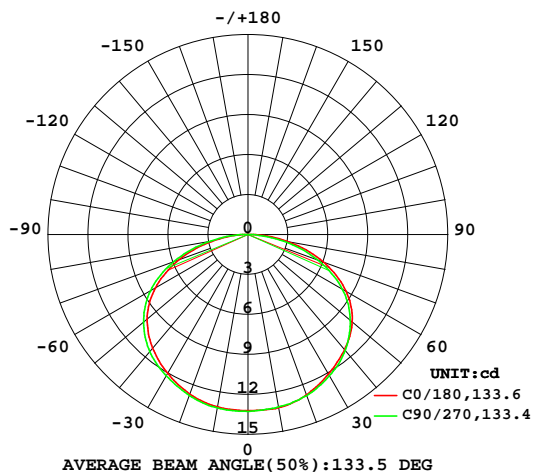


LUMINAIRE PHOTOMETRIC TEST REPORT

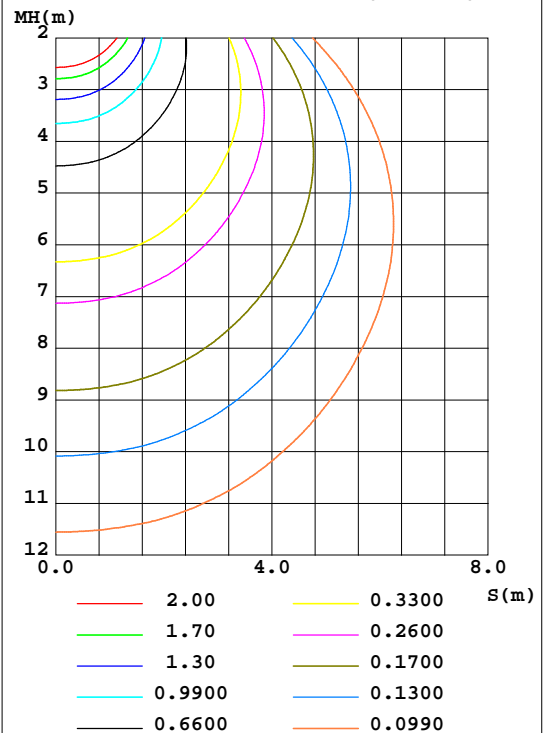
Test:U:24.00V I:0.1020A P:2.448W PF:1.000 Freq:0Hz Lamp Flux:47.5528x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-R	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 19.43 lm/W			
MODEL	DA1202405NO	I _{max} (cd)	13.28	S/MH(C0/180)	1.36
NOMINAL POWER(W)	2.5	LOR(%)	100.0	S/MH(C90/270)	1.38
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	47.553	h UP,DN(C0-180)	0.0,50.1
NOMINAL FLUX(lm)	47.5528	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,49.8
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:

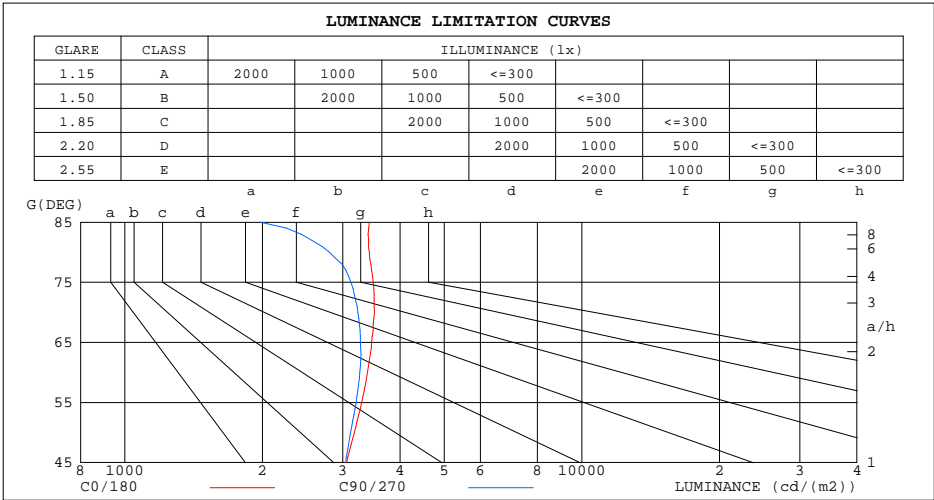
g	C0	C90	C180	C270					g	F zone	F total	%lum,lamp
10	13.21	13.13	13.13	13.21					0~ 10	1.261	1.261	2.65,2.65
20	12.82	12.88	12.75	12.85					10~ 20	3.688	4.949	10.4,10.4
30	12.09	12.24	12.05	12.26					20~ 30	5.778	10.73	22.6,22.6
40	11.28	11.36	11.13	11.47					30~ 40	7.373	18.10	38.1,38.1
50	10.21	10.03	9.879	10.23					40~ 50	8.301	26.40	55.5,55.5
60	8.495	8.172	8.034	8.449					50~ 60	8.282	34.68	72.9,72.9
70	6.014	5.535	5.462	5.889					60~ 70	6.990	41.67	87.6,87.6
80	2.975	2.435	2.475	2.806					70~ 80	4.452	46.13	97,97
90	0.4341	0	0.1676	0.2569					80~ 90	1.393	47.52	99.9,99.9
100	0	0	0	0					90~100	0.0345	47.55	100,100
110	0	0	0	0					100~110	0	47.55	100,100
120	0	0	0	0					110~120	0	47.55	100,100
130	0	0	0	0					120~130	0	47.55	100,100
140	0	0	0	0					130~140	0	47.55	100,100
150	0	0	0	0					140~150	0	47.55	100,100
160	0	0	0	0					150~160	0	47.55	100,100
170	0	0	0	0					160~170	0	47.55	100,100
180	0	0	0	0					170~180	0	47.55	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:0.1020A P:2.448W PF:1.000 Freq:0Hz Lamp Flux:47.5528x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-R	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3427	1977
80	3427	2804
75	3498	3120
70	3517	3237
65	3466	3279
60	3398	3269
55	3298	3208
50	3178	3119
45	3058	3041

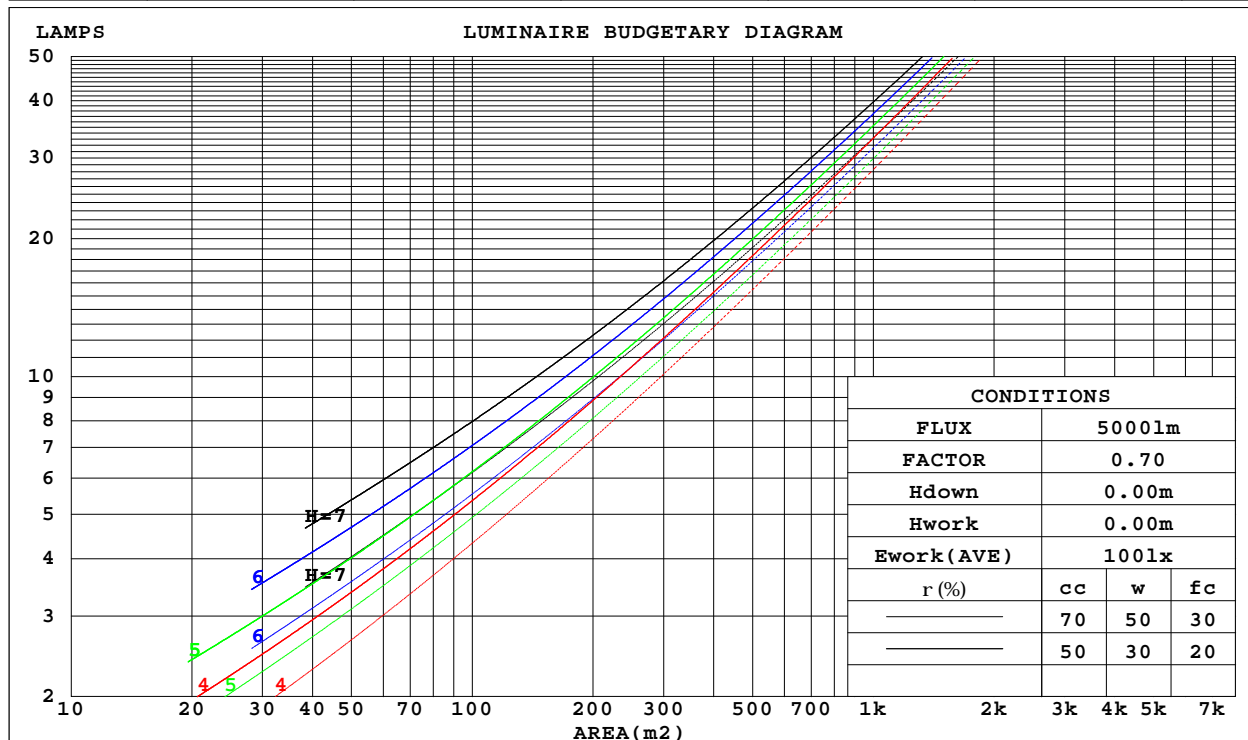
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2018-12-21

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:0.1020A P:2.448W PF:1.000 Freq:0Hz Lamp Flux:47.5528x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-R	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	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
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:0.1020A P:2.448W PF:1.000 Freq:0Hz Lamp Flux:47.5528x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-R	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	.342	.195	.062	.335	.191	.061	.321	.184	.059	.309	.178	.057	.298	.173	.056															
2.0	.317	.174	.053	.310	.171	.053	.299	.166	.052	.287	.161	.050	.277	.157	.049															
3.0	.290	.154	.046	.284	.152	.046	.274	.148	.045	.264	.145	.044	.255	.141	.044															
4.0	.265	.138	.041	.260	.136	.040	.251	.133	.040	.242	.130	.039	.234	.127	.039															
5.0	.243	.124	.036	.239	.123	.036	.231	.120	.035	.223	.118	.035	.216	.115	.035															
6.0	.224	.113	.032	.221	.111	.032	.213	.109	.032	.206	.107	.031	.200	.105	.031															
7.0	.208	.103	.029	.204	.102	.029	.198	.100	.029	.191	.098	.029	.186	.096	.028															
8.0	.193	.094	.027	.190	.094	.026	.184	.092	.026	.179	.091	.026	.173	.089	.026															
9.0	.181	.087	.024	.178	.087	.024	.172	.085	.024	.167	.084	.024	.163	.083	.024															
10.0	.169	.081	.023	.167	.081	.022	.162	.079	.022	.157	.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	.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	.096	.151	.114	.083	.103	.079	.058	.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	.161	.102	.056	.138	.088	.049	.095	.061	.035	.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	.146	.083	.038	.126	.072	.033	.087	.051	.024	.050	.030	.014	.016	.010	.005	
7.0	.139	.077	.033	.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	.126	.066	.025	.109	.057	.022	.075	.040	.015	.044	.024	.009	.014	.008	.003	
10.0	.120	.062	.022	.104	.053	.020	.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:0.1020A P:2.448W PF:1.000 Freq:0Hz Lamp Flux:47.5528x1 lm										
NAME: DA1202405NO					TYPE:			WEIGHT:		
SPEC.:DA1202405NO-0RGBNDA012WC0500-R					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	27.9	29.5	28.2	29.7	29.9	27.8	29.4	28.1	29.6	29.8
3H	29.9	31.4	30.2	31.6	31.9	29.6	31.1	29.9	31.4	31.6
4H	30.7	32.2	31.0	32.4	32.7	30.4	31.8	30.7	32.1	32.3
6H	31.4	32.7	31.7	33.0	33.3	30.9	32.3	31.3	32.6	32.9
8H	31.6	32.9	32.0	33.2	33.5	31.1	32.4	31.5	32.7	33.0
12H	31.8	33.1	32.2	33.4	33.7	31.2	32.4	31.5	32.7	33.0
4H 2H	28.6	30.1	29.0	30.3	30.6	28.5	30.0	28.9	30.2	30.5
3H	30.8	32.0	31.1	32.3	32.6	30.6	31.8	30.9	32.1	32.4
4H	31.8	32.9	32.1	33.2	33.6	31.5	32.6	31.8	32.9	33.3
6H	32.6	33.6	33.0	33.9	34.3	32.1	33.2	32.5	33.5	33.9
8H	32.9	33.8	33.3	34.2	34.6	32.4	33.3	32.8	33.7	34.1
12H	33.1	34.0	33.5	34.4	34.8	32.5	33.4	32.9	33.7	34.2
8H 4H	32.1	33.0	32.5	33.4	33.8	31.8	32.8	32.3	33.2	33.6
6H	33.1	33.9	33.5	34.3	34.7	32.7	33.5	33.1	33.9	34.3
8H	33.5	34.2	33.9	34.6	35.1	33.0	33.7	33.5	34.1	34.6
12H	33.8	34.4	34.3	34.9	35.4	33.2	33.8	33.7	34.2	34.7
12H 4H	32.1	33.0	32.5	33.4	33.8	31.9	32.8	32.3	33.1	33.6
6H	33.1	33.8	33.6	34.3	34.7	32.8	33.5	33.2	33.9	34.4
8H	33.6	34.2	34.1	34.7	35.1	33.1	33.7	33.6	34.2	34.7
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	+ 0.1 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 47.55 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -10.6)

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:0.1020A P:2.448W PF:1.000 Freq:0Hz Lamp Flux:47.5528x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-R	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:

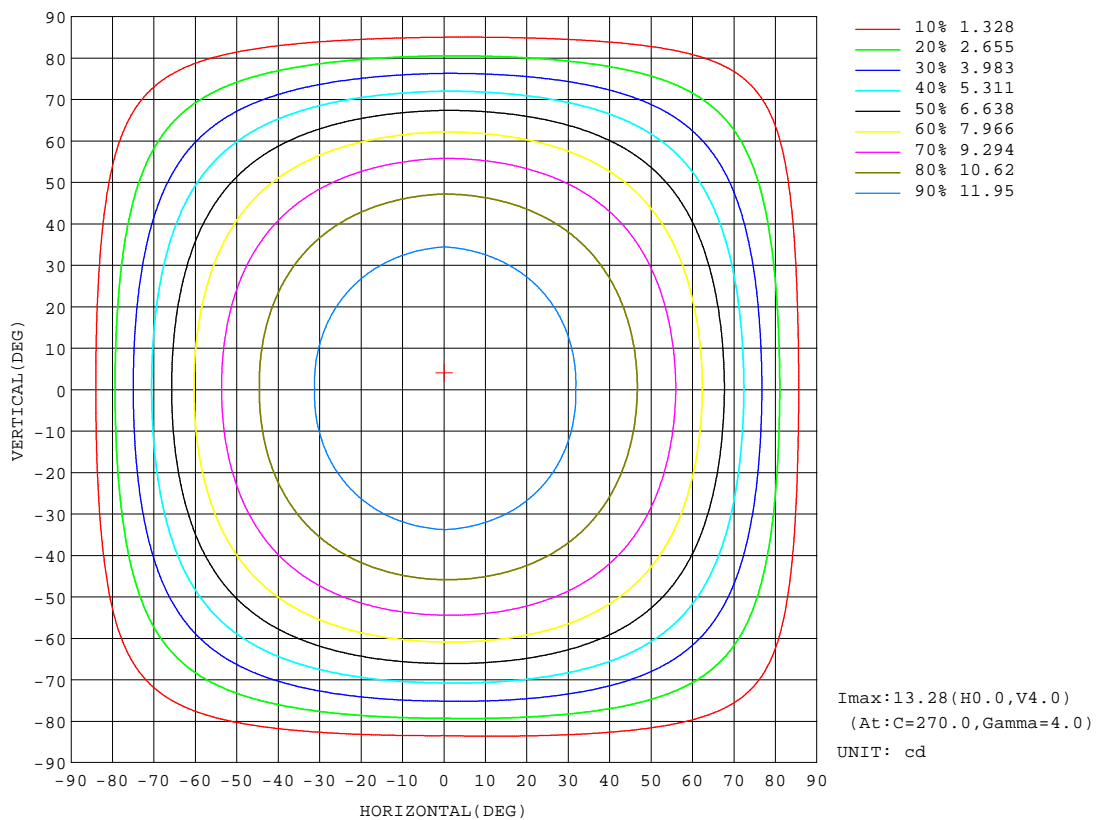
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	54	42	34	53	41	34	52	41	34	27
0.80	64	51	44	63	51	43	61	50	43	36
1.00	72	60	52	71	60	52	69	61	52	44
1.25	80	68	60	78	67	60	75	66	59	51
1.50	85	74	66	83	73	66	80	71	65	57
2.00	92	83	76	90	82	75	87	79	73	65
2.50	97	88	81	94	87	80	90	84	79	70
3.00	100	93	87	98	91	85	94	88	83	74
4.00	105	98	93	102	97	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:0.1020A P:2.448W PF:1.000 Freq:0Hz Lamp Flux:47.5528x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-R	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:



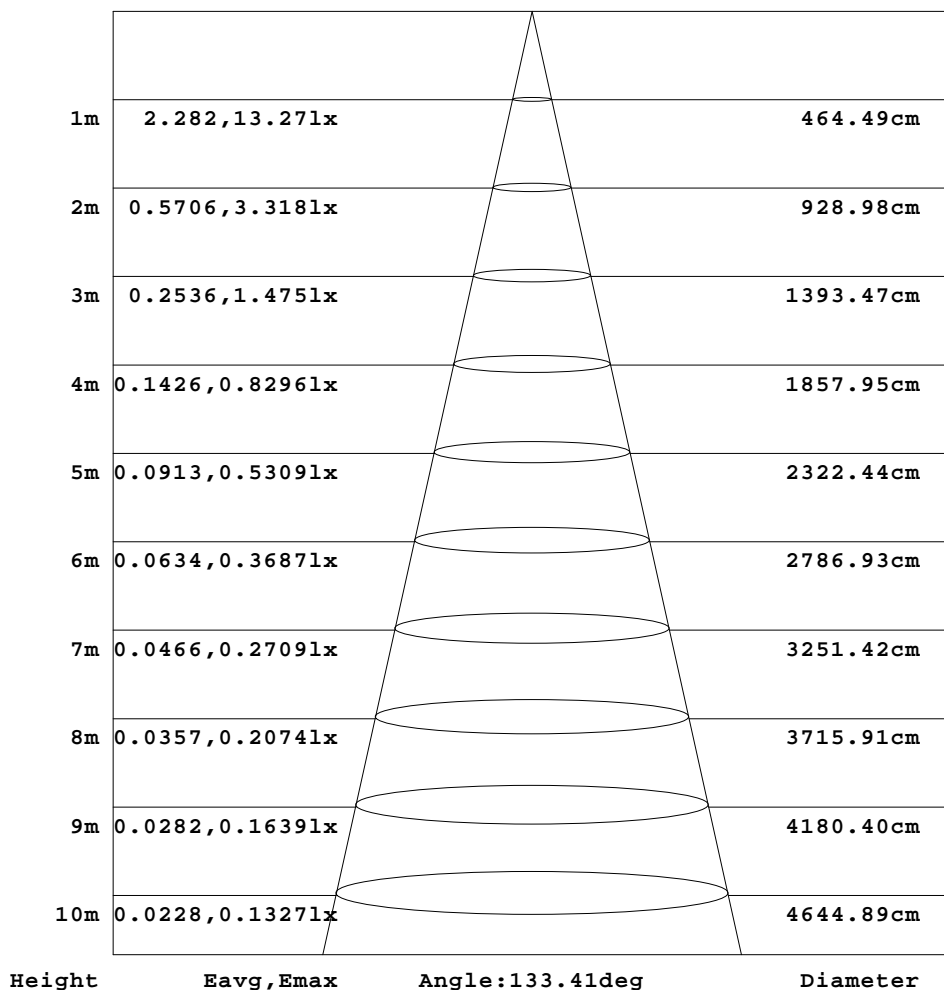
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2018-12-21

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:0.1020A P:2.448W PF:1.000 Freq:0Hz Lamp Flux:47.5528x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-R	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:

Flux out:39.79 lm



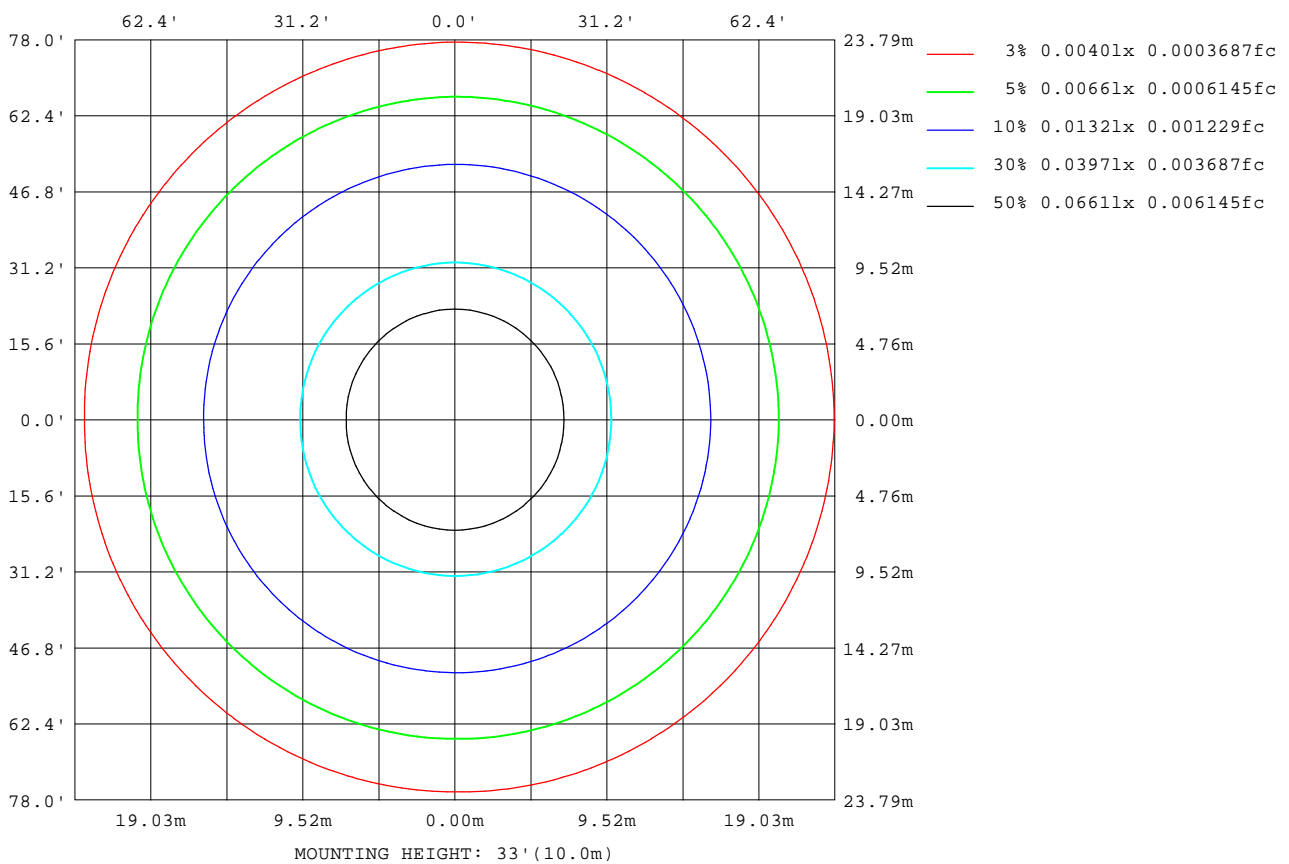
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1020A P:2.448W PF:1.000 Freq:0Hz Lamp Flux:47.5528x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-R	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:0.1020A P:2.448W PF:1.000 Freq:0Hz Lamp Flux:47.5528x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-R	DIM.: 1000*5*1.5MM	SERIAL No.:01
MFR.: Colors	SUR.:1000*5MM	Shielding Angle:

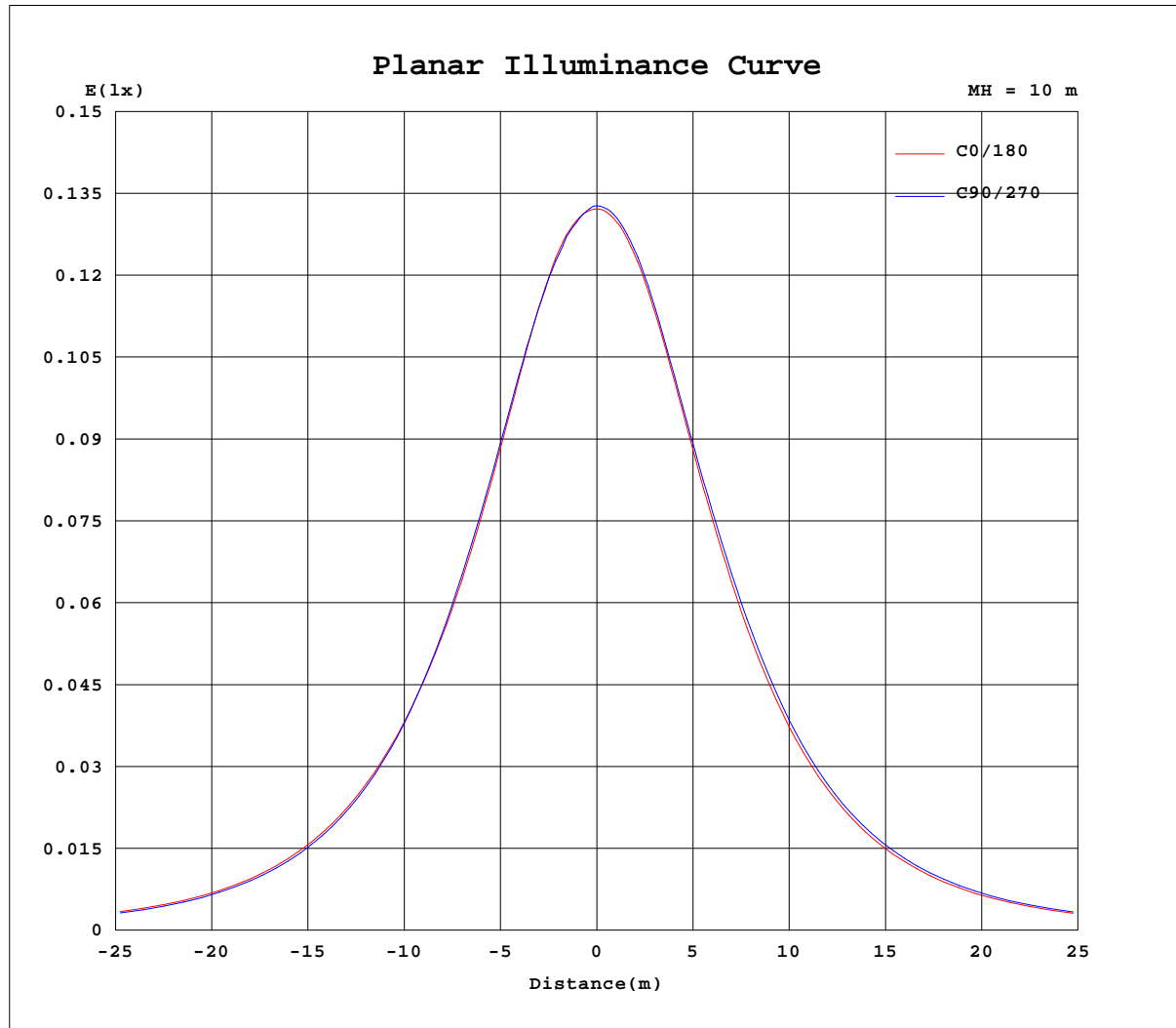
AvgL	cd/m2
L_0~180(65)av	3348
L_0~180(75)av	3286
L_0~180(85)av	2960
L_90~270(65)av	3355
L_90~270(75)av	3253
L_90~270(85)av	2505
L_45(65)av	3345
L_45(75)av	3252
L_45(85)av	2646

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:0.1020A P:2.448W PF:1.000 Freq:0Hz Lamp Flux:47.5528x1 lm		
NAME: DA1202405NO	TYPE:	WEIGHT:
SPEC.:DA1202405NO-0RGBNDA012WC0500-R	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	13.2	13.3	13.2	13.3															
5	13.2	13.2	13.2	13.3															
10	13.2	13.1	13.1	13.2															
15	13.1	13.0	13.0	13.1															
20	12.8	12.9	12.8	12.8															
25	12.5	12.6	12.4	12.6															
30	12.1	12.2	12.0	12.3															
35	11.7	11.9	11.6	11.9															
40	11.3	11.4	11.1	11.5															
45	10.8	10.8	10.6	10.9															
50	10.2	10.0	9.88	10.2															
55	9.46	9.20	9.05	9.43															
60	8.50	8.17	8.03	8.45															
65	7.32	6.93	6.83	7.25															
70	6.01	5.54	5.46	5.89															
75	4.53	4.04	3.98	4.38															
80	2.98	2.43	2.47	2.81															
85	1.49	0.86	1.09	1.32															
90	0.43	0.00	0.17	0.26															
95	0.01	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

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: