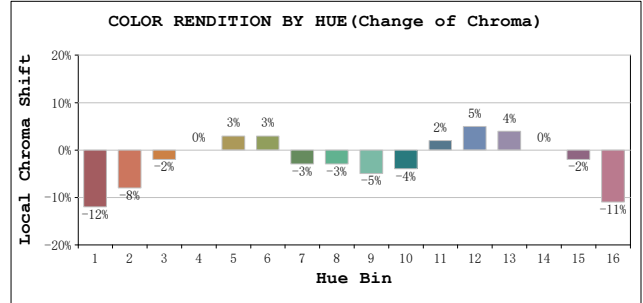
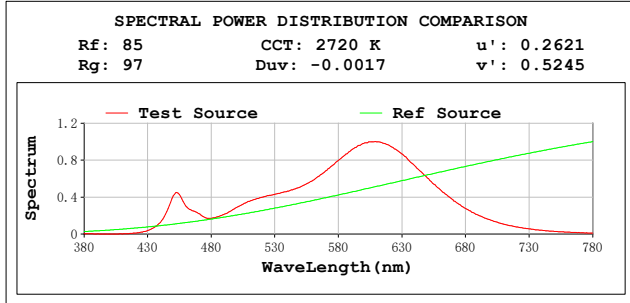
Electrical parameters:

V = 23.978 V I = 0.1977 A P = 2.347 W PF = 0.4951
 LEVEL:OUT WHITE:ANSI_2700K
 Status: Integral T = 443 ms Ip = 50773 (77%)

GBT5702

TM30

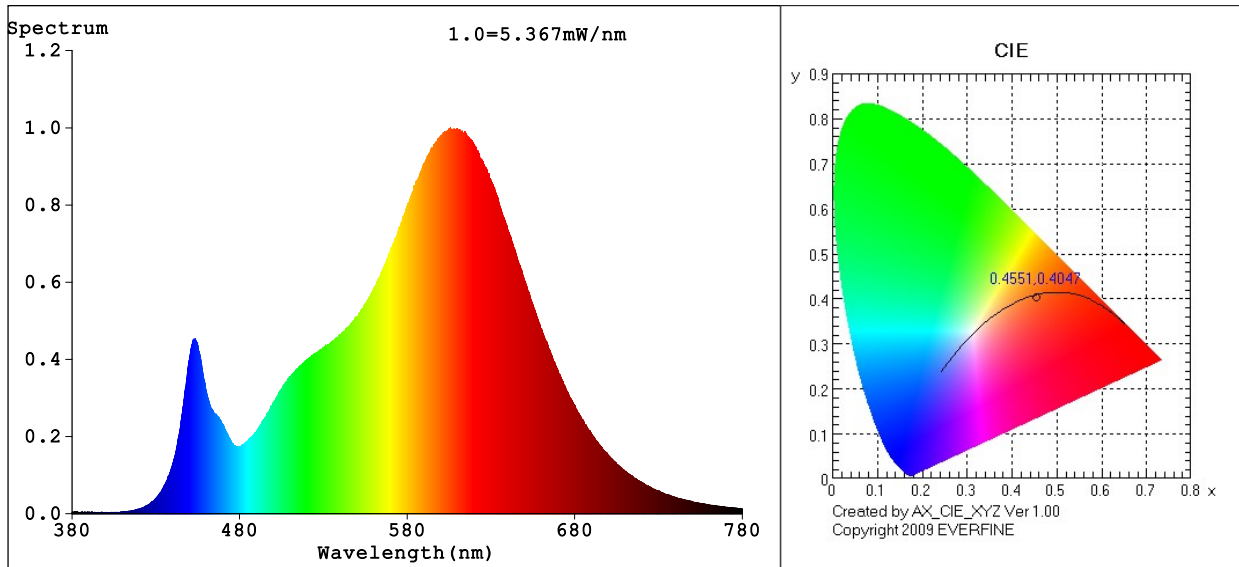
View Angle:2 Deg



Model:AGL-180-27N40
 Tester:EC
 Temperature:25.3Deg
 Manufacturer:AQUALUX

Number:AGL-180-27N40
 Date:2023-11-14 09:48:50
 Humidity:65.0%
 Remarks:24V AC

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4551$ $y=0.4047$ / $u'=0.2621$ $v'=0.5244$
 CCT=2721K (Duv=-0.0018) Dominant WL:Ld =584.7nm WL:Lc = --nm Purity=58.1%
 Ratio:R=25.4% G=72.1% B=2.5%; Peak WL:Lp=605.8nm FWHM=110.6nm
 Render Index:Ra=84.1 AvgR=79.8 TM30:Rf=85 Rg=97

R1 =84 R2 =95 R3 =93 R4 =82 R5 =85 R6 =95 R7 =81
 R8 =59 R9 =13 R10=88 R11=83 R12=81 R13=87 R14=97 R15=76

Photo Parameters:

Flux = 240.2 lm Eff. : 108.56 lm/W Fe = 746.4 mW

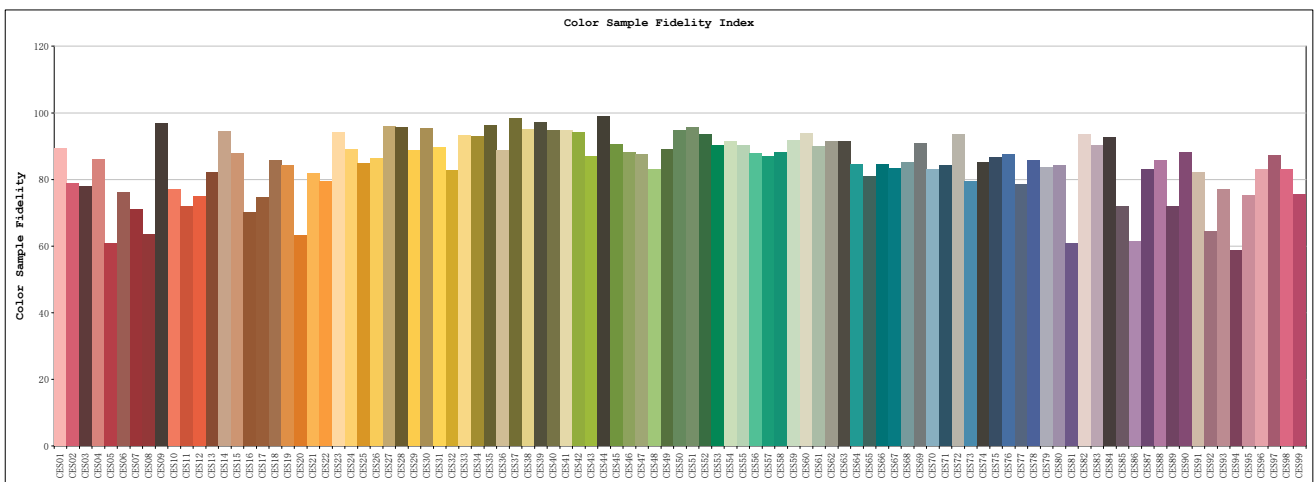
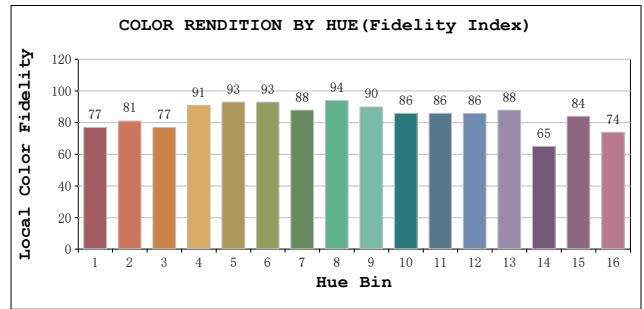
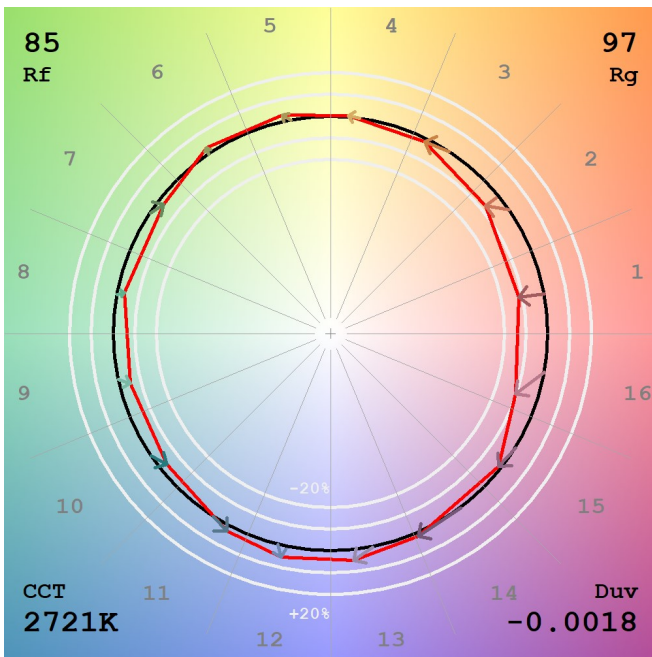
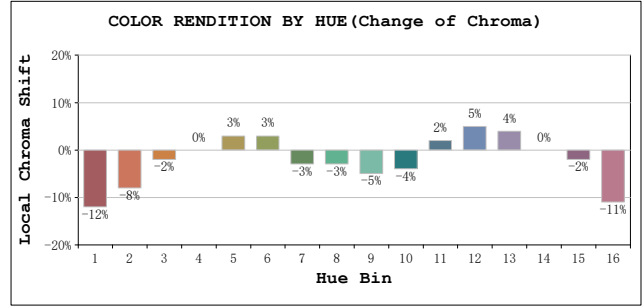
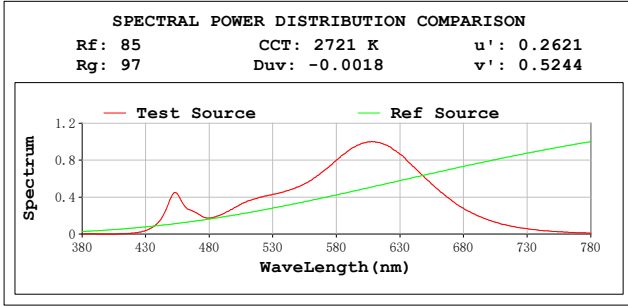
Electrical parameters:

V = 23.981 V I = 0.09225 A P = 2.212 W PF = 1.0000
 LEVEL:OUT WHITE:ANSI_2700K
 Status: Integral T = 464 ms Ip = 50815 (78%)

GBT5702

TM30

View Angle: 2 Deg



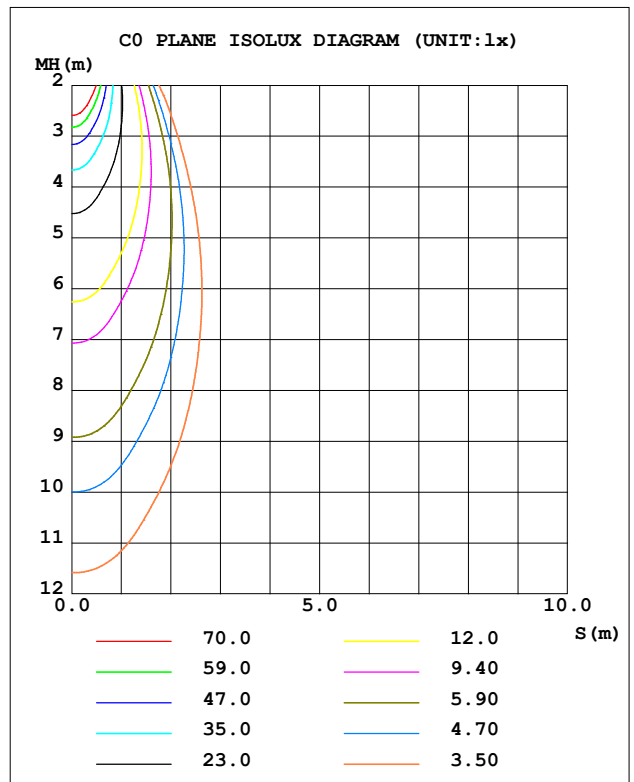
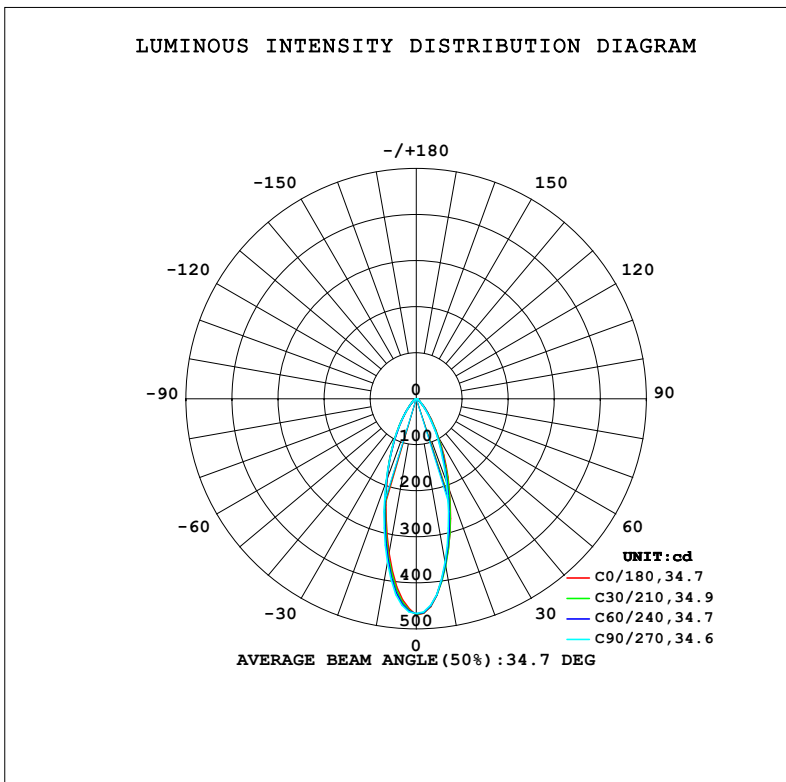
Model:AGL-180-27N40
 Tester:EC
 Temperature:25.3Deg
 Manufacturer:AQUALUX

Number:AGL-180-27N40
 Date:2023-11-10 16:47:51
 Humidity:65.0%
 Remarks:24V DC

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.918V I:0.0905A P:2.1658W PF:1.0000 Freq:0Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:239.272x1 lm		
NAME: AGL-180-27N40	TYPE: MR11 LAMP	WEIGHT:
SPEC.: AGL-180-27N40	DIM.:	SERIAL No.: -
MFR.: AQUALUX	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	LED	I _{max} (cd)	469.7	S/MH (C0/180)	0.53
NOMINAL POWER (W)	3	LOR (%)	100.0	S/MH (C90/270)	0.56
RATED VOLTAGE (V)	24	TOTAL FLUX (lm)	239.27	η UP, DN (C0-180)	0.0, 50.2
NOMINAL FLUX (lm)	239.272	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.8
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	24	η down (%)	100.0	CIBSE SHR MAX	0.65



C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 20°C
 Operators: Elaine
 Test Date: 10 November 2023

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity: 65.0%
 Test Distance: 3.100m [K=1.0000]
 Remarks: AGL-180-27N40
 3W / 2700K
 24V DC

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

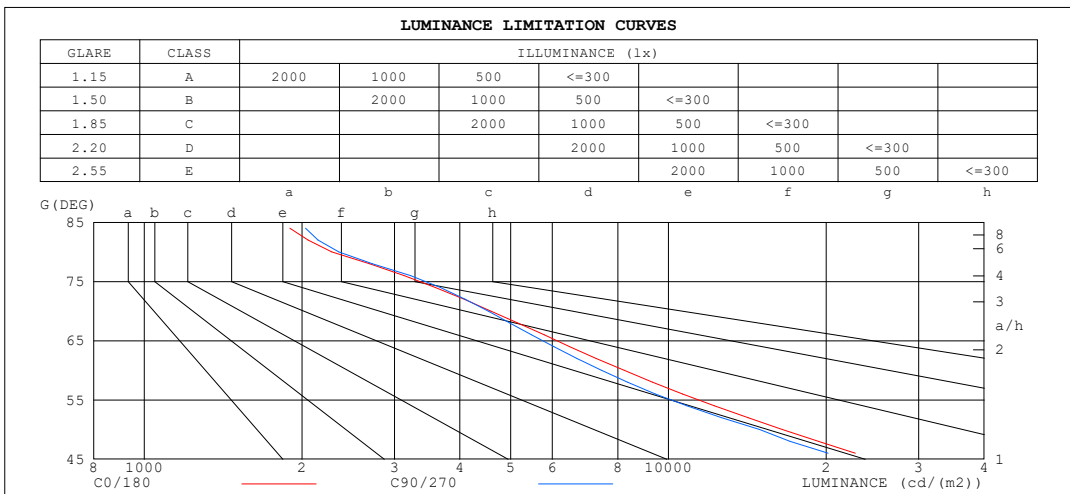
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	∅ zone	∅ total	%lum,lamp
10	365.8	368.1	360.1	352.8	340.9	352.8	360.1	368.1	0- 10	39.17	39.17	16.4,16.4
20	210.5	204.4	191.8	190.7	185.9	190.7	191.8	204.4	10- 20	75.48	114.7	47.9,47.9
30	97.08	91.47	86.13	85.34	84.72	85.34	86.13	91.47	20- 30	62.46	177.1	74,74
40	38.20	34.95	32.28	31.94	31.71	31.94	32.28	34.95	30- 40	35.17	212.3	88.7,88.7
50	13.31	11.96	12.05	11.01	11.84	11.01	12.05	11.96	40- 50	15.85	228.1	95.3,95.3
60	5.172	4.444	4.681	4.176	4.692	4.176	4.681	4.444	50- 60	6.739	234.9	98.2,98.2
70	1.968	1.711	1.946	1.720	2.113	1.720	1.946	1.711	60- 70	2.992	237.9	99.4,99.4
80	0.4972	0.4870	0.5122	0.5078	0.6308	0.5078	0.5122	0.4870	70- 80	1.164	239.0	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	0.2420	239.3	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		

C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:20°C
 Operators:Elaine
 Test Date:10 November 2023

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:3.100m [K=1.0000]
 Remarks: AGL-180-27N40
 3W / 2700K
 24V DC

LUMINANCE LIMITATION CURVES

Test:U:23.918V I:0.0905A P:2.1658W PF:1.0000 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:239.272x1 lm		
NAME: AGL-180-27N40	TYPE: MR11 LAMP	WEIGHT:
SPEC.: AGL-180-27N40	DIM.:	SERIAL No.: -
MFR.: AQUALUX	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2273	2435
80	2280	2348
75	3822	3908
70	4582	4531
65	6718	6265
60	8236	7453
55	12546	11114
50	16481	14920
45	27415	24224

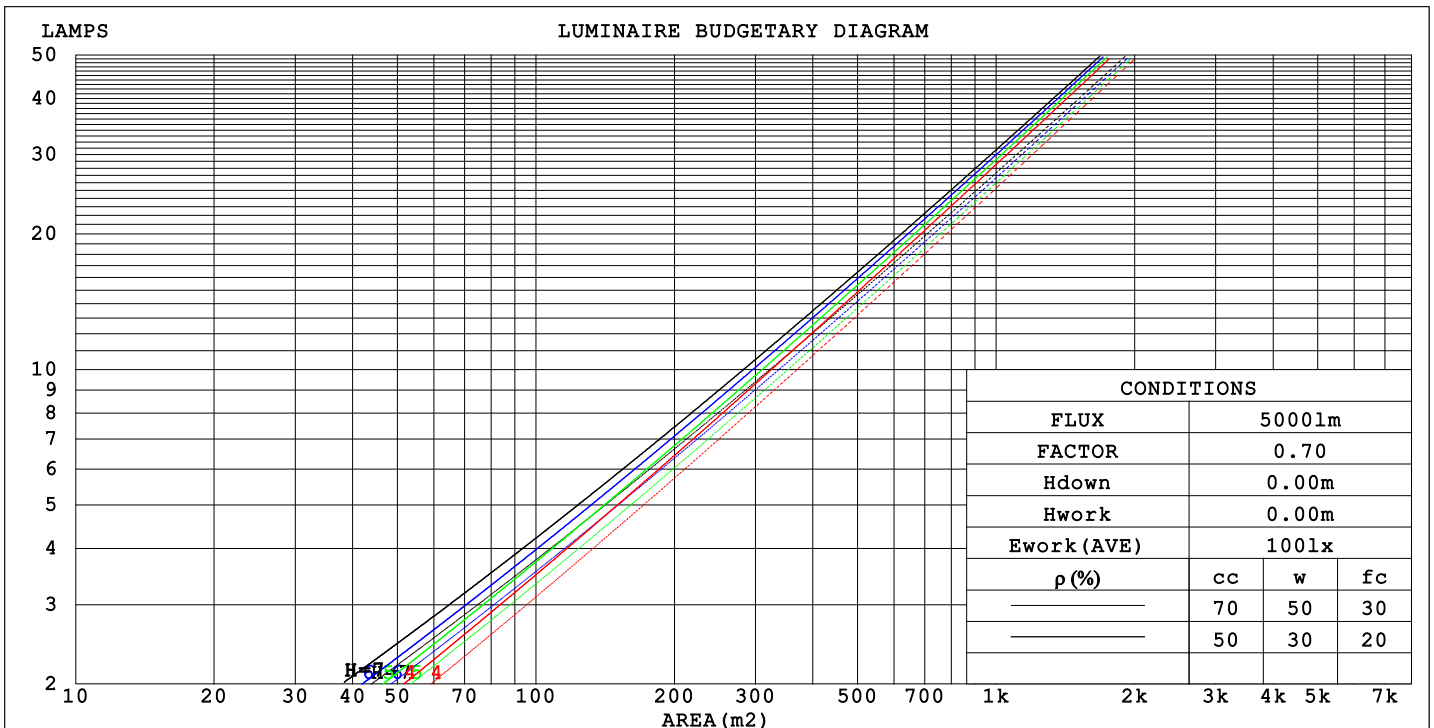
C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 20°C
 Operator: Elaine
 Test Date: 10 November 2023

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity: 65.0%
 Test Distance: 3.100m [K=1.0000]
 Remarks: AGL-180-27N40
 3W / 2700K
 24V DC

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.918V I:0.0905A P:2.1658W PF:1.0000 Freq:0Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:239.272x1 lm		
NAME: AGL-180-27N40	TYPE: MR11 LAMP	WEIGHT:
SPEC.: AGL-180-27N40	DIM.:	SERIAL No.: -
MFR.: AQUALUX	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	
p _w																
p _{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	1.11	1.08	1.06	1.09	1.06	1.04	1.05	1.03	1.01	1.01	.99	.98	.97	.96	.95	.94
2.0	1.03	.99	.96	1.02	.98	.95	.98	.95	.93	.95	.93	.91	.93	.91	.89	.87
3.0	.97	.92	.88	.95	.91	.87	.93	.89	.86	.90	.87	.84	.88	.85	.83	.81
4.0	.91	.85	.81	.89	.84	.81	.87	.83	.80	.85	.82	.79	.83	.80	.78	.76
5.0	.85	.80	.75	.84	.79	.75	.83	.78	.74	.81	.77	.74	.79	.76	.73	.72
6.0	.80	.75	.71	.80	.74	.70	.78	.73	.70	.77	.73	.69	.75	.72	.69	.67
7.0	.76	.70	.66	.75	.70	.66	.74	.69	.66	.73	.69	.65	.72	.68	.65	.64
8.0	.72	.67	.63	.72	.66	.62	.71	.66	.62	.70	.65	.62	.69	.65	.62	.60
9.0	.69	.63	.59	.68	.63	.59	.67	.62	.59	.66	.62	.59	.66	.62	.59	.57
10.0	.65	.60	.56	.65	.60	.56	.64	.59	.56	.64	.59	.56	.63	.59	.56	.55



C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 20°C
 Operators: Elaine
 Test Date: 10 November 2023

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity: 65.0%
 Test Distance: 3.100m [K=1.0000]
 Remarks: AGL-180-27N40
 3W / 2700K
 24V DC

WEC AND CCEC

Test:U:23.918V I:0.0905A P:2.1658W PF:1.0000 Freq:0Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:239.272x1 lm		
NAME: AGL-180-27N40	TYPE: MR11 LAMP	WEIGHT:
SPEC.: AGL-180-27N40	DIM.:	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	.177	.101	.032	.170	.097	.031	.158	.091	.029	.146	.084	.027	.136	.079	.025	
2.0	.169	.093	.028	.163	.090	.028	.153	.085	.026	.143	.080	.025	.134	.076	.024	
3.0	.160	.085	.026	.155	.083	.025	.146	.079	.024	.138	.076	.023	.130	.072	.022	
4.0	.152	.079	.023	.147	.077	.023	.140	.074	.022	.132	.071	.021	.126	.068	.021	
5.0	.144	.073	.021	.140	.072	.021	.133	.069	.020	.127	.067	.020	.121	.065	.019	
6.0	.136	.068	.020	.133	.067	.019	.127	.065	.019	.122	.063	.019	.117	.061	.018	
7.0	.130	.064	.018	.127	.063	.018	.122	.062	.018	.117	.060	.017	.112	.058	.017	
8.0	.124	.061	.017	.121	.060	.017	.117	.058	.017	.112	.057	.016	.108	.056	.016	
9.0	.118	.057	.016	.116	.057	.016	.112	.055	.016	.108	.054	.016	.104	.053	.015	
10.0	.113	.054	.015	.111	.054	.015	.108	.053	.015	.104	.052	.015	.101	.051	.015	

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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.133	.099	.073	.114	.085	.063	.078	.060	.045	.045	.035	.026	.015	.011	.009	
5.0	.124	.087	.060	.106	.075	.052	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.116	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.109	.070	.043	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.103	.064	.037	.089	.055	.032	.062	.039	.023	.036	.023	.013	.012	.008	.004	
9.0	.098	.059	.032	.085	.051	.028	.059	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.093	.054	.028	.081	.047	.024	.056	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:20°C
 Operators:Elaine
 Test Date:10 November 2023

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:3.100m [K=1.0000]
 Remarks: AGL-180-27N40
 3W / 2700K
 24V DC

UGR(Unified Glare Rating) Table

Test:U:23.918V I:0.0905A P:2.1658W PF:1.0000 Freq:0Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:239.272x1 lm		
NAME: AGL-180-27N40	TYPE: MR11 LAMP	WEIGHT:
SPEC.: AGL-180-27N40	DIM.:	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	23.4	24.3	23.6	24.5	24.6	23.0	24.0	23.3	24.1	24.3
			3H	23.4	24.3	23.7	24.5	24.7	23.1	24.0	23.4	24.2	24.4
			4H	23.4	24.2	23.7	24.4	24.6	23.1	23.9	23.4	24.1	24.4
			6H	23.3	24.1	23.6	24.3	24.6	23.1	23.8	23.4	24.1	24.3
			8H	23.3	24.0	23.6	24.3	24.6	23.1	23.8	23.4	24.0	24.3
			12H	23.3	24.0	23.6	24.2	24.5	23.0	23.7	23.3	24.0	24.3
	4H		2H	23.3	24.1	23.6	24.3	24.5	23.0	23.8	23.2	24.0	24.2
			3H	23.4	24.1	23.7	24.3	24.6	23.1	23.8	23.4	24.1	24.3
			4H	23.4	24.0	23.7	24.3	24.6	23.1	23.8	23.5	24.1	24.4
			6H	23.3	23.9	23.7	24.2	24.6	23.1	23.7	23.5	24.0	24.3
			8H	23.3	23.8	23.7	24.2	24.5	23.1	23.6	23.5	23.9	24.3
			12H	23.3	23.7	23.7	24.1	24.5	23.0	23.5	23.5	23.9	24.3
	8H		4H	23.3	23.8	23.7	24.1	24.5	23.0	23.6	23.4	23.9	24.3
			6H	23.2	23.7	23.7	24.1	24.5	23.0	23.5	23.5	23.8	24.3
			8H	23.2	23.6	23.7	24.0	24.4	23.0	23.4	23.5	23.8	24.2
			12H	23.2	23.5	23.7	24.0	24.4	23.0	23.3	23.5	23.7	24.2
	12H		4H	23.2	23.7	23.6	24.1	24.4	23.0	23.5	23.4	23.8	24.2
			6H	23.2	23.6	23.6	24.0	24.4	23.0	23.4	23.4	23.8	24.2
			8H	23.2	23.5	23.6	23.9	24.4	23.0	23.3	23.4	23.7	24.2

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 2.1 / - 3.4	+ 1.7 / - 3.1
1.5H	+ 3.3 / - 3.1	+ 2.7 / - 2.4
2.0H	+ 3.8 / - 3.2	+ 3.3 / - 2.5

CIE Pub.117, 239.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -5.0)
 Area: 0.001256 m2

C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:20°C
 Operators:Elaine
 Test Date:10 November 2023

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:3.100m [K=1.0000]
 Remarks: AGL-180-27N40
 3W / 2700K
 24V DC

UTILIZATION FACTORS TABLE

Test:U:23.918V I:0.0905A P:2.1658W PF:1.0000 Freq:0Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:239.272x1 lm		
NAME: AGL-180-27N40	TYPE: MR11 LAMP	WEIGHT:
SPEC.: AGL-180-27N40	DIM.:	SERIAL No.: -
MFR.: AQUALUX	SUR.:	Shielding Angle:

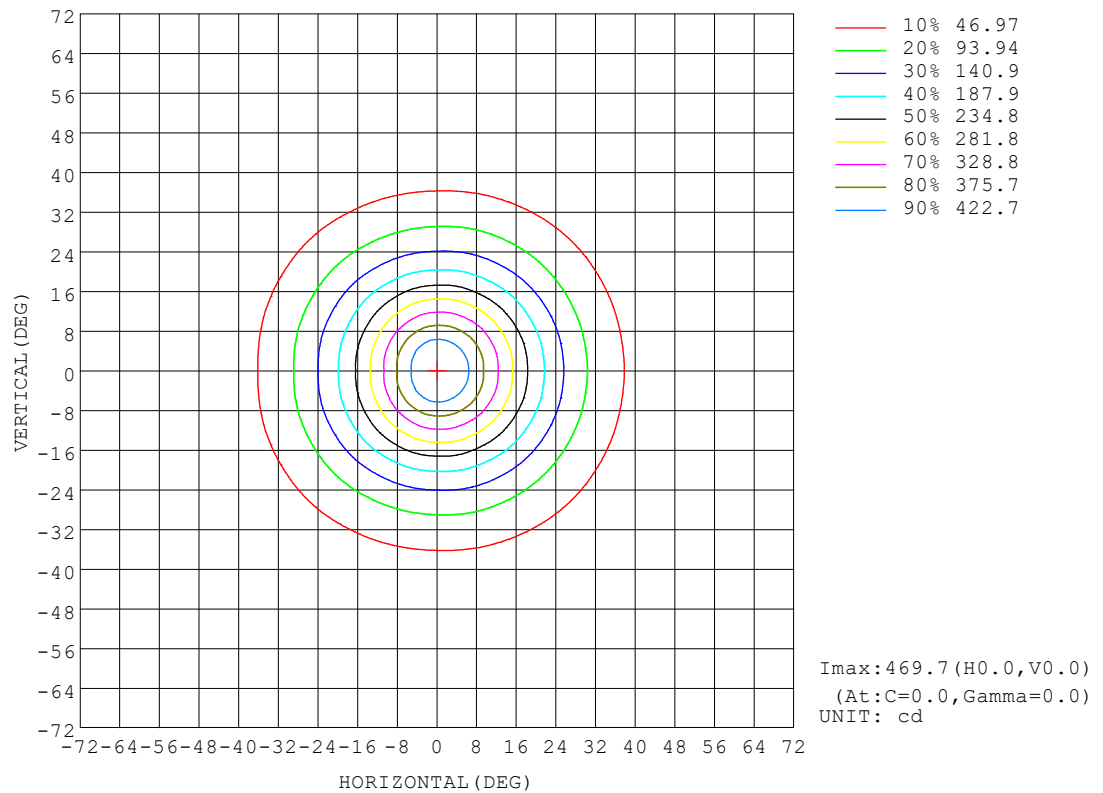
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	84	78	73	84	77	73	83	77	73	69
0.80	92	86	82	92	86	82	90	85	81	77
1.00	97	91	87	96	91	87	95	91	86	82
1.25	102	96	92	100	95	92	98	94	91	87
1.50	104	99	96	103	99	95	101	97	94	89
2.00	108	103	100	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	105	102	99	93
3.00	111	107	105	109	106	103	106	103	101	95
4.00	113	110	108	111	109	106	108	105	104	97
5.00	115	112	110	112	110	108	108	107	105	98
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:Elaine
 Test Date:10 November 2023

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:3.100m [K=1.0000]
 Remarks: AGL-180-27N40
 3W / 2700K
 24V DC

ISOCANDELA DIAGRAM

Test:U:23.918V I:0.0905A P:2.1658W PF:1.0000 Freq:0Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:239.272x1 lm		
NAME: AGL-180-27N40	TYPE: MR11 LAMP	WEIGHT:
SPEC.: AGL-180-27N40	DIM.:	SERIAL No.: -
MFR.: AQUALUX	SUR.:	Shielding Angle:

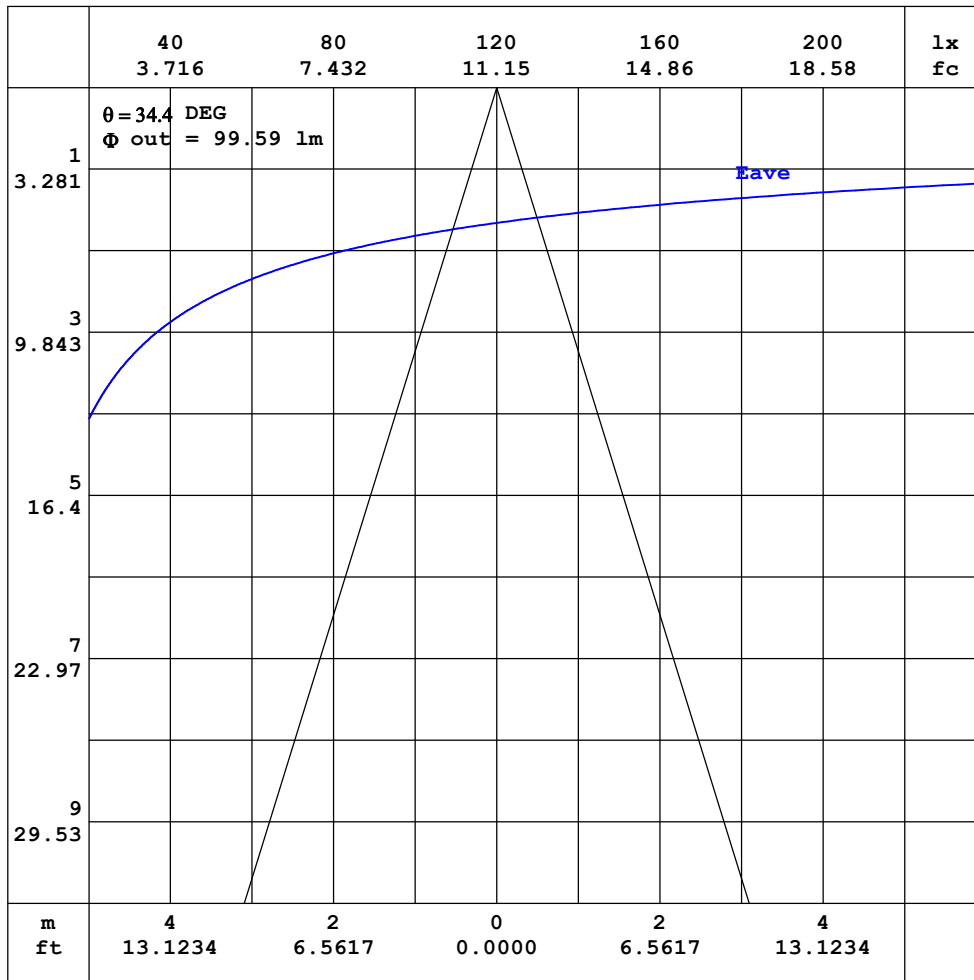


C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 20°C
 Operators: Elaine
 Test Date: 10 November 2023

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity: 65.0%
 Test Distance: 3.100m [K=1.0000]
 Remarks: AGL-180-27N40
 3W / 2700K
 24V DC

AAI CURVES

Test:U:23.918V I:0.0905A P:2.1658W PF:1.0000 Freq:0Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:239.272x1 lm		
NAME: AGL-180-27N40	TYPE: MR11 LAMP	WEIGHT:
SPEC.: AGL-180-27N40	DIM.:	SERIAL No.: -
MFR.: AQUALUX	SUR.:	Shielding Angle:



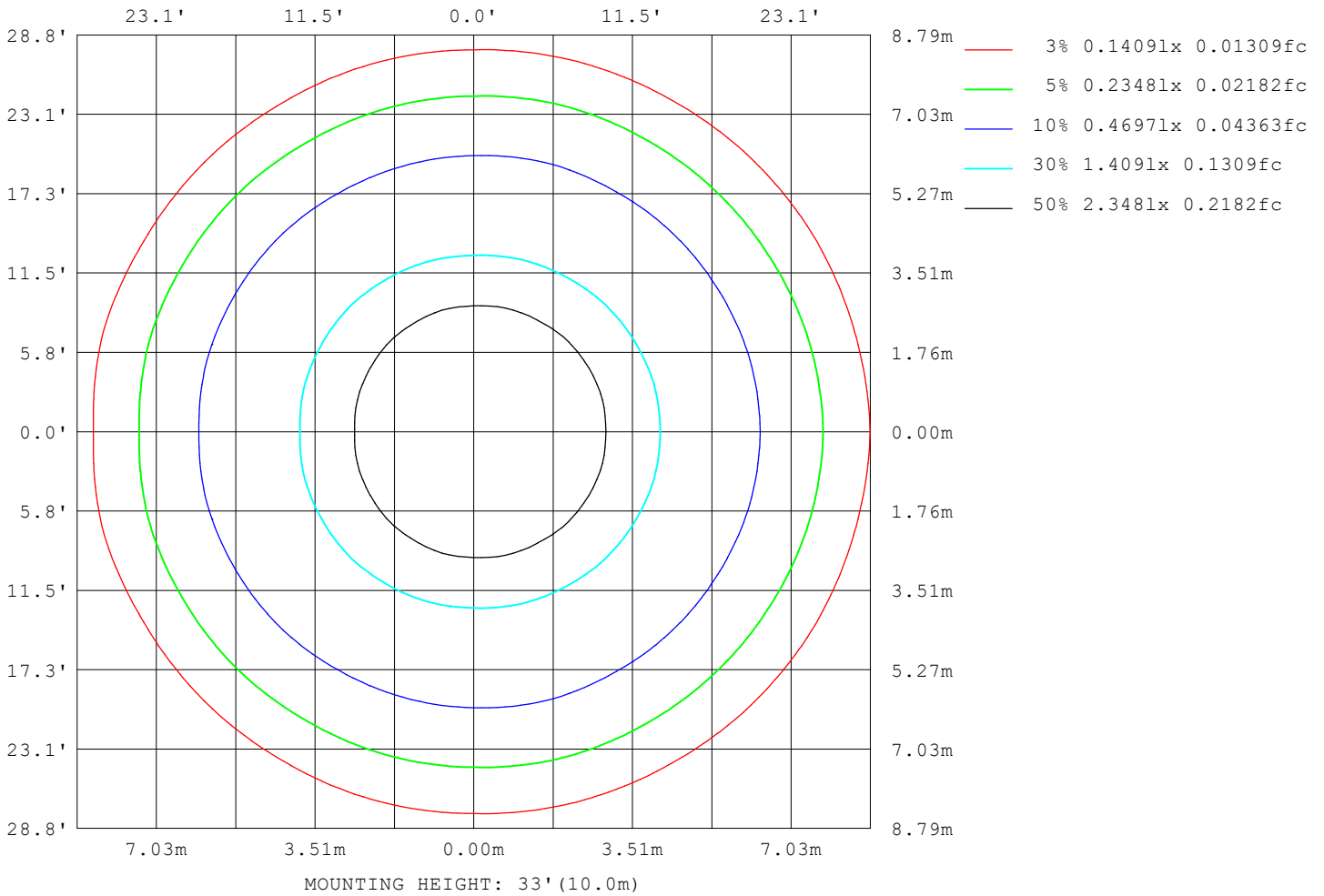
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 20°C
 Operators: Elaine
 Test Date: 10 November 2023

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity: 65.0%
 Test Distance: 3.100m [K=1.0000]
 Remarks: AGL-180-27N40
 3W / 2700K
 24V DC

ISOLUX DIAGRAM

Test:U:23.918V I:0.0905A P:2.1658W PF:1.0000 Freq:0Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:239.272x1 lm		
NAME: AGL-180-27N40	TYPE: MR11 LAMP	WEIGHT:
SPEC.: AGL-180-27N40	DIM.:	SERIAL No.: -
MFR.: AQUALUX	SUR.:	Shielding Angle:



C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:20°C
 Operators:Elaine
 Test Date:10 November 2023

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:3.100m [K=1.0000]
 Remarks: AGL-180-27N40
 3W / 2700K
 24V DC

LED Avg.L Report

Test:U:23.918V I:0.0905A P:2.1658W PF:1.0000 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:239.272x1 lm		
NAME: AGL-180-27N40	TYPE: MR11 LAMP	WEIGHT:
SPEC.: AGL-180-27N40	DIM.:	SERIAL No.: -
MFR.: AQUALUX	SUR.:	Shielding Angle:

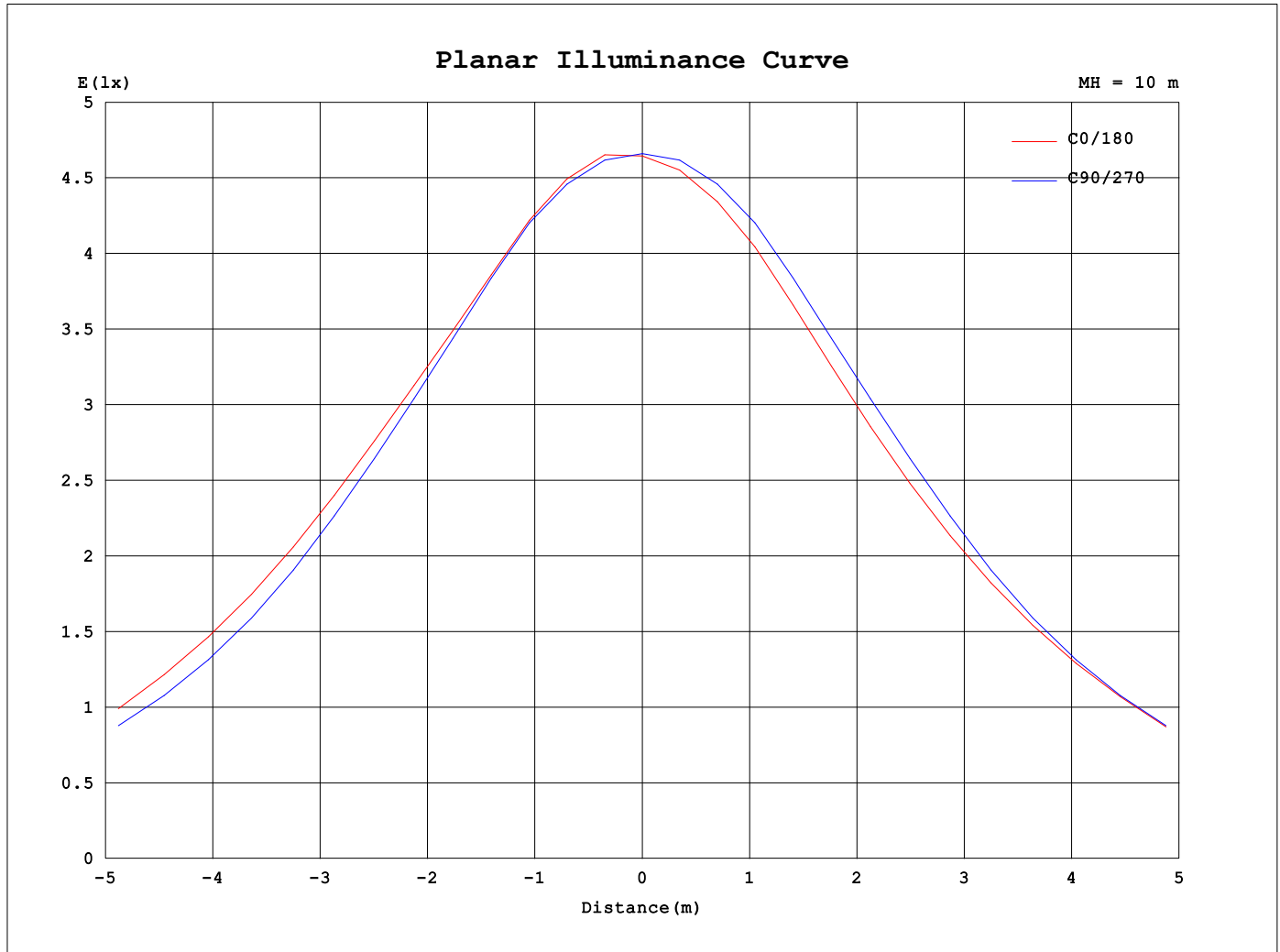
AvgL	cd/m2
L_0~180 (65) av	6078
L_0~180 (75) av	3593
L_0~180 (85) av	1951
L_90~270 (65) av	5751
L_90~270 (75) av	3449
L_90~270 (85) av	1955
L_45 (65) av	5142
L_45 (75) av	3028
L_45 (85) av	1854

Standard: GB/T 29293-2012

C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:20°C
 Operators:Elaine
 Test Date:10 November 2023

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:3.100m [K=1.0000]
 Remarks: AGL-180-27N40
 3W / 2700K
 24V DC

Planar Illuminance Curve



C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 20°C
 Operators: Elaine
 Test Date: 10 November 2023

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity: 65.0%
 Test Distance: 3.100m [K=1.0000]
 Remarks: AGL-180-27N40
 3W / 2700K
 24V DC

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.918V I:0.0905A P:2.1658W PF:1.0000 Freq:0Hz		
UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:239.272x1 lm		
NAME: AGL-180-27N40	TYPE: MR11 LAMP	WEIGHT:
SPEC.: AGL-180-27N40	DIM.:	SERIAL No.: -
MFR.: AQUALUX	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	470	469	468	467	467	467	466	466	466	465	465	465	465	465	465	466	466	466	466
5	453	452	452	451	450	450	449	449	447	445	442	440	438	440	442	445	447	449	449
10	366	369	369	368	365	363	360	359	355	353	348	346	341	346	348	353	355	359	360
15	302	304	302	301	296	294	290	288	284	282	277	275	271	275	277	282	284	288	290
20	211	210	207	204	199	196	192	192	190	191	189	188	186	188	189	191	190	192	192
25	160	159	155	152	148	145	142	141	141	143	142	143	140	143	142	143	141	141	142
30	97.1	95.9	93.4	91.5	89.3	88.8	86.1	85.0	84.4	85.3	85.3	86.2	84.7	86.2	85.3	85.3	84.4	85.0	86.1
35	67.0	66.0	63.8	62.2	60.8	60.4	58.8	57.9	57.4	58.2	58.5	59.2	58.0	59.2	58.5	58.2	57.4	57.9	58.8
40	38.2	37.3	36.3	35.0	33.7	33.1	32.3	32.2	31.8	31.9	32.0	32.9	31.7	32.9	32.0	31.9	31.8	32.2	32.3
45	24.3	23.9	22.5	22.3	22.1	22.2	21.5	21.0	20.5	20.5	20.7	22.1	21.1	22.1	20.7	20.5	20.5	21.0	21.5
50	13.3	12.3	12.2	12.0	12.2	12.1	12.0	11.5	11.1	11.0	11.2	12.3	11.8	12.3	11.2	11.0	11.1	11.5	12.0
55	9.04	8.18	7.96	8.02	8.15	8.23	8.01	7.82	7.47	7.39	7.50	8.49	7.93	8.49	7.50	7.39	7.47	7.82	8.01
60	5.17	4.50	4.36	4.44	4.60	4.79	4.68	4.50	4.26	4.18	4.26	5.06	4.69	5.06	4.26	4.18	4.26	4.50	4.68
65	3.57	3.06	2.95	3.05	3.23	3.42	3.33	3.18	2.99	2.92	3.07	3.73	3.46	3.73	3.07	2.92	2.99	3.18	3.33
70	1.97	1.70	1.64	1.71	1.87	1.99	1.95	1.86	1.75	1.72	1.84	2.28	2.11	2.28	1.84	1.72	1.75	1.86	1.95
75	1.24	1.10	1.07	1.11	1.17	1.28	1.27	1.21	1.12	1.11	1.17	1.46	1.40	1.46	1.17	1.11	1.12	1.21	1.27
80	0.50	0.48	0.48	0.49	0.49	0.51	0.51	0.51	0.51	0.51	0.52	0.58	0.63	0.58	0.52	0.51	0.51	0.51	0.51
85	0.25	0.24	0.24	0.25	0.25	0.26	0.27	0.27	0.26	0.26	0.26	0.28	0.29	0.28	0.26	0.26	0.26	0.27	0.27
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 180DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:20°C
 Operators:Elaine
 Test Date:10 November 2023

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:3.100m [K=1.0000]
 Remarks: AGL-180-27N40
 3W / 2700K
 24V DC

