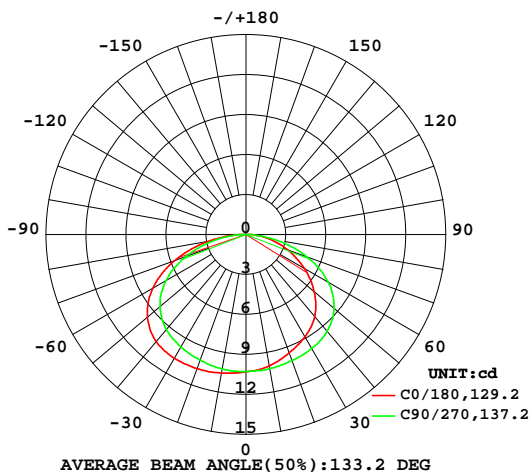


## LUMINAIRE PHOTOMETRIC TEST REPORT

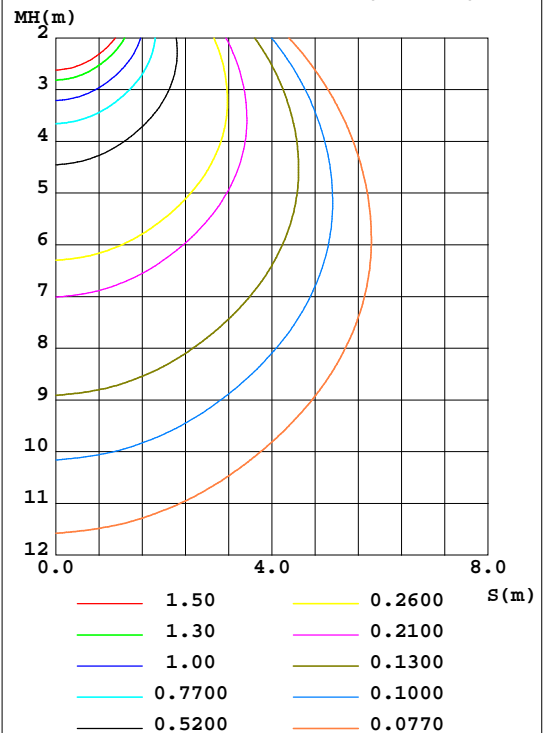
Test:U:24.00V I:0.1030A P:2.472W PF:1.000 Freq:0Hz Lamp Flux:38.6636x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-B	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 15.64 lm/W			
MODEL	DA1202405NO	I <sub>max</sub> (cd)	10.74	S/MH(C0/180)	1.57
NOMINAL POWER(W)	2.5	LOR(%)	100.0	S/MH(C90/270)	1.43
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	38.664	h UP,DN(C0-180)	0.0,46.1
NOMINAL FLUX(lm)	38.6636	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,53.8
LAMPS INSIDE	1	h up(%)	0.1	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	h down(%)	99.9	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2018-12-21

g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

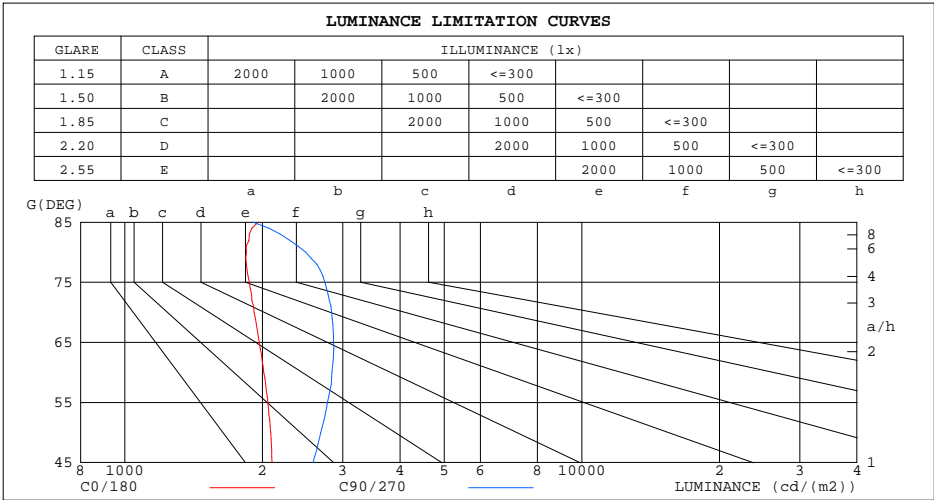
g	C0	C90	C180	C270					g	F zone	F total	%lum,lamp
10	10.02	10.22	10.55	10.25					0~ 10	0.9819	0.9819	2.54,2.54
20	9.464	10.07	10.72	10.05					10~ 20	2.883	3.865	10,10
30	8.869	9.883	10.73	9.758					20~ 30	4.602	8.467	21.9,21.9
40	8.035	9.479	10.48	9.308					30~ 40	6.023	14.49	37.5,37.5
50	6.701	8.626	9.651	8.430					40~ 50	6.870	21.36	55.2,55.2
60	5.036	7.100	8.072	6.938					50~ 60	6.826	28.19	72.9,72.9
70	3.283	4.844	5.686	4.764					60~ 70	5.700	33.89	87.6,87.6
80	1.603	2.160	2.713	2.202					70~ 80	3.604	37.49	97,97
90	0.2792	0	0.2234	0.1992					80~ 90	1.149	38.64	99.9,99.9
100	0	0	0	0					90~100	0.0243	38.66	100,100
110	0	0	0	0					100~110	0	38.66	100,100
120	0	0	0	0					110~120	0	38.66	100,100
130	0	0	0	0					120~130	0	38.66	100,100
140	0	0	0	0					130~140	0	38.66	100,100
150	0	0	0	0					140~150	0	38.66	100,100
160	0	0	0	0					150~160	0	38.66	100,100
170	0	0	0	0					160~170	0	38.66	100,100
180	0	0	0	0					170~180	0	38.66	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2018-12-21

g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.1030A P:2.472W PF:1.000 Freq:0Hz Lamp Flux:38.6636x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-B	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:



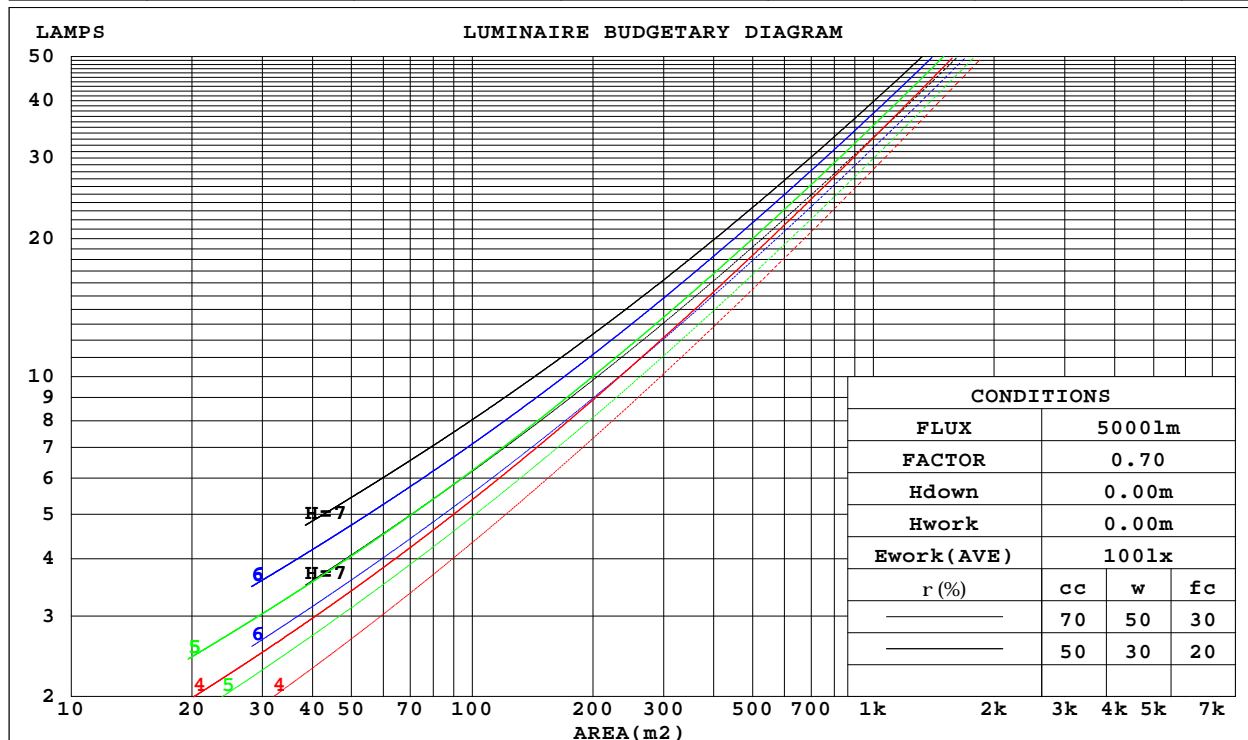
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2018-12-21

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.1030A P:2.472W PF:1.000 Freq:0Hz Lamp Flux:38.6636x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-B	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	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
r <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2018-12-21

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:24.00V I:0.1030A P:2.472W PF:1.000 Freq:0Hz Lamp Flux:38.6636x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-B	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	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	.343	.195	.062	.336	.192	.061	.323	.185	.059	.310	.179	.057	.299	.173	.056															
2.0	.318	.174	.053	.312	.172	.053	.300	.167	.052	.289	.162	.051	.278	.157	.050															
3.0	.291	.155	.046	.285	.153	.046	.275	.149	.045	.265	.145	.045	.256	.142	.044															
4.0	.266	.138	.041	.261	.137	.040	.252	.134	.040	.243	.130	.039	.235	.128	.039															
5.0	.244	.125	.036	.240	.123	.036	.232	.121	.035	.224	.118	.035	.216	.116	.035															
6.0	.225	.113	.032	.221	.112	.032	.214	.110	.032	.207	.108	.032	.200	.105	.031															
7.0	.209	.103	.029	.205	.102	.029	.198	.100	.029	.192	.099	.029	.186	.097	.028															
8.0	.194	.095	.027	.191	.094	.027	.185	.092	.026	.179	.091	.026	.174	.089	.026															
9.0	.181	.088	.024	.178	.087	.024	.173	.086	.024	.168	.084	.024	.163	.083	.024															
10.0	.170	.081	.023	.167	.081	.023	.162	.080	.022	.158	.078	.022	.154	.077	.022															

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	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.183	.156	.132	.157	.134	.114	.107	.092	.079	.062	.053	.046	.020	.017	.015	
2.0	.176	.132	.095	.151	.114	.082	.103	.079	.057	.060	.046	.034	.019	.015	.011	
3.0	.169	.115	.072	.145	.099	.062	.099	.069	.044	.057	.040	.026	.018	.013	.008	
4.0	.162	.102	.056	.139	.088	.049	.095	.061	.034	.055	.036	.020	.018	.012	.007	
5.0	.154	.092	.046	.132	.079	.040	.091	.055	.028	.053	.033	.017	.017	.011	.005	
6.0	.147	.083	.038	.126	.072	.033	.087	.051	.023	.050	.030	.014	.016	.010	.005	
7.0	.140	.077	.032	.120	.066	.028	.083	.047	.020	.048	.027	.012	.016	.009	.004	
8.0	.133	.071	.028	.114	.061	.025	.079	.043	.017	.046	.025	.010	.015	.008	.003	
9.0	.127	.066	.025	.109	.057	.022	.076	.040	.015	.044	.024	.009	.014	.008	.003	
10.0	.121	.062	.022	.104	.053	.019	.072	.038	.014	.042	.022	.008	.014	.007	.003	

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2018-12-21

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:24.00V I:0.1030A P:2.472W PF:1.000 Freq:0Hz Lamp Flux:38.6636x1 lm											
NAME: DA1202405NO					TYPE:			WEIGHT:			
SPEC.:DA1202405NO-0RGBNDA012WC0500-B					DIM.: 1000*5*1.5MM			SERIAL No.:01			
MFR.: Colors					SUR.:1000*5MM			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	26.5	28.2	26.8	28.4	28.6	27.8	29.4	28.1	29.6	29.8	
	28.1	29.6	28.4	29.9	30.1	29.7	31.2	30.0	31.5	31.7	
	28.8	30.2	29.1	30.5	30.8	30.5	31.9	30.8	32.2	32.5	
	29.3	30.7	29.7	31.0	31.3	31.1	32.5	31.4	32.7	33.0	
	29.5	30.8	29.9	31.1	31.4	31.3	32.6	31.6	32.9	33.2	
	29.7	31.0	30.1	31.3	31.6	31.4	32.6	31.7	32.9	33.2	
4H	2H	27.4	28.8	27.7	29.1	29.4	28.3	29.8	28.7	30.0	30.3
	3H	29.2	30.5	29.6	30.8	31.1	30.5	31.7	30.8	32.0	32.3
	4H	30.0	31.1	30.4	31.5	31.8	31.4	32.5	31.8	32.9	33.2
	6H	30.6	31.7	31.0	32.0	32.4	32.1	33.2	32.5	33.5	33.9
	8H	30.9	31.9	31.3	32.2	32.6	32.4	33.3	32.8	33.7	34.1
	12H	31.1	32.0	31.5	32.4	32.8	32.5	33.4	32.9	33.8	34.2
8H	4H	30.4	31.4	30.8	31.8	32.2	31.6	32.6	32.1	33.0	33.4
	6H	31.3	32.1	31.7	32.5	32.9	32.5	33.3	33.0	33.7	34.2
	8H	31.6	32.3	32.1	32.8	33.2	32.9	33.6	33.3	34.0	34.5
	12H	31.9	32.5	32.4	33.0	33.5	33.1	33.7	33.6	34.2	34.6
12H	4H	30.5	31.4	30.9	31.7	32.2	31.6	32.5	32.1	32.9	33.3
	6H	31.4	32.1	31.8	32.5	33.0	32.6	33.3	33.1	33.7	34.2
	8H	31.8	32.4	32.3	32.8	33.3	33.0	33.6	33.4	34.0	34.5
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.4					+ 0.1 / - 0.2					
2.0H	+ 0.2 / - 0.5					+ 0.2 / - 0.3					

CIE Pub.117, 38.66 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -11.3)

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2018-12-21

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.1030A P:2.472W PF:1.000 Freq:0Hz Lamp Flux:38.6636x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-B	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:

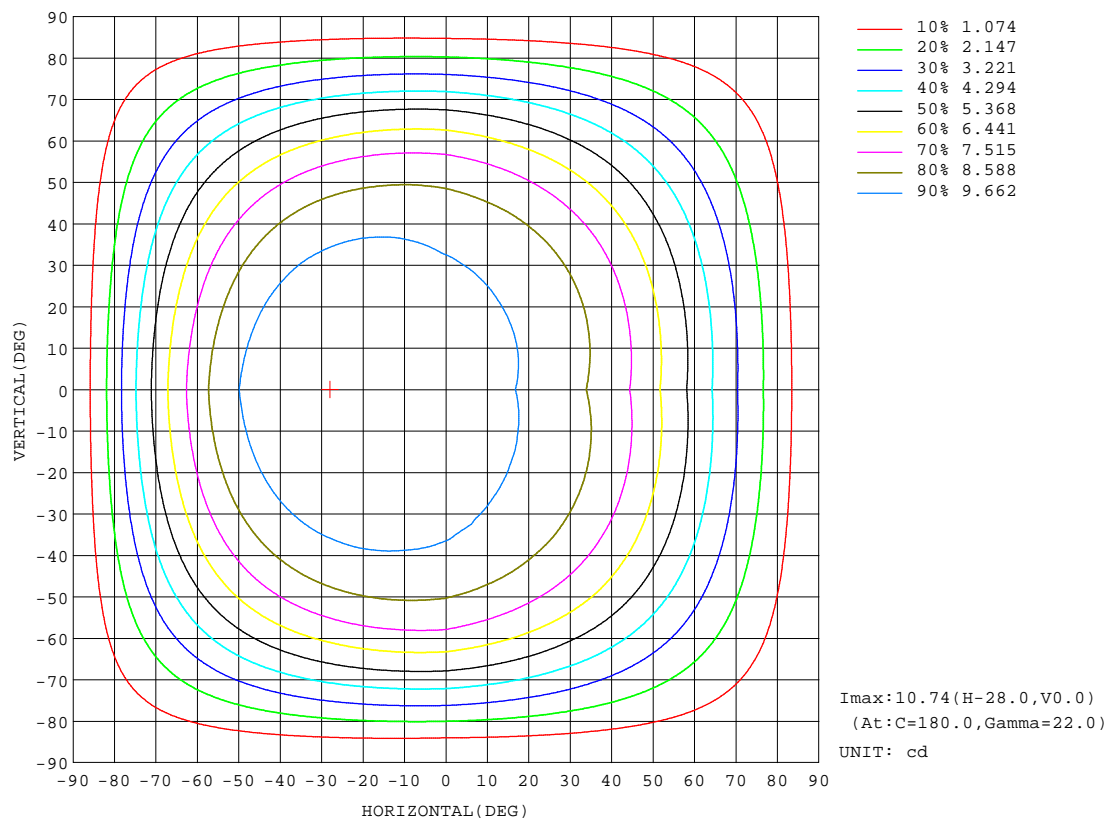
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	34	53	41	34	51	40	33	27
0.80	63	51	43	62	51	43	61	50	43	35
1.00	72	60	52	71	59	52	68	61	51	44
1.25	79	68	60	78	67	60	75	66	59	51
1.50	85	74	66	83	73	66	80	71	65	56
2.00	92	83	76	90	81	75	87	79	73	65
2.50	96	88	81	94	86	80	90	84	78	70
3.00	100	92	86	98	91	85	94	88	83	74
4.00	105	98	93	102	96	92	98	93	89	80
5.00	107	102	97	105	100	96	100	96	93	83
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2018-12-21

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:24.00V I:0.1030A P:2.472W PF:1.000 Freq:0Hz Lamp Flux:38.6636x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-B	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2018-12-21

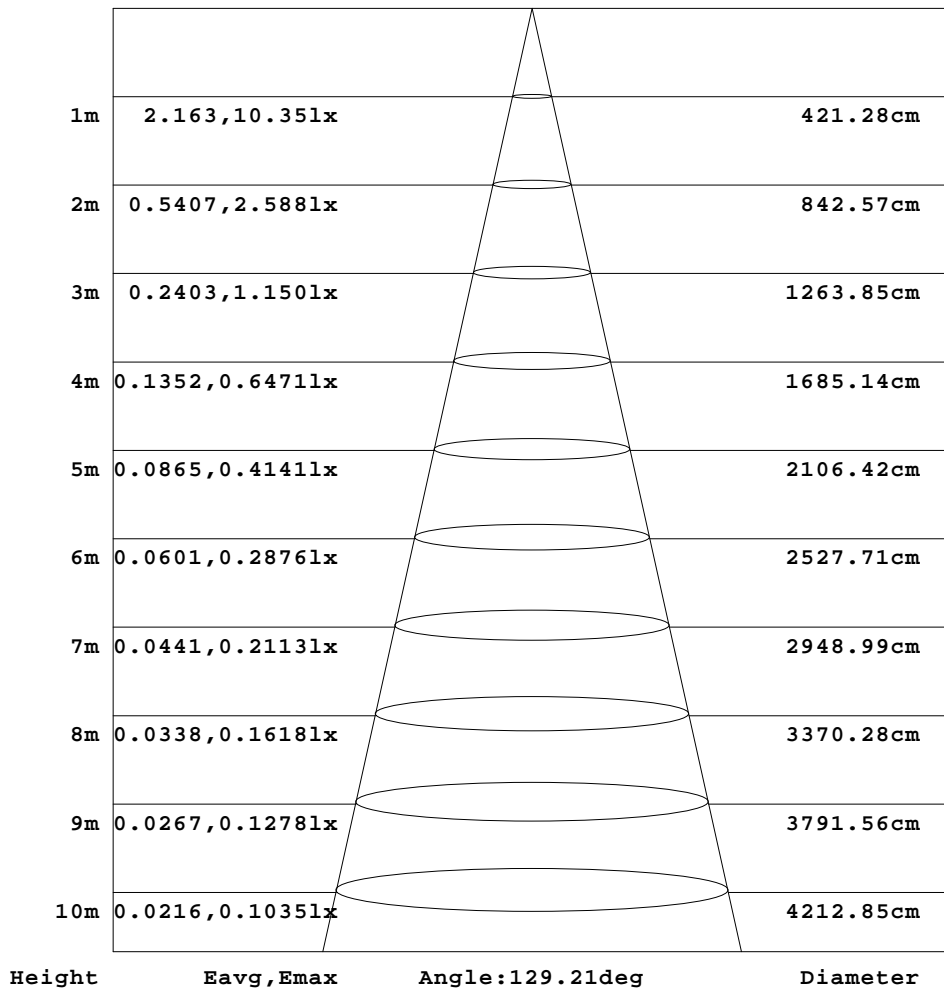
deg Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:24.00V I:0.1030A P:2.472W PF:1.000 Freq:0Hz Lamp Flux:38.6636x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-B	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:

Flux out:31.25 lm



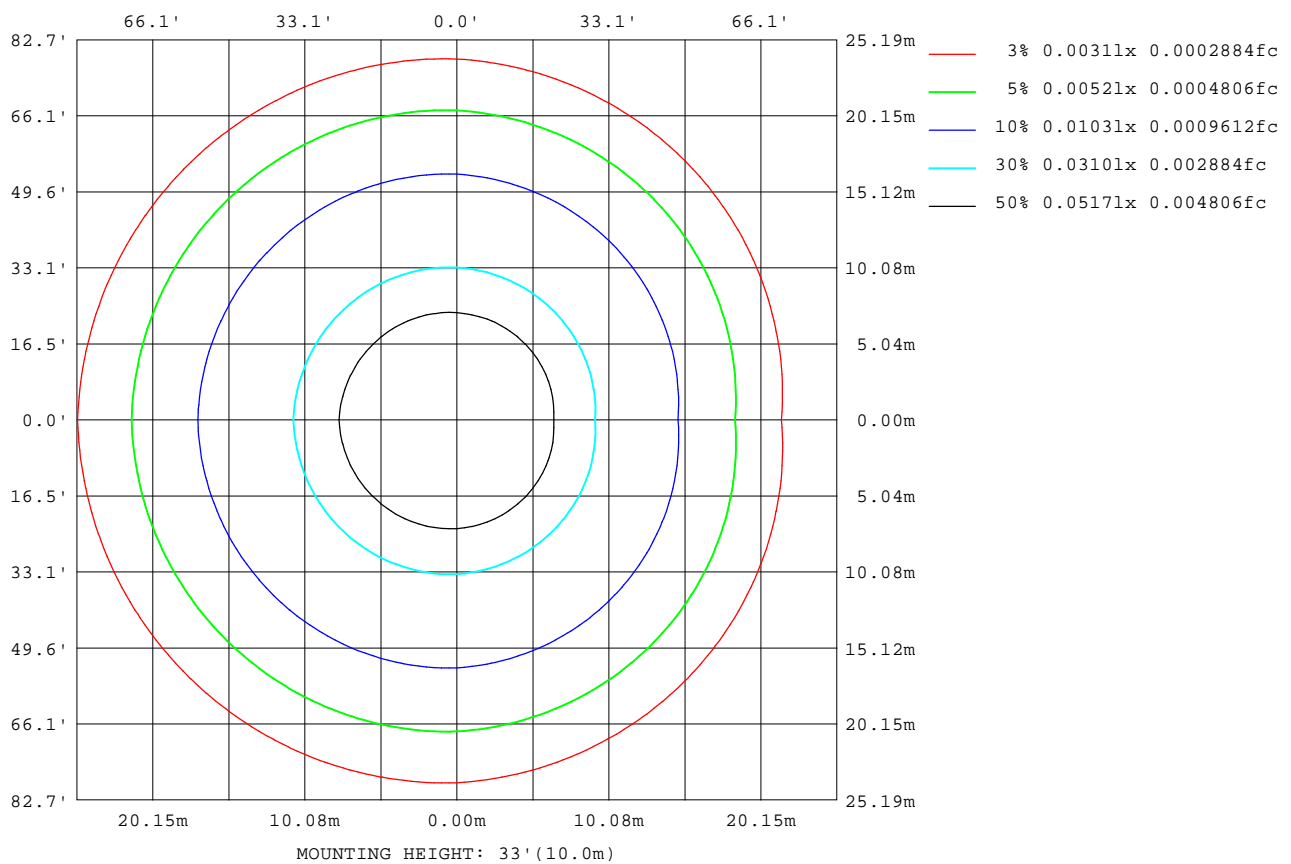
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:COLORS  
 Test Date:2018-12-21

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

Test:U:24.00V I:0.1030A P:2.472W PF:1.000 Freq:0Hz Lamp Flux:38.6636x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-B	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2018-12-21

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:24.00V I:0.1030A P:2.472W PF:1.000 Freq:0Hz Lamp Flux:38.6636x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-B	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:

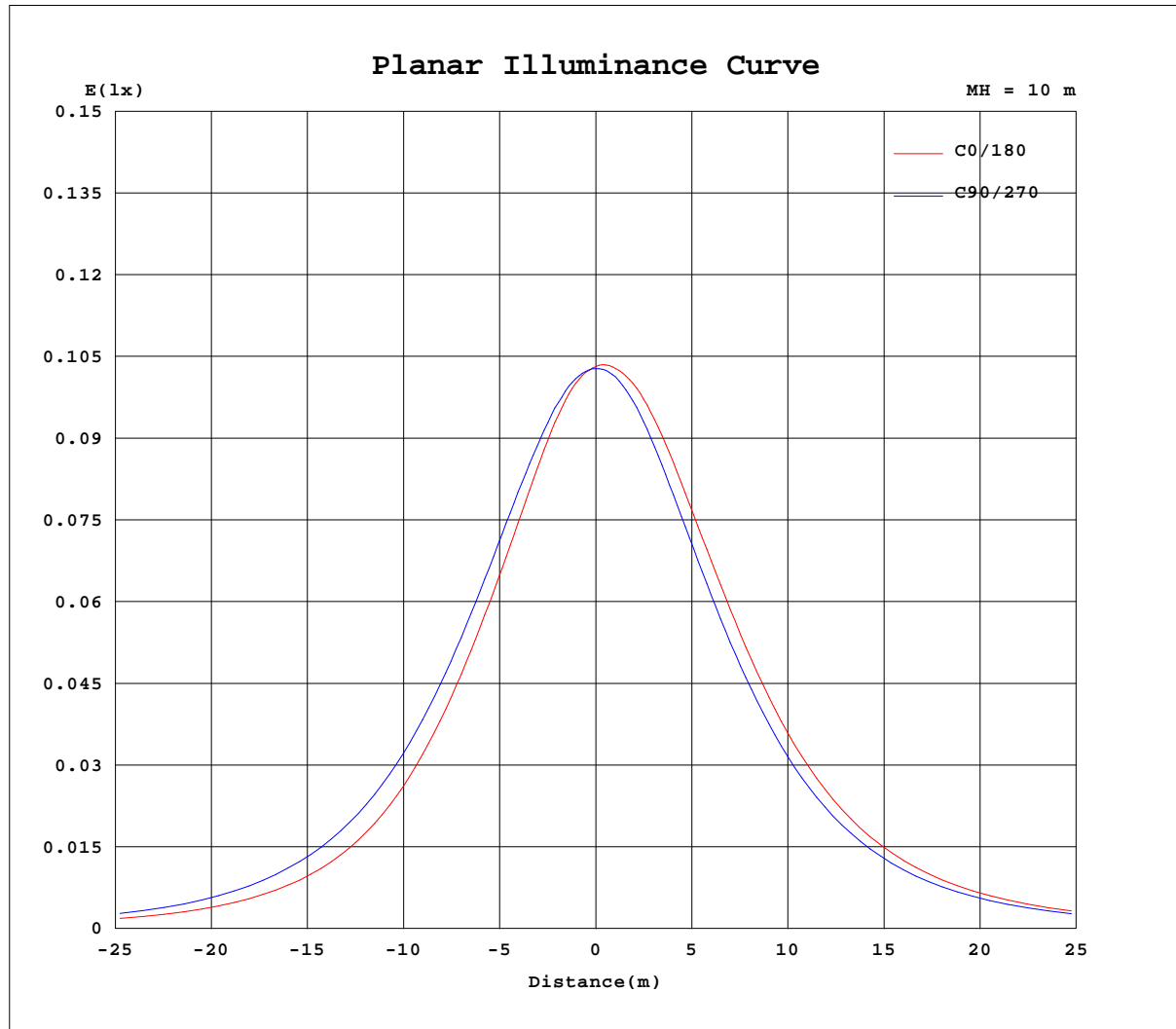
AvgL	cd/m2
L_0~180(65)av	2633
L_0~180(75)av	2574
L_0~180(85)av	2474
L_90~270(65)av	2833
L_90~270(75)av	2713
L_90~270(85)av	2102
L_45(65)av	2800
L_45(75)av	2705
L_45(85)av	2273

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:COLORS  
 Test Date:2018-12-21

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: COLORS  
Test Date: 2018-12-21

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.500m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.1030A P:2.472W PF:1.000 Freq:0Hz Lamp Flux:38.6636x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-B	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	90	180	270															
0	10.3	10.3	10.3	10.3															
5	10.2	10.3	10.4	10.3															
10	10.0	10.2	10.6	10.2															
15	9.76	10.2	10.7	10.2															
20	9.46	10.1	10.7	10.0															
25	9.17	10.0	10.7	9.91															
30	8.87	9.88	10.7	9.76															
35	8.50	9.72	10.7	9.56															
40	8.03	9.48	10.5	9.31															
45	7.42	9.13	10.2	8.93															
50	6.70	8.63	9.65	8.43															
55	5.89	7.96	8.97	7.78															
60	5.04	7.10	8.07	6.94															
65	4.16	6.05	6.97	5.93															
70	3.28	4.84	5.69	4.76															
75	2.42	3.54	4.24	3.48															
80	1.60	2.16	2.71	2.20															
85	0.85	0.83	1.30	1.00															
90	0.28	0.00	0.22	0.20															
95	0.00	0.00	0.00	0.00															
100	0.00	0.00	0.00	0.00															
105	0.00	0.00	0.00	0.00															
110	0.00	0.00	0.00	0.00															
115	0.00	0.00	0.00	0.00															
120	0.00	0.00	0.00	0.00															
125	0.00	0.00	0.00	0.00															
130	0.00	0.00	0.00	0.00															
135	0.00	0.00	0.00	0.00															
140	0.00	0.00	0.00	0.00															
145	0.00	0.00	0.00	0.00															
150	0.00	0.00	0.00	0.00															
155	0.00	0.00	0.00	0.00															
160	0.00	0.00	0.00	0.00															
165	0.00	0.00	0.00	0.00															
170	0.00	0.00	0.00	0.00															
175	0.00	0.00	0.00	0.00															
180	0.00	0.00	0.00	0.00															

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2018-12-21

g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks: