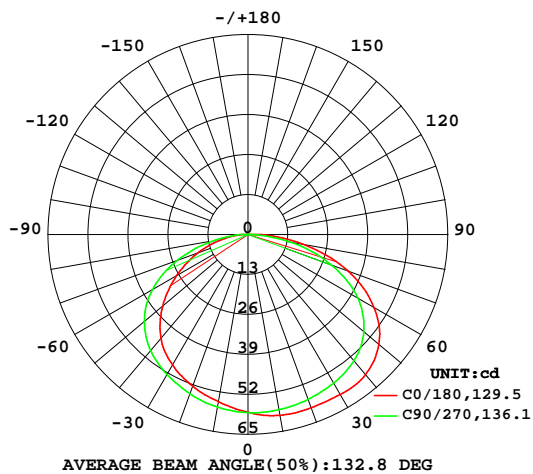


LUMINAIRE PHOTOMETRIC TEST REPORT

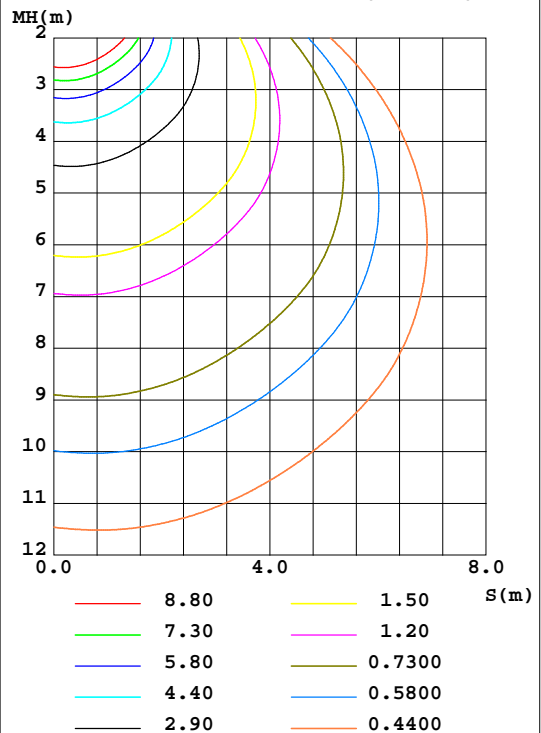
Test:U:24.00V I:0.1140A P:2.736W PF:1.000 Freq:0Hz Lamp Flux:217.157x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-G	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 79.37 lm/W			
MODEL	DA1202405NO	I _{max} (cd)	60.15	S/MH(C0/180)	1.27
NOMINAL POWER(W)	2.5	LOR(%)	100.0	S/MH(C90/270)	1.36
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	217.16	h UP,DN(C0-180)	0.3,56.0
NOMINAL FLUX(lm)	217.157	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.3,43.4
LAMPS INSIDE	1	h up(%)	0.6	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	h down(%)	99.4	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:

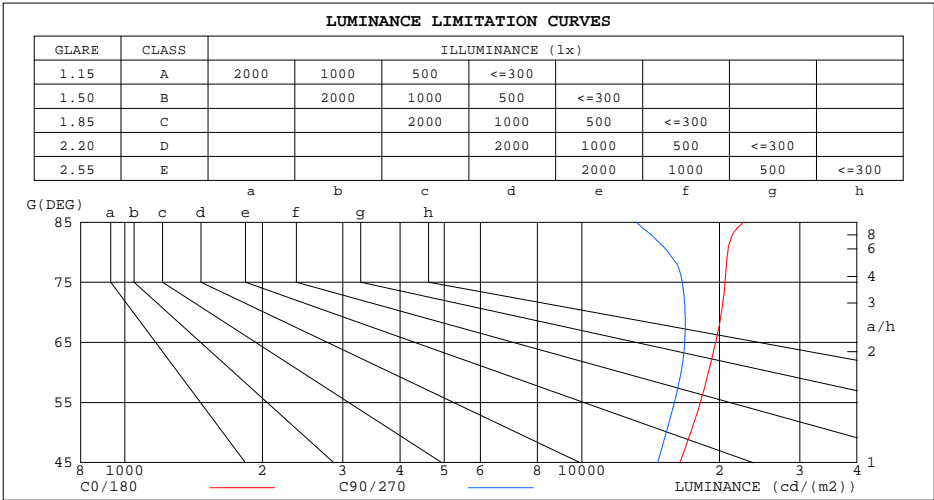
g	C0	C90	C180	C270					g	F zone	F total	%lum,lamp
10	59.70	57.86	55.22	56.99					0~ 10	5.505	5.505	2.54,2.54
20	59.96	57.09	52.57	55.13					10~ 20	16.11	21.61	9.95,9.95
30	60.06	55.78	49.06	52.62					20~ 30	25.57	47.18	21.7,21.7
40	59.50	53.59	44.04	49.28					30~ 40	33.36	80.54	37.1,37.1
50	55.61	49.17	36.25	43.99					40~ 50	38.01	118.6	54.6,54.6
60	47.30	41.24	26.81	35.90					50~ 60	37.88	156.4	72,72
70	34.56	28.76	17.16	24.31					60~ 70	31.92	188.4	86.7,86.7
80	18.11	13.42	7.894	10.92					70~ 80	20.54	208.9	96.2,96.2
90	3.230	0.3974	0.9776	1.385					80~ 90	7.037	215.9	99.4,99.4
100	0.0282	0.0659	0.1128	0.0906					90~100	0.3406	216.3	99.6,99.6
110	0.0439	0.1098	0.1630	0.1282					100~110	0.0947	216.4	99.6,99.6
120	0.0846	0.1567	0.2100	0.1535					110~120	0.1306	216.5	99.7,99.7
130	0.1315	0.1912	0.2413	0.1911					120~130	0.1551	216.7	99.8,99.8
140	0.1535	0.2193	0.2601	0.2099					130~140	0.1552	216.8	99.8,99.8
150	0.1880	0.2476	0.2695	0.2381					140~150	0.1417	217.0	99.9,99.9
160	0.2225	0.2570	0.2695	0.2381					150~160	0.1109	217.1	100,100
170	0.2444	0.2601	0.2695	0.2413					160~170	0.0713	217.1	100,100
180	0.2507	0.2601	0.2695	0.2538					170~180	0.0243	217.2	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
 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:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.1140A P:2.736W PF:1.000 Freq:0Hz Lamp Flux:217.157x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-G	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:



