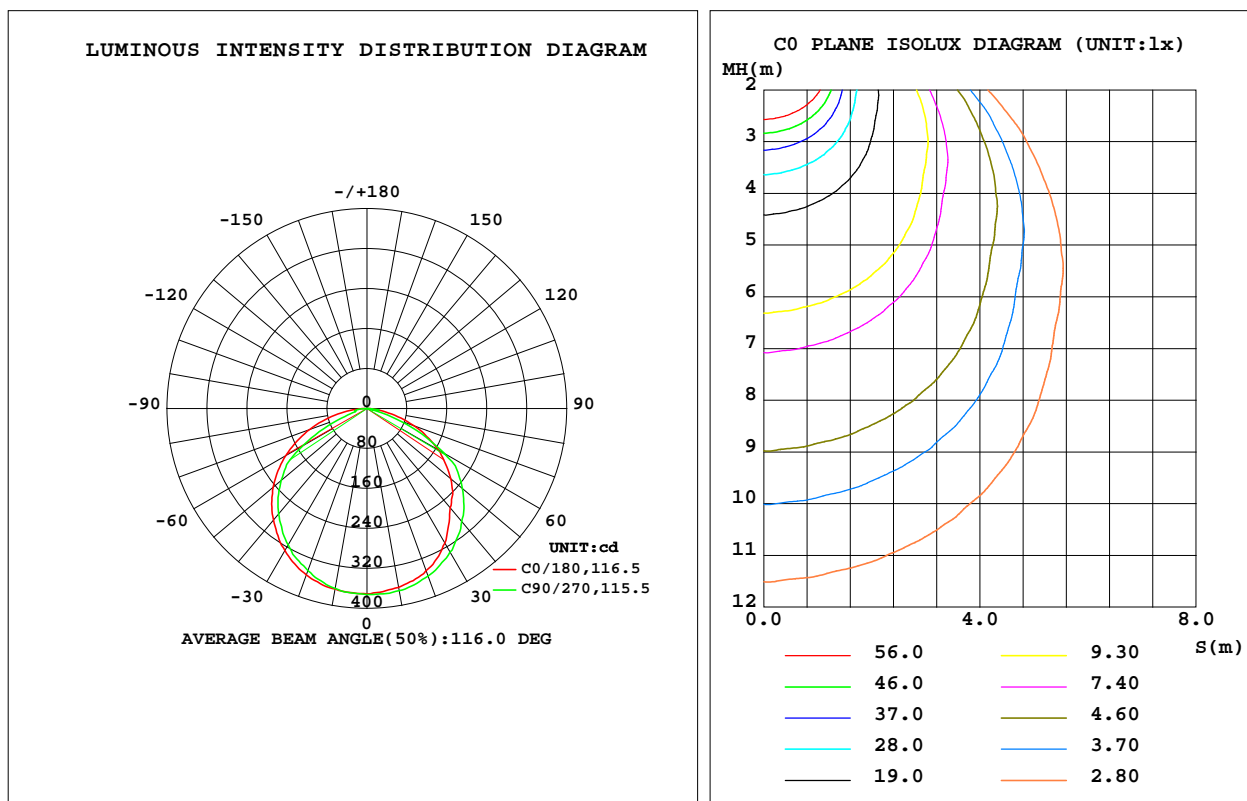


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:158.8V I:0.0550A P:8.730W PF:1.0000 Freq:0Hz Lamp Flux:1099.33x1 lm		
SGSO SKU: 0028920141	TYPE: /	WEIGHT: /
SPEC.:0.6m T5 Cabinet,10W,1050lm,105lm/W,3CCT Switch,3000/3500/4000K,Linkable	DIM.: /	SERIAL No.:N21LEDGW110903-04
MFR.: /	SUR.: /	Shielding Angle: /

DATA OF LAMP		PHOTOMETRIC DATA Eff: 125.93 lm/W			
MODEL	TP-T5C02-10-3000K	Imax(cd)	374.3	S/MH(C0/180)	1.32
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	DC159	TOTAL FLUX(lm)	1099.3	h UP,DN(C0-180)	0.0,51.5
NOMINAL FLUX(lm)	1099.33	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,48.5
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)		h down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:GHH
Test Date:2021-12-27

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
Humidity:46%
Test Distance:26.000m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	363.5	366.7	370.0	369.2	366.9	366.0	365.8	363.7	0- 10	35.25	35.25	3.21,3.21
20	345.7	352.9	357.3	356.8	354.6	348.2	345.3	344.0	10- 20	101.7	137.0	12.5,12.5
30	311.2	325.3	332.3	332.8	328.3	320.6	315.5	313.8	20- 30	155.9	292.9	26.6,26.6
40	259.8	288.1	295.7	297.0	291.4	281.7	275.4	273.1	30- 40	190.3	483.2	44,44
50	219.1	235.2	249.1	251.0	244.9	232.6	223.9	222.0	40- 50	200.9	684.1	62.2,62.2
60	165.4	173.7	177.5	194.1	187.3	173.7	147.0	160.2	50- 60	184.5	868.6	79,79
70	98.10	112.2	64.54	130.3	121.1	106.7	47.28	88.48	60- 70	137.7	1006	91.5,91.5
80	33.12	45.70	18.52	61.02	53.10	40.43	24.35	26.82	70- 80	73.25	1080	98.2,98.2
90	1.140	3.019	0.3768	8.268	4.391	2.048	0.2931	1.127	80- 90	19.81	1099	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): 583.87 lm

%lum = 53.1%

%lamp = 53.1%

Conical surface Flux(120deg): 868.59 lm

%lum = 79.0%

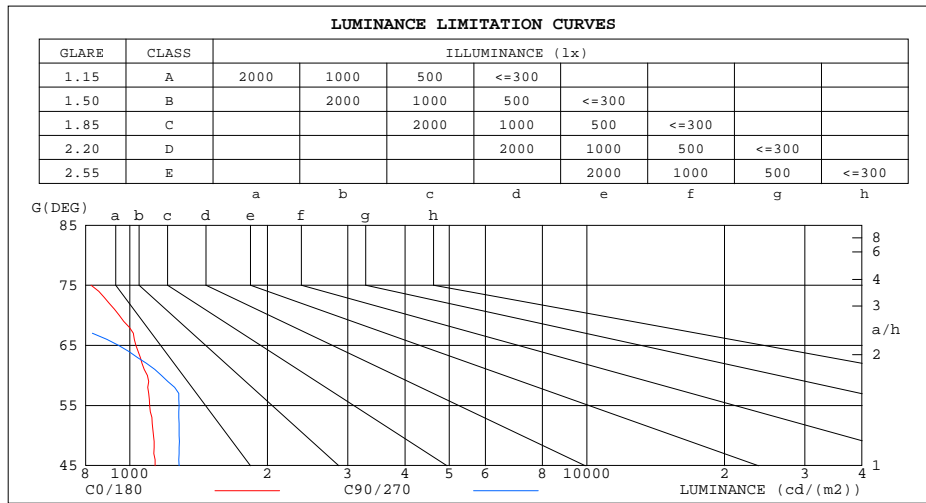
%lamp = 79.0%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:GHH
Test Date:2021-12-27

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
Humidity:46%
Test Distance:26.000m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:158.8V I:0.0550A P:8.730W PF:1.0000 Freq:0Hz Lamp Flux:1099.33x1 lm		
SGSO SKU: 0028920141	TYPE: /	WEIGHT: /
SPEC.:0.6m T5 Cabinet,10W,1050lm,105lm/W,3CCT Switch,3000/3500/4000K,Linkable	DIM.: /	SERIAL No.:N21LEDGW110903-04
MFR.: /	SUR.: /	Shielding Angle: /



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	369	330
80	630	352
75	823	146
70	948	624
65	1032	946
60	1093	1174
55	1106	1282
50	1127	1281
45	1135	1282

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:GHH
 Test Date:2021-12-27

g Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
 Humidity:46%
 Test Distance:26.000m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:158.8V I:0.0550A P:8.730W PF:1.0000 Freq:0Hz Lamp Flux:1099.33x1 lm		
SGSO SKU: 0028920141	TYPE: /	WEIGHT: /
SPEC.:0.6m T5 Cabinet,10W,1050lm,105lm/W,3CCT Switch,3000/3500/4000K,Linkable	DIM.: /	SERIAL No.:N21LEDGW110903-04
MFR.: /	SUR.: /	Shielding Angle: /

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)															
0.0																
1.0	.309	.176	.056	.302	.172	.055	.289	.166	.053	.276	.159	.051	.265	.154	.050	
2.0	.292	.160	.049	.285	.157	.048	.274	.152	.047	.263	.147	.046	.253	.143	.045	
3.0	.270	.144	.043	.265	.142	.043	.255	.138	.042	.245	.134	.041	.236	.131	.040	
4.0	.250	.130	.038	.245	.128	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.231	.118	.034	.227	.116	.034	.219	.114	.034	.211	.111	.033	.204	.109	.033	
6.0	.214	.107	.031	.211	.106	.031	.203	.104	.030	.197	.102	.030	.190	.100	.030	
7.0	.200	.099	.028	.196	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027	
8.0	.186	.091	.026	.183	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.082	.023	.162	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.148	.075	.021	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	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	.180	.156	.134	.154	.134	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.172	.132	.098	.148	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.165	.114	.074	.141	.099	.064	.097	.069	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.010	.006	
6.0	.143	.082	.039	.122	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:GHH
Test Date:2021-12-27

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
Humidity:46%
Test Distance:26.000m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:158.8V I:0.0550A P:8.730W PF:1.0000 Freq:0Hz Lamp Flux:1099.33x1 lm										
SGSO SKU: 0028920141					TYPE: /			WEIGHT: /		
SPEC.:0.6m T5 Cabinet,10W,1050lm,105lm/W,3CCT Switch,3000/3500/4000K,Linkable					DIM.: /			SERIAL No.:N21LEDGW110903-04		
MFR.: /					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	13.3	14.8	13.6	15.0	15.2	13.9	15.4	14.1	15.6	15.8
3H	14.8	16.2	15.1	16.4	16.7	15.0	16.4	15.3	16.7	16.9
4H	15.3	16.6	15.6	16.9	17.1	15.2	16.5	15.5	16.8	17.0
6H	15.6	16.8	15.9	17.1	17.4	15.2	16.5	15.6	16.8	17.1
8H	15.6	16.8	16.0	17.1	17.4	15.3	16.6	15.7	16.8	17.1
12H	15.6	16.8	16.0	17.1	17.4	15.4	16.6	15.7	16.9	17.2
4H 2H	14.0	15.4	14.3	15.6	15.9	14.4	15.8	14.8	16.0	16.3
3H	15.6	16.8	16.0	17.1	17.4	15.9	17.1	16.3	17.4	17.7
4H	16.3	17.3	16.7	17.7	18.0	16.4	17.5	16.8	17.8	18.1
6H	16.7	17.6	17.1	18.0	18.3	16.6	17.6	17.0	18.0	18.3
8H	16.8	17.6	17.2	18.0	18.4	16.8	17.7	17.2	18.1	18.4
12H	16.8	17.6	17.2	18.0	18.4	16.9	17.7	17.3	18.1	18.5
8H 4H	16.6	17.5	17.0	17.8	18.2	16.7	17.6	17.1	17.9	18.3
6H	17.1	17.9	17.6	18.3	18.7	17.2	17.9	17.6	18.3	18.8
8H	17.3	17.9	17.7	18.4	18.8	17.5	18.1	17.9	18.5	19.0
12H	17.4	17.9	17.8	18.4	18.8	17.7	18.2	18.1	18.7	19.1
12H 4H	16.6	17.4	17.0	17.8	18.2	16.7	17.5	17.1	17.9	18.3
6H	17.2	17.8	17.7	18.3	18.7	17.2	17.9	17.7	18.3	18.8
8H	17.4	17.9	17.9	18.4	18.9	17.6	18.1	18.1	18.6	19.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.3 / - 0.5				
2.0H	+ 0.2 / - 0.4					+ 0.3 / - 0.6				

CIE Pub.117, 1099 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 0.3$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:GHH
Test Date:2021-12-27

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
Humidity:46%
Test Distance:26.000m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:158.8V I:0.0550A P:8.730W PF:1.0000 Freq:0Hz Lamp Flux:1099.33x1 lm		
SGSO SKU: 0028920141	TYPE: /	WEIGHT: /
SPEC.:0.6m T5 Cabinet,10W,1050lm,105lm/W,3CCT Switch,3000/3500/4000K,Linkable	DIM.: /	SERIAL No.:N21LEDGW110903-04
MFR.: /	SUR.: /	Shielding Angle: /

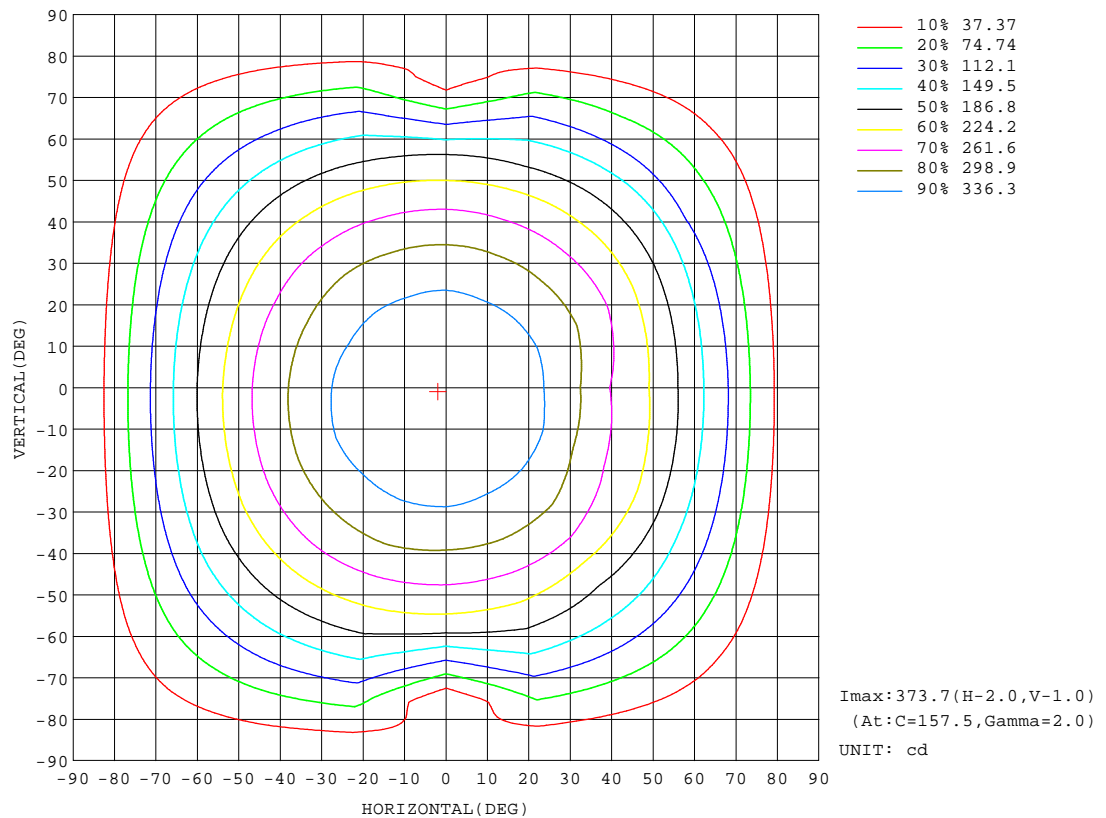
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	76	65	57	75	64	57	72	65	56	49
1.25	83	72	65	81	72	65	79	70	64	57
1.50	88	78	71	86	77	70	83	75	69	62
2.00	95	86	80	93	85	79	90	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	100	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:GHH
Test Date:2021-12-27

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
Humidity:46%
Test Distance:26.000m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:158.8V I:0.0550A P:8.730W PF:1.0000 Freq:0Hz Lamp Flux:1099.33x1 lm		
SGSO SKU: 0028920141	TYPE: /	WEIGHT: /
SPEC.:0.6m T5 Cabinet,10W,1050lm,105lm/W,3CCT Switch,3000/3500/4000K,Linkable	DIM.: /	SERIAL No.:N21LEDGW110903-04
MFR.: /	SUR.: /	Shielding Angle: /



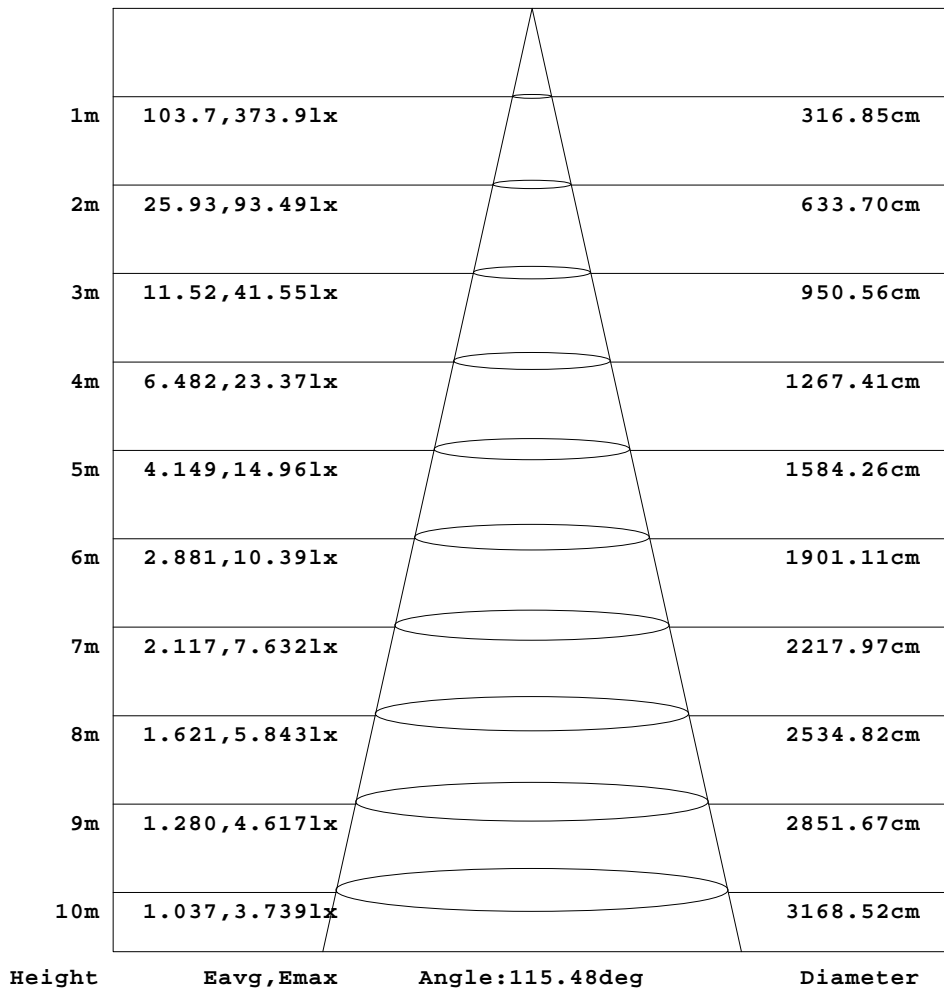
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.2DEG
Operators: GHH
Test Date: 2021-12-27

deg Range: 0 - 90DEG
Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
Humidity: 46%
Test Distance: 26.000m [K=1.0000]
Remarks:

AAI Figure

Test:U:158.8V I:0.0550A P:8.730W PF:1.0000 Freq:0Hz Lamp Flux:1099.33x1 lm		
SGSO SKU: 0028920141	TYPE: /	WEIGHT: /
SPEC.:0.6m T5 Cabinet,10W,1050lm,105lm/W,3CCT Switch,3000/3500/4000K,Linkable	DIM.: /	SERIAL No.:N21LEDGW110903-04
MFR.: /	SUR.: /	Shielding Angle: /

Flux out:834.5 lm



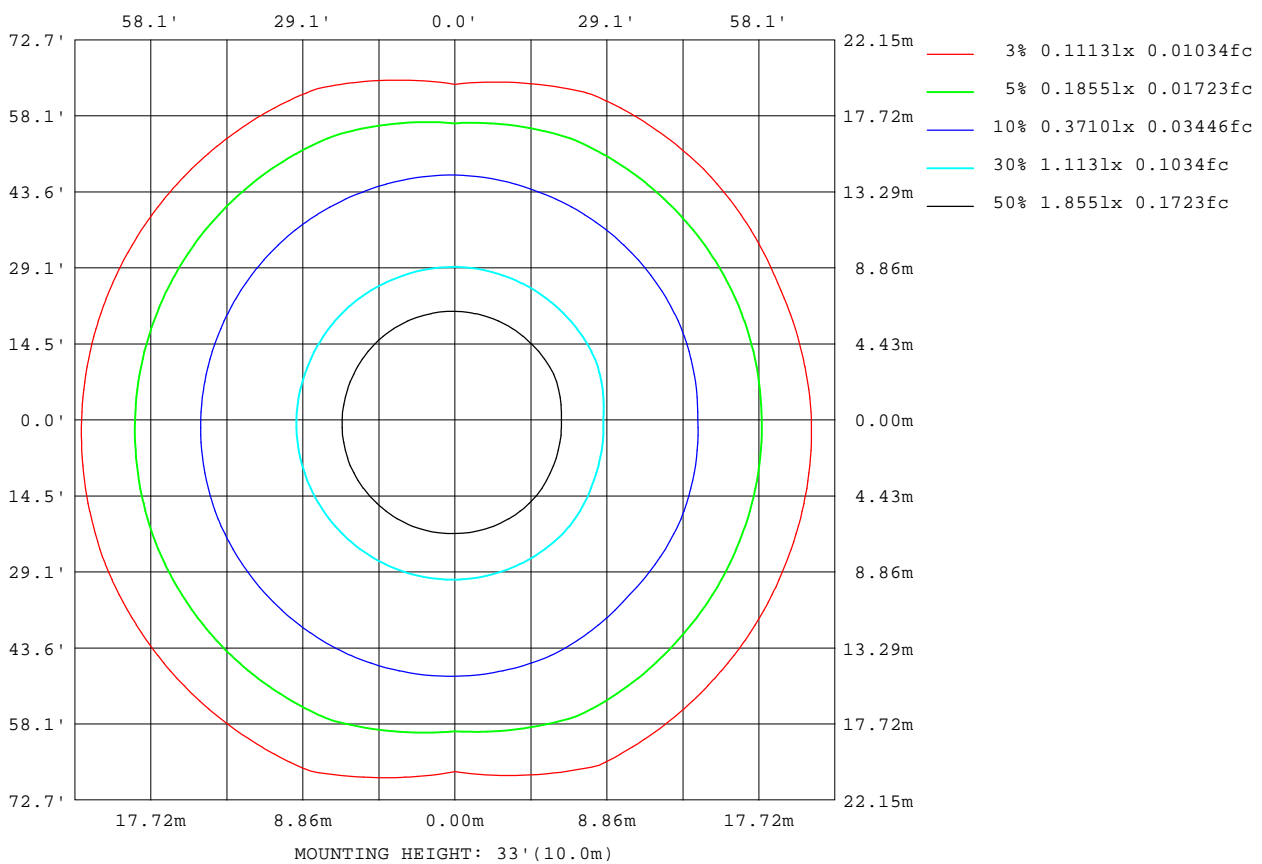
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:GHH
Test Date:2021-12-27

g Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
Humidity:46%
Test Distance:26.000m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:158.8V I:0.0550A P:8.730W PF:1.0000 Freq:0Hz Lamp Flux:1099.33x1 lm		
SGSO SKU: 0028920141	TYPE: /	WEIGHT: /
SPEC.:0.6m T5 Cabinet,10W,1050lm,105lm/W,3CCT Switch,3000/3500/4000K,Linkable	DIM.: /	SERIAL No.:N21LEDGW110903-04
MFR.: /	SUR.: /	Shielding Angle: /



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:GHH
Test Date:2021-12-27

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
Humidity:46%
Test Distance:26.000m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:158.8V I:0.0550A P:8.730W PF:1.0000 Freq:0Hz Lamp Flux:1099.33x1 lm		
SGSO SKU: 0028920141	TYPE: /	WEIGHT: /
SPEC.:0.6m T5 Cabinet,10W,1050lm,105lm/W,3CCT Switch,3000/3500/4000K,Linkable	DIM.: /	SERIAL No.:N21LEDGW110903-04
MFR.: /	SUR.: /	Shielding Angle: /

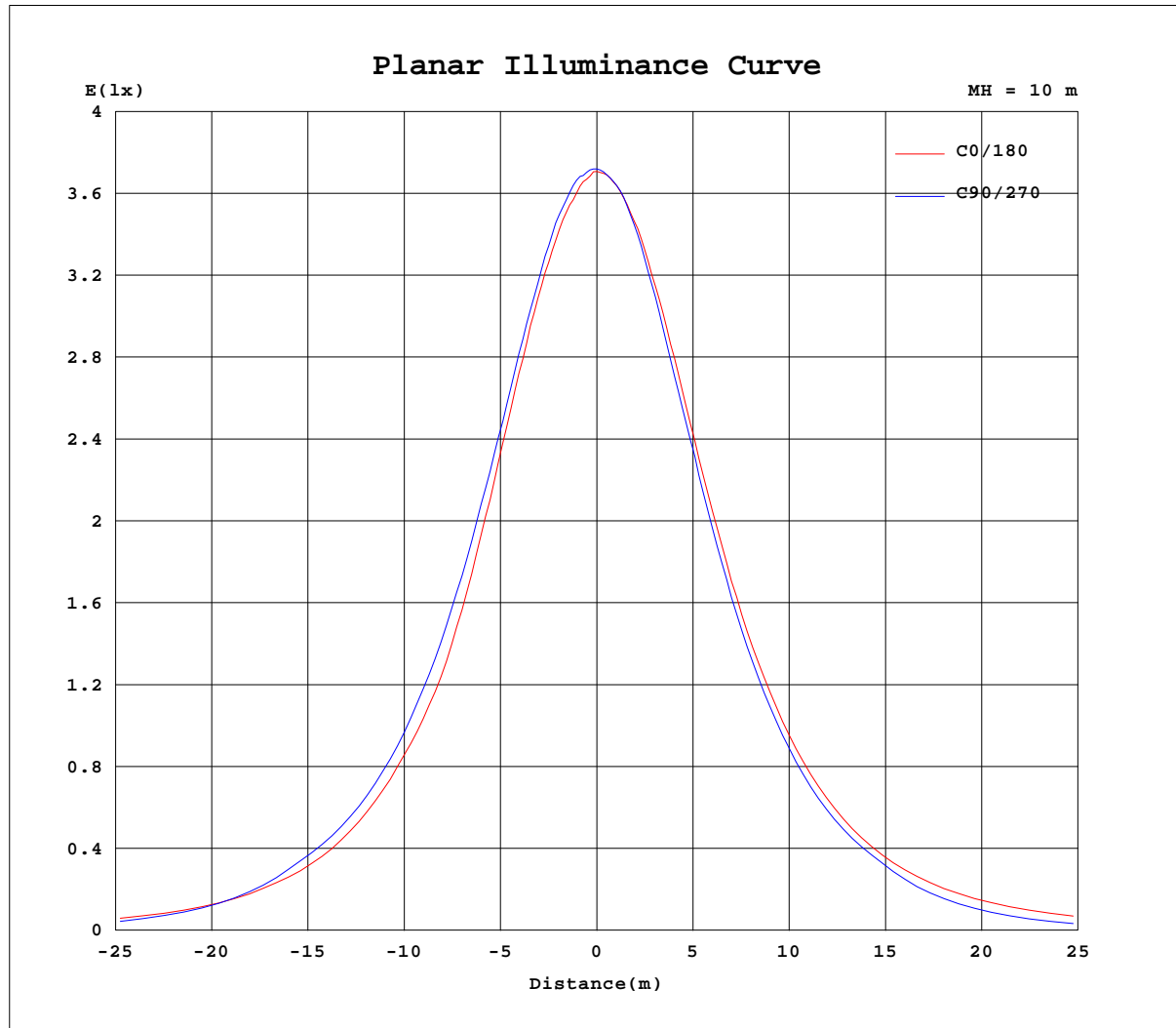
AvgL	cd/m2
L_0~180(65)av	1121
L_0~180(75)av	966
L_0~180(85)av	631
L_90~270(65)av	847
L_90~270(75)av	222
L_90~270(85)av	314
L_45(65)av	1127
L_45(75)av	962
L_45(85)av	659

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:GHH
Test Date:2021-12-27

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
Humidity:46%
Test Distance:26.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators: GHH
 Test Date: 2021-12-27

Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
 Humidity: 46%
 Test Distance: 26.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:158.8V I:0.0550A P:8.730W PF:1.0000 Freq:0Hz Lamp Flux:1099.33x1 lm		
SGSO SKU: 0028920141	TYPE: /	WEIGHT: /
SPEC.:0.6m T5 Cabinet,10W,1050lm,1051m/W,3CCT Switch,3000/3500/4000K,Linkable	DIM.: /	SERIAL No.:N21LEDGW110903-04
MFR.: /	SUR.: /	Shielding Angle: /

Table--1

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.2DEG
Operators: GHH
Test Date: 2021-12-27

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Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.6
Humidity:46%
Test Distance:26.000m [K=1.0000]
Remarks:

```