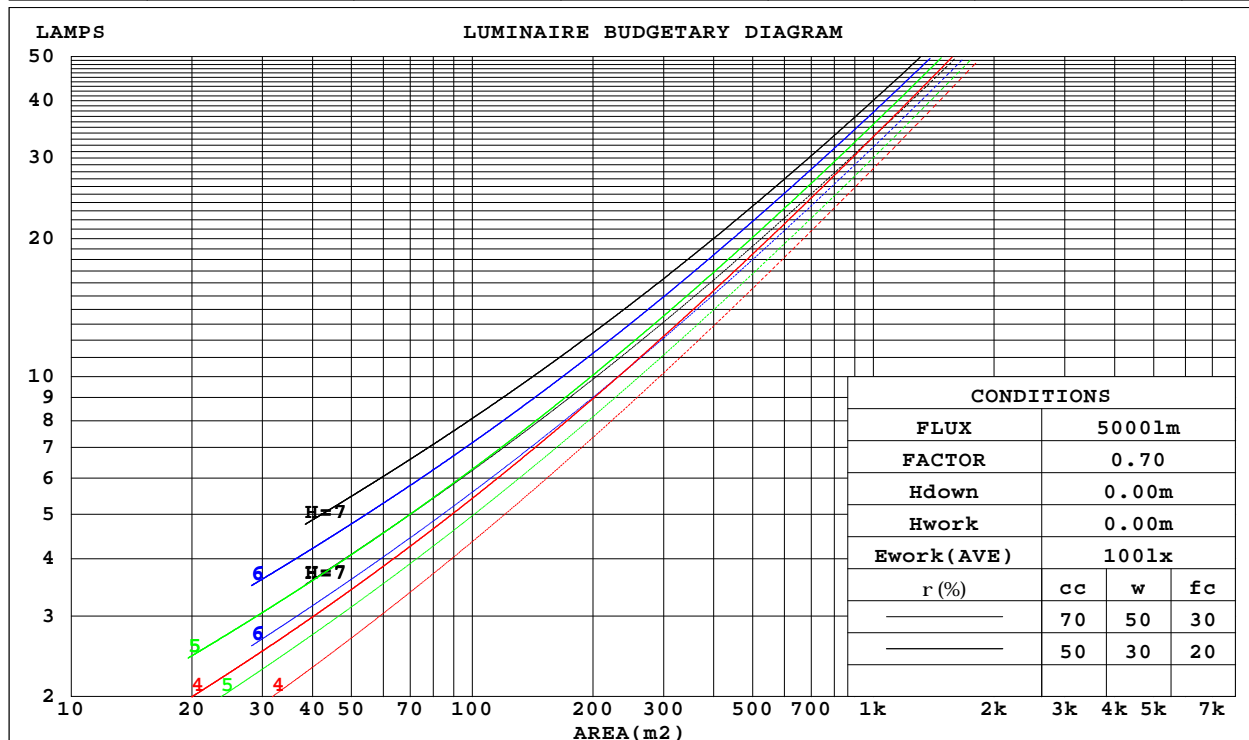
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2018-12-21

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:0.1140A P:2.736W PF:1.000 Freq:0Hz Lamp Flux:217.157x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-G	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 _{fc}	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:0.1140A P:2.736W PF:1.000 Freq:0Hz Lamp Flux:217.157x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-G	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	.347	.197	.062	.339	.194	.061	.325	.187	.060	.313	.180	.058	.301	.175	.056	
2.0	.320	.175	.054	.313	.172	.053	.301	.167	.052	.290	.162	.051	.279	.158	.050	
3.0	.292	.155	.047	.286	.153	.046	.275	.149	.045	.265	.145	.045	.256	.142	.044	
4.0	.267	.139	.041	.262	.137	.040	.252	.134	.040	.243	.130	.039	.235	.127	.039	
5.0	.245	.125	.036	.240	.123	.036	.232	.121	.035	.224	.118	.035	.216	.115	.035	
6.0	.226	.113	.032	.221	.112	.032	.214	.110	.032	.207	.107	.032	.200	.105	.031	
7.0	.209	.103	.029	.205	.102	.029	.198	.100	.029	.192	.098	.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	.085	.024	.168	.084	.024	.163	.083	.024	
10.0	.170	.081	.023	.167	.081	.023	.162	.079	.022	.158	.078	.022	.153	.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	.195	.195	.195	.166	.166	.166	.114	.114	.114	.065	.065	.065	.021	.021	.021	
1.0	.187	.160	.136	.160	.137	.117	.110	.095	.081	.063	.055	.047	.020	.018	.015	
2.0	.180	.136	.099	.154	.117	.086	.106	.081	.060	.061	.047	.035	.020	.015	.011	
3.0	.173	.119	.076	.148	.103	.066	.102	.071	.046	.059	.042	.027	.019	.014	.009	
4.0	.166	.106	.060	.142	.091	.052	.098	.064	.037	.057	.037	.022	.018	.012	.007	
5.0	.158	.096	.049	.136	.083	.043	.094	.058	.030	.054	.034	.018	.017	.011	.006	
6.0	.151	.087	.042	.130	.076	.036	.089	.053	.026	.052	.031	.015	.017	.010	.005	
7.0	.144	.081	.036	.124	.070	.032	.085	.049	.022	.050	.029	.013	.016	.009	.004	
8.0	.137	.075	.032	.118	.065	.028	.082	.046	.020	.047	.027	.012	.015	.009	.004	
9.0	.131	.070	.029	.112	.061	.025	.078	.043	.018	.045	.025	.011	.015	.008	.004	
10.0	.125	.066	.026	.107	.057	.023	.074	.040	.016	.043	.024	.010	.014	.008	.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:0.1140A P:2.736W PF:1.000 Freq:0Hz Lamp Flux:217.157x1 lm											
NAME: DA1202405NO					TYPE:			WEIGHT:			
SPEC.:DA1202405NO-0RGBNDA012WC0500-G					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	29.1	30.7	29.4	30.9	31.1	28.5	30.1	28.8	30.4	30.6	
	3H	31.2	32.7	31.5	32.9	33.2	30.5	32.0	30.8	32.2	32.5
	4H	32.1	33.6	32.5	33.8	34.1	31.3	32.7	31.6	33.0	33.3
	6H	32.9	34.2	33.2	34.5	34.8	31.9	33.2	32.2	33.5	33.8
	8H	33.2	34.5	33.5	34.8	35.1	32.1	33.4	32.4	33.7	34.0
	12H	33.4	34.7	33.8	35.0	35.3	32.2	33.5	32.6	33.8	34.1
4H	2H	29.8	31.2	30.1	31.5	31.8	29.4	30.8	29.7	31.1	31.4
	3H	32.1	33.3	32.4	33.6	34.0	31.5	32.8	31.9	33.1	33.4
	4H	33.1	34.3	33.5	34.6	35.0	32.4	33.6	32.8	33.9	34.3
	6H	34.0	35.1	34.5	35.4	35.8	33.2	34.2	33.6	34.6	35.0
	8H	34.4	35.4	34.8	35.8	36.2	33.4	34.4	33.9	34.8	35.2
	12H	34.7	35.6	35.2	36.0	36.4	33.6	34.5	34.0	34.9	35.3
8H	4H	33.5	34.4	33.9	34.8	35.2	32.9	33.8	33.3	34.2	34.6
	6H	34.6	35.4	35.0	35.8	36.2	33.8	34.6	34.3	35.0	35.5
	8H	35.0	35.8	35.5	36.2	36.7	34.2	34.9	34.6	35.3	35.8
	12H	35.5	36.1	36.0	36.6	37.1	34.4	35.0	34.9	35.5	36.0
12H	4H	33.5	34.4	33.9	34.8	35.2	32.9	33.8	33.4	34.2	34.6
	6H	34.7	35.4	35.1	35.8	36.3	33.9	34.6	34.4	35.1	35.6
	8H	35.2	35.8	35.7	36.3	36.8	34.3	35.0	34.8	35.4	35.9
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.5					

CIE Pub.117, 217.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -5.3)

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:0.1140A P:2.736W PF:1.000 Freq:0Hz Lamp Flux:217.157x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-G	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:

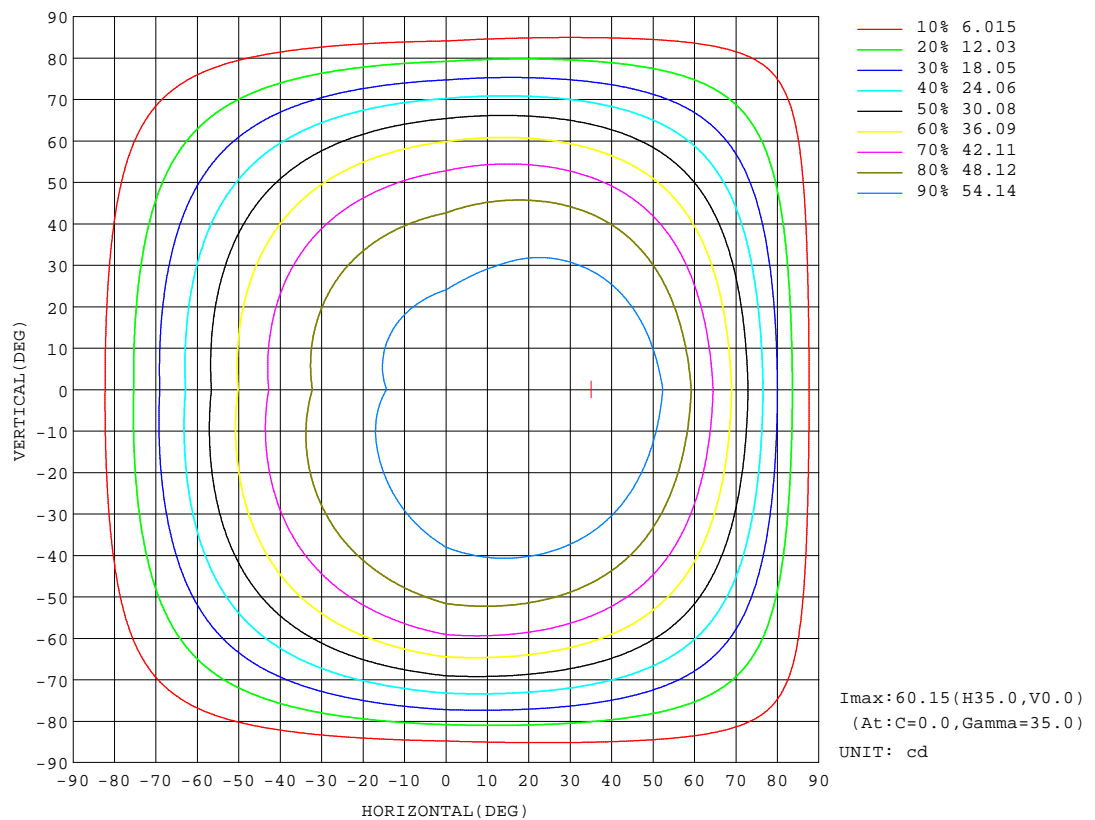
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	41	33	52	41	33	51	40	33	26
0.80	63	51	43	62	50	43	60	49	42	35
1.00	72	60	52	70	59	51	68	61	51	43
1.25	79	68	60	78	67	59	75	65	58	50
1.50	84	73	66	83	72	65	79	71	64	56
2.00	92	82	75	90	81	74	86	79	73	64
2.50	96	87	81	94	86	80	90	83	78	69
3.00	100	92	86	98	90	85	93	87	83	73
4.00	104	98	93	102	96	91	97	92	88	79
5.00	107	102	97	104	100	95	100	96	92	82
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:0.1140A P:2.736W PF:1.000 Freq:0Hz Lamp Flux:217.157x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-G	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:



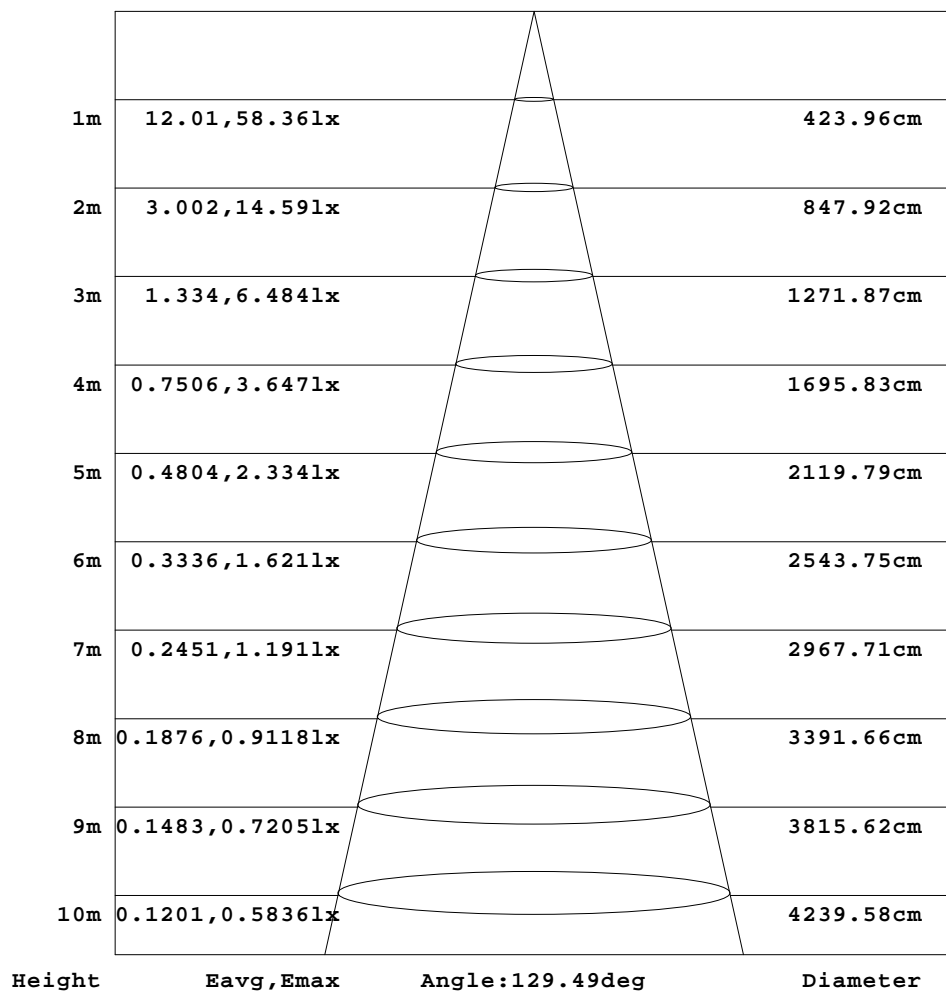
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: COLORS
Test Date: 2018-12-21

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:

AAI Figure

Test:U:24.00V I:0.1140A P:2.736W PF:1.000 Freq:0Hz Lamp Flux:217.157x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-G	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:

Flux out:173.5 lm



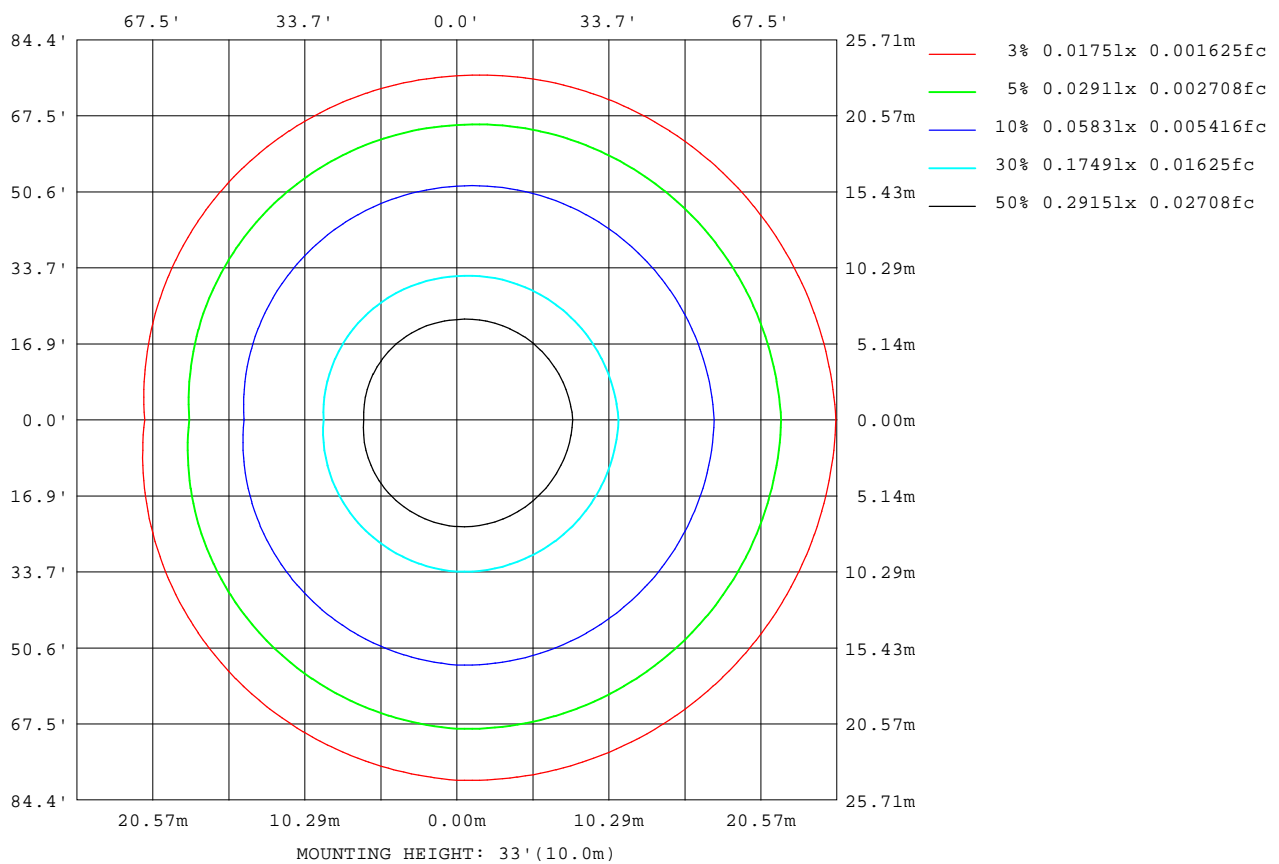
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 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:0.1140A P:2.736W PF:1.000 Freq:0Hz Lamp Flux:217.157x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-G	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:

LED Avg.L Report

Test:U:24.00V I:0.1140A P:2.736W PF:1.000 Freq:0Hz Lamp Flux:217.157x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-G	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:

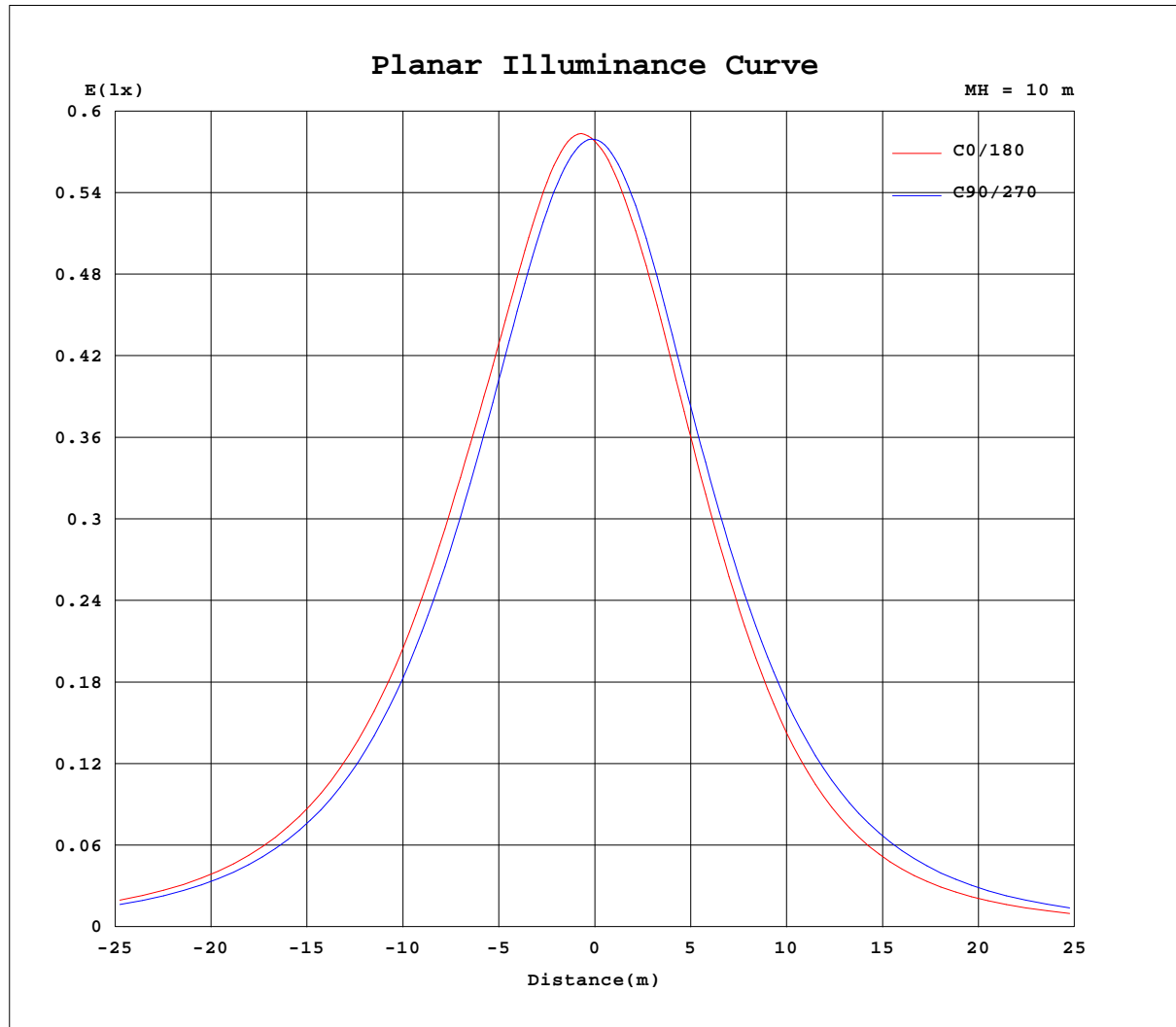
AvgL	cd/m2
L_0~180(65)av	15010
L_0~180(75)av	15070
L_0~180(85)av	15877
L_90~270(65)av	15604
L_90~270(75)av	15090
L_90~270(85)av	12397
L_45(65)av	15093
L_45(75)av	14738
L_45(85)av	13281

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:0.1140A P:2.736W PF:1.000 Freq:0Hz Lamp Flux:217.157x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-G	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:

Table--1

UNIT: cd

C(DEC) g (DEC)	0	90	180	270															
0	57.8	57.9	57.8	57.9															
5	59.0	58.0	56.6	57.6															
10	59.7	57.9	55.2	57.0															
15	60.0	57.6	54.0	56.2															
20	60.0	57.1	52.6	55.1															
25	59.9	56.5	50.9	53.9															
30	60.1	55.8	49.1	52.6															
35	60.2	54.9	46.9	51.1															
40	59.5	53.6	44.0	49.3															
45	58.0	51.8	40.4	46.9															
50	55.6	49.2	36.2	44.0															
55	52.1	45.7	31.6	40.4															
60	47.3	41.2	26.8	35.9															
65	41.4	35.5	22.0	30.5															
70	34.6	28.8	17.2	24.3															
75	26.6	21.5	12.4	17.6															
80	18.1	13.4	7.89	10.9															
85	9.85	5.73	3.98	5.07															
90	3.23	0.40	0.98	1.38															
95	0.31	0.05	0.09	0.05															
100	0.03	0.07	0.11	0.09															
105	0.03	0.09	0.13	0.09															
110	0.04	0.11	0.16	0.13															
115	0.06	0.13	0.19	0.14															
120	0.08	0.16	0.21	0.15															
125	0.10	0.17	0.23	0.19															
130	0.13	0.19	0.24	0.19															
135	0.13	0.21	0.26	0.21															
140	0.15	0.22	0.26	0.21															
145	0.18	0.23	0.26	0.23															
150	0.19	0.25	0.27	0.24															
155	0.20	0.25	0.27	0.24															
160	0.22	0.26	0.27	0.24															
165	0.24	0.26	0.27	0.24															
170	0.24	0.26	0.27	0.24															
175	0.24	0.26	0.27	0.24															
180	0.25	0.26	0.27	0.25															

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
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks: