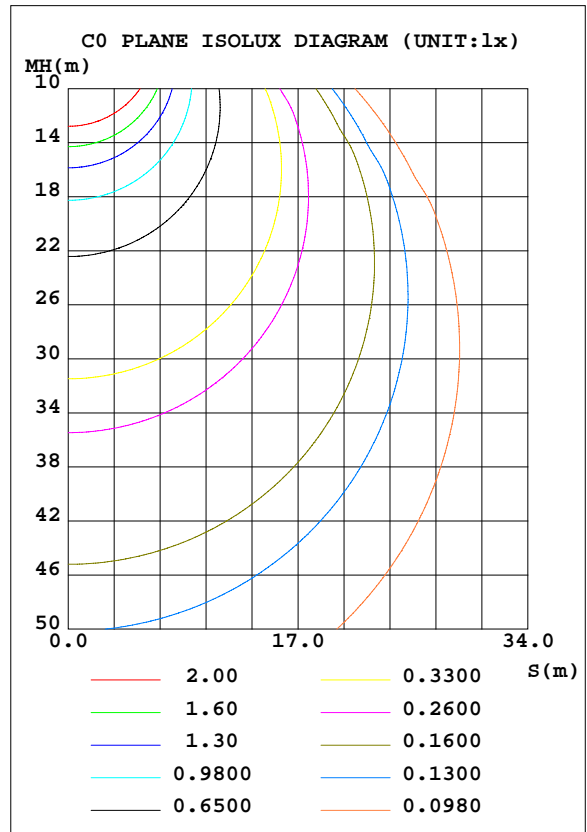
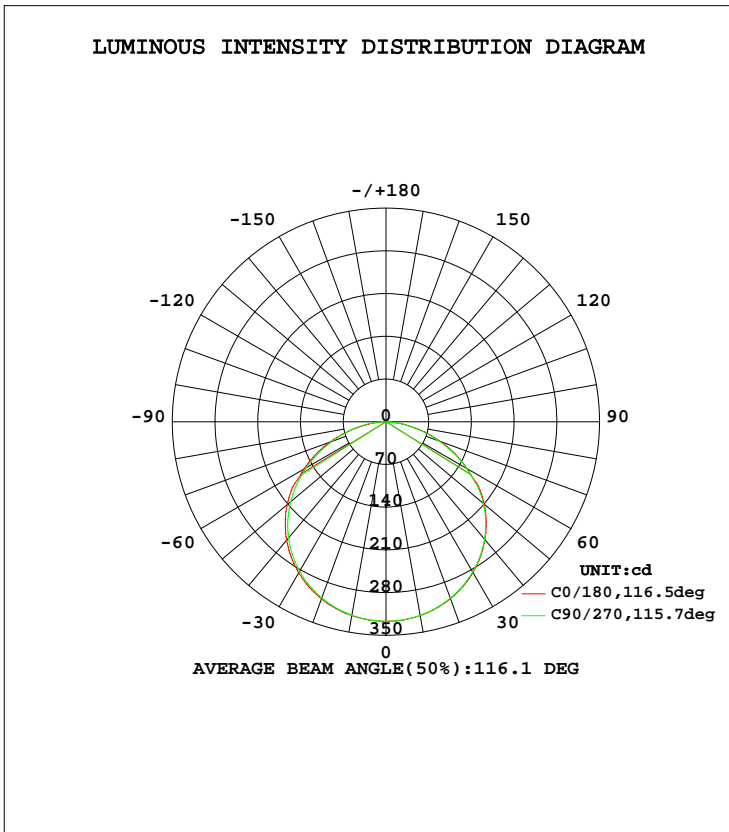


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.7600A P:18.24W PF:1.000 Lamp Flux:981.412x1 lm		
NAME: D560	TYPE:	WEIGHT:
SPEC.:D5602412NO-ORGBLWWNDS020WC0500	DIM.: 1000*12mm	SERIAL No.:混
MFR.: Colors	SUR.:1000*12mm	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 53.81 lm/W			
D5602412NO-ORGBLWWNDS020WC0500		Imax(cd)	327.0	S/MH(C0/180)	1.30
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	981.41	$\eta$ UP, DN(C0-180)	0.2,49.6
NOMINAL FLUX(lm)	981.412	CIE CLASS	DIRECT	$\eta$ UP, DN(C180-360)	0.2,50.0
LAMPS INSIDE	1	$\eta$ up(%)	0.4	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	$\eta$ down(%)	99.6	CIBSE SHR MAX	1.50



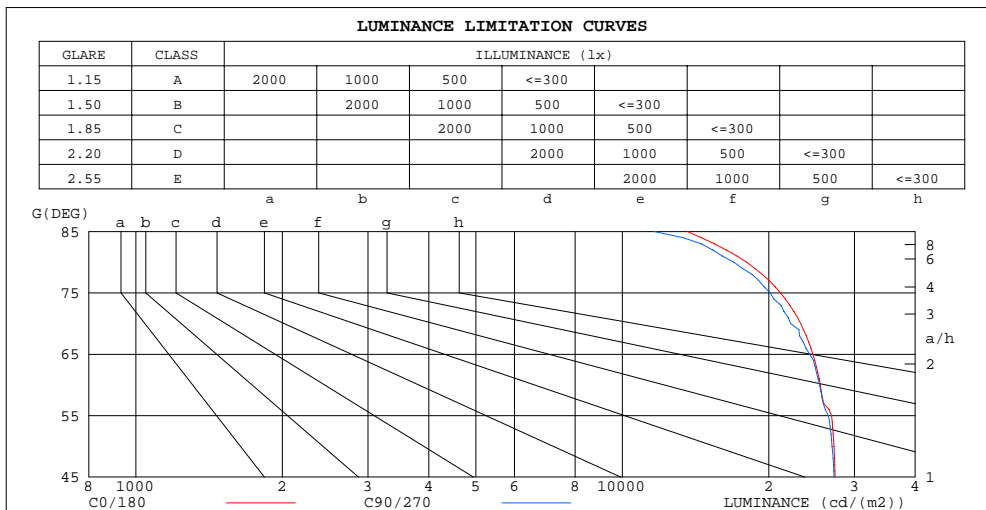
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LPB  
 Test Date:2017-11-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
 Humidity:21.8%  
 Test Distance:10.500m [K=1.0000]  
 Remarks: 混合

ZONAL FLUX DIAGRAM  
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C90	C180	C270				$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum,lamp
10	322.4	322.3	322.5	321.9				0- 10	30.99	30.99	3.16,3.16
20	308.6	307.7	308.9	307.4				10- 20	89.36	120.3	12.3,12.3
30	285.2	284.3	285.8	283.0				20- 30	137.2	257.5	26.2,26.2
40	252.3	251.4	253.2	248.5				30- 40	168.4	425.9	43.4,43.4
50	210.0	208.1	211.4	203.8				40- 50	178.2	604.1	61.6,61.6
60	153.2	152.6	155.0	150.8				50- 60	162.4	766.5	78.1,78.1
70	95.51	90.99	97.85	93.89				60- 70	122.9	889.5	90.6,90.6
80	37.54	35.30	39.64	42.94				70- 80	69.77	959.2	97.7,97.7
90	2.006	0.1484	2.603	0.2497				80- 90	18.38	977.6	99.6,99.6
100	0.2367	0.2781	0.2412	0.1975				90-100	0.3855	978.0	99.7,99.7
110	0.3521	0.4326	0.3709	0.2964				100-110	0.3130	978.3	99.7,99.7
120	0.5001	0.5995	0.5316	0.4629				110-120	0.4346	978.7	99.7,99.7
130	0.6609	0.7783	0.6988	0.6481				120-130	0.5430	979.3	99.8,99.8
140	0.8275	0.9270	0.8593	0.7965				130-140	0.5977	979.9	99.8,99.8
150	0.9702	1.056	1.020	0.9633				140-150	0.5853	980.5	99.9,99.9
160	1.100	1.168	1.143	1.081				150-160	0.4935	981.0	100,100
170	1.205	1.211	1.217	1.161				160-170	0.3301	981.3	100,100
180	1.267	1.248	1.248	1.217				170-180	0.1165	981.4	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	13603	11609
80	18013	16944
75	21162	20137
70	23265	22176
65	24644	24268
60	25520	25441
55	26929	26520
50	27224	26989
45	27374	27235

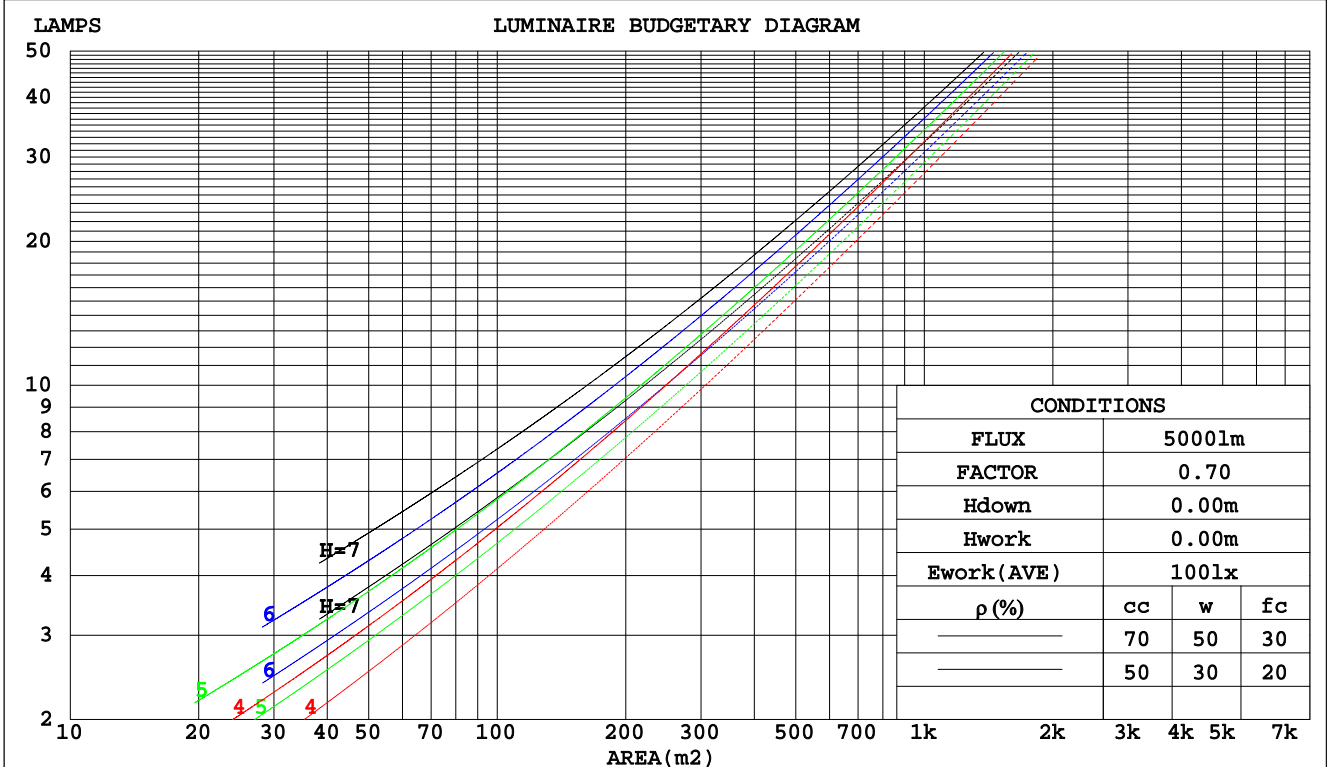
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:LPB  
Test Date:2017-11-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
Humidity:21.8%  
Test Distance:10.500m [K=1.0000]  
Remarks: 混合

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.7600A P:18.24W PF:1.000 Lamp Flux:981.412x1 lm		
NAME: D560	TYPE:	WEIGHT:
SPEC.:D5602412NO-ORGBLWVWVND020WC0500	DIM.: 1000*12mm	SERIAL No.:混
MFR.: Colors	SUR.:1000*12mm	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	.00
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.75	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.45	.39	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.45	.37	.32	.44	.37	.31	.43	.36	.31	.42	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.36	.30	.25	.23



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LPB  
 Test Date:2017-11-21

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
 Humidity:21.8%  
 Test Distance:10.500m [K=1.0000]  
 Remarks: 混合

WEC AND CCEC

Test:U:24.00V I:0.7600A P:18.24W PF:1.000 Lamp Flux:981.412x1 lm		
NAME: D560	TYPE:	WEIGHT:
SPEC.:D5602412NO-ORGBLWNDS020WC0500	DIM.: 1000*12mm	SERIAL No.:混
MFR.: Colors	SUR.:1000*12mm	PROTECTION 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	.312	.177	.056	.305	.174	.055	.291	.167	.053	.279	.161	.052	.267	.155	.050	
2.0	.294	.161	.049	.288	.158	.049	.276	.153	.048	.265	.148	.046	.254	.144	.045	
3.0	.272	.145	.043	.266	.143	.043	.256	.139	.042	.246	.135	.041	.237	.131	.041	
4.0	.251	.130	.038	.246	.129	.038	.237	.125	.037	.228	.122	.037	.220	.119	.036	
5.0	.232	.118	.034	.228	.117	.034	.219	.114	.034	.211	.112	.033	.204	.109	.033	
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.190	.100	.030	
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027	
8.0	.187	.091	.026	.184	.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	

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	.193	.193	.193	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.183	.159	.137	.157	.137	.118	.107	.094	.082	.062	.054	.047	.020	.017	.015	
2.0	.176	.135	.101	.150	.116	.087	.103	.080	.061	.059	.047	.036	.019	.015	.012	
3.0	.168	.117	.077	.144	.101	.067	.099	.070	.047	.057	.041	.028	.018	.013	.009	
4.0	.160	.104	.061	.138	.090	.053	.095	.063	.037	.055	.037	.022	.018	.012	.007	
5.0	.153	.094	.050	.131	.081	.043	.090	.057	.031	.052	.033	.018	.017	.011	.006	
6.0	.146	.085	.042	.125	.074	.037	.086	.052	.026	.050	.030	.015	.016	.010	.005	
7.0	.139	.078	.036	.120	.068	.031	.083	.048	.022	.048	.028	.013	.016	.009	.004	
8.0	.132	.073	.032	.114	.063	.028	.079	.044	.020	.046	.026	.012	.015	.009	.004	
9.0	.126	.068	.028	.109	.059	.025	.075	.041	.017	.044	.024	.010	.014	.008	.003	
10.0	.121	.063	.025	.104	.055	.022	.072	.039	.016	.042	.023	.009	.014	.008	.003	

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LPB  
 Test Date:2017-11-21

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
 Humidity:21.8%  
 Test Distance:10.500m [K=1.0000]  
 Remarks: 混合

UGR(Unified Glare Rating) Table

Test:U:24.00V I:0.7600A P:18.24W PF:1.000 Lamp Flux:981.412x1 lm										
NAME: D560					TYPE:			WEIGHT:		
SPEC.:D5602412NO-ORGBLWVWVND020WC0500					DIM.: 1000*12mm			SERIAL No.:混		
MFR.: Colors					SUR.:1000*12mm			PROTECTION 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	24.3	25.8	24.6	26.0	26.3	24.3	25.8	24.6	26.0	26.2
3H	25.8	27.2	26.1	27.5	27.7	25.7	27.1	26.0	27.4	27.6
4H	26.4	27.7	26.7	28.0	28.3	26.3	27.6	26.6	27.9	28.1
6H	26.8	28.0	27.1	28.3	28.6	26.6	27.9	27.0	28.2	28.5
8H	26.9	28.1	27.2	28.4	28.7	26.7	27.9	27.1	28.2	28.5
12H	26.9	28.1	27.3	28.4	28.7	26.7	27.9	27.1	28.2	28.5
4H 2H	24.9	26.3	25.2	26.5	26.8	24.9	26.2	25.2	26.5	26.8
3H	26.6	27.8	26.9	28.1	28.4	26.5	27.7	26.9	28.0	28.3
4H	27.3	28.4	27.7	28.7	29.0	27.2	28.2	27.5	28.6	28.9
6H	27.8	28.7	28.2	29.1	29.5	27.6	28.6	28.0	28.9	29.3
8H	27.9	28.8	28.3	29.2	29.6	27.8	28.7	28.2	29.0	29.4
12H	28.0	28.8	28.4	29.2	29.6	27.8	28.7	28.3	29.0	29.5
8H 4H	27.5	28.4	27.9	28.8	29.2	27.4	28.3	27.8	28.7	29.1
6H	28.1	28.9	28.6	29.3	29.7	28.0	28.8	28.5	29.2	29.6
8H	28.4	29.0	28.8	29.4	29.9	28.2	28.9	28.7	29.3	29.8
12H	28.5	29.1	29.0	29.5	30.0	28.3	28.9	28.8	29.4	29.8
12H 4H	27.5	28.3	27.9	28.7	29.1	27.4	28.2	27.9	28.6	29.0
6H	28.2	28.8	28.6	29.3	29.7	28.1	28.7	28.5	29.1	29.6
8H	28.4	29.0	28.9	29.4	29.9	28.3	28.9	28.8	29.3	29.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 981.4 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.1)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LPB  
 Test Date:2017-11-21

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
 Humidity:21.8%  
 Test Distance:10.500m [K=1.0000]  
 Remarks: 混合

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.7600A P:18.24W PF:1.000 Lamp Flux:981.412x1 lm		
NAME: D560	TYPE:	WEIGHT:
SPEC.:D5602412NO-ORGBLWVWDS020WC0500	DIM.: 1000*12mm	SERIAL No.:混
MFR.: Colors	SUR.:1000*12mm	PROTECTION 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	44	38	31
0.80	67	55	48	66	55	47	64	54	47	40
1.00	75	64	57	74	64	56	72	65	56	49
1.25	83	72	65	81	71	64	78	70	63	56
1.50	88	78	70	86	77	70	83	75	69	61
2.00	95	86	79	93	85	79	89	82	77	69
2.50	99	91	85	96	89	84	93	87	82	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	96	104	98	94	99	95	91	82
5.00	108	104	99	106	102	98	101	98	95	85
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:LPB  
 Test Date:2017-11-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
 Humidity:21.8%  
 Test Distance:10.500m [K=1.0000]  
 Remarks: 混合

ISOCANDELA DIAGRAM

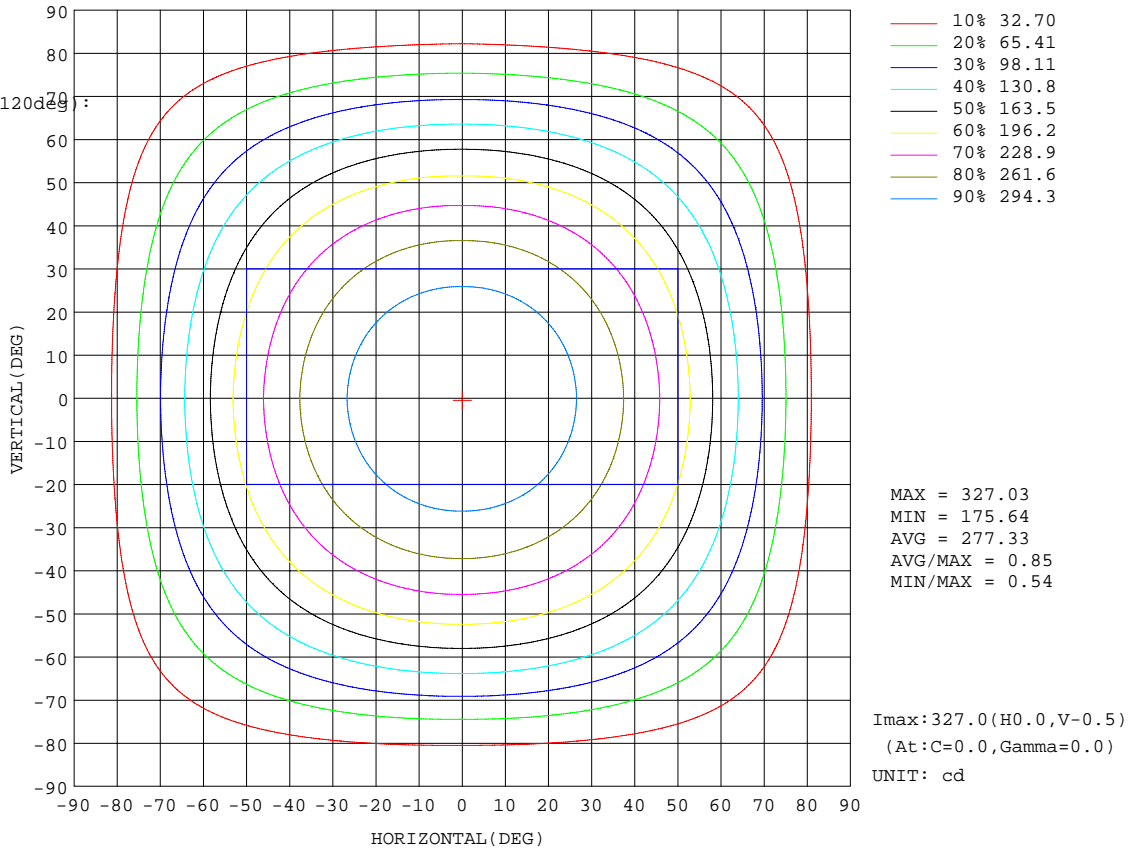
Test:U:24.00V I:0.7600A P:18.24W PF:1.000 Lamp Flux:981.412x1 lm		
NAME: D560	TYPE:	WEIGHT:
SPEC.:D5602412NO-ORGBLWWNDS020WC0500	DIM.: 1000*12mm	SERIAL No.:混
MFR.: Colors	SUR.:1000*12mm	PROTECTION ANGLE:

Conical surface Flux(90deg):

515.28 lm  
%lum = 52.5%  
%lamp = 52.5%

Conical surface Flux(120deg):

766.53 lm  
%lum = 78.1%  
%lamp = 78.1%

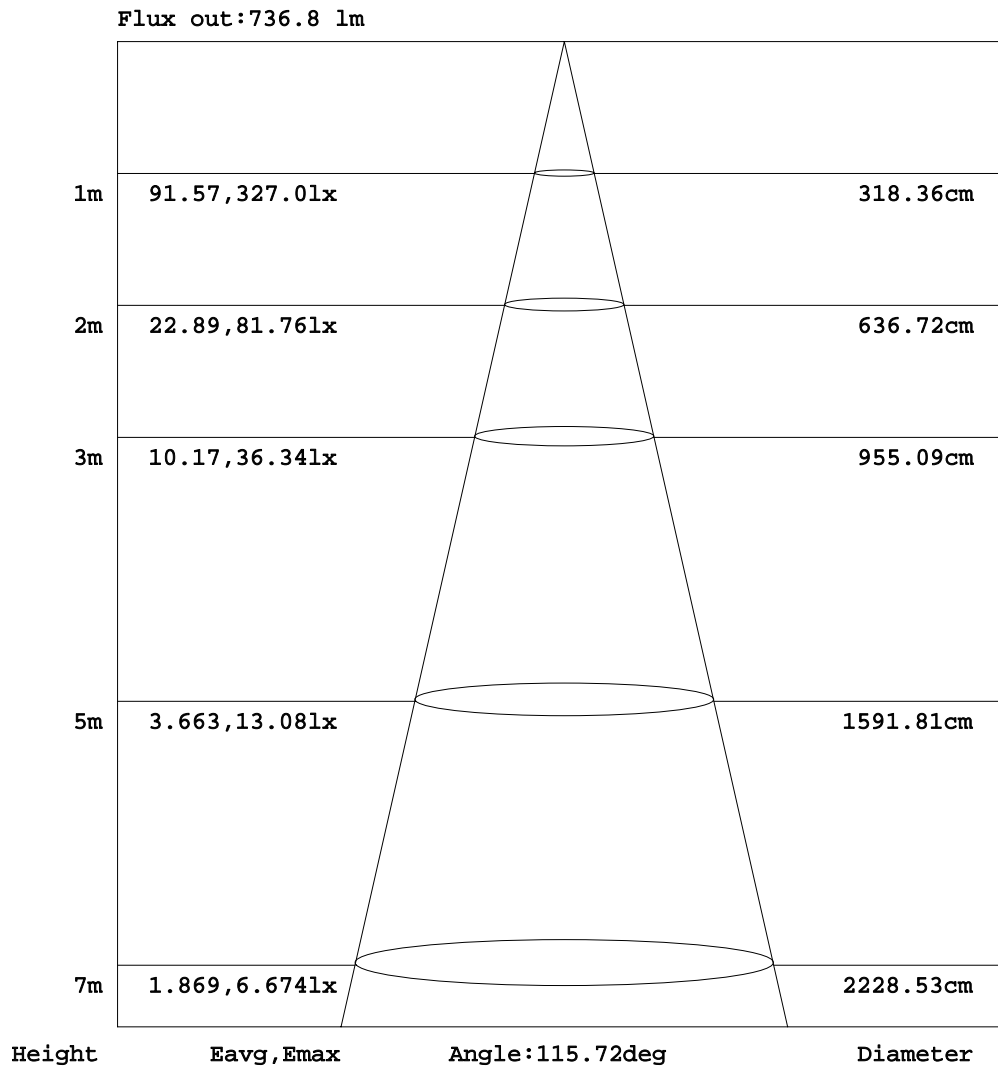


C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: LPB  
Test Date: 2017-11-21

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
Humidity: 21.8%  
Test Distance: 10.500m [K=1.0000]  
Remarks: 混合

AAI Figure

Test:U:24.00V I:0.7600A P:18.24W PF:1.000 Lamp Flux:981.412x1 lm		
NAME: D560	TYPE:	WEIGHT:
SPEC.:D5602412NO-ORGBLWWNDS020WC0500	DIM.: 1000*12mm	SERIAL No.:混
MFR.: Colors	SUR.:1000*12mm	PROTECTION ANGLE:



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

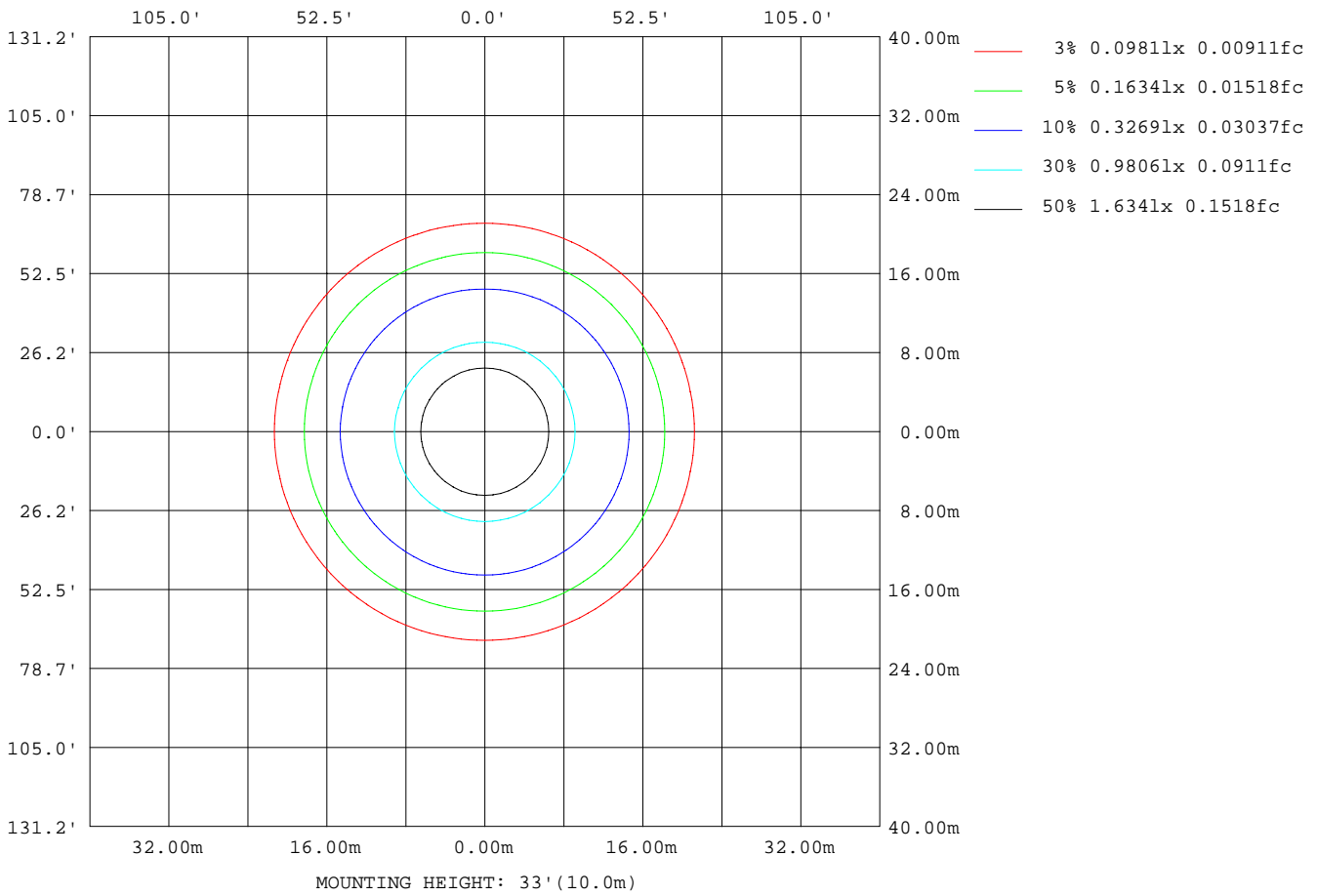
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LPB  
 Test Date:2017-11-21

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
 Humidity:21.8%  
 Test Distance:10.500m [K=1.0000]  
 Remarks: 混合



ISOLUX DIAGRAM

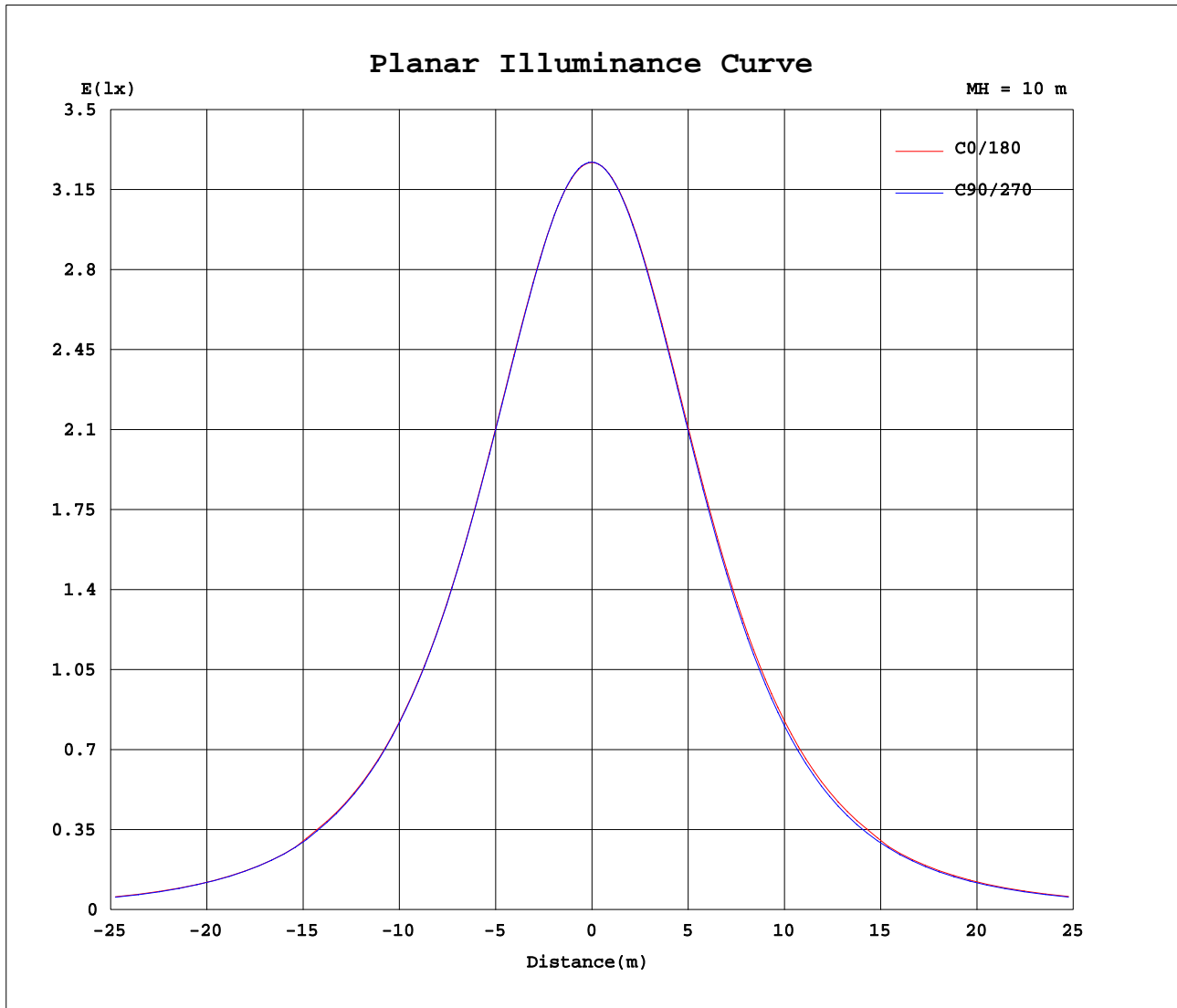
Test:U:24.00V I:0.7600A P:18.24W PF:1.000 Lamp Flux:981.412x1 lm		
NAME: D560	TYPE:	WEIGHT:
SPEC.:D5602412NO-ORGBLWWNDS020WC0500	DIM.: 1000*12mm	SERIAL No.:混
MFR.: Colors	SUR.:1000*12mm	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LPB  
 Test Date:2017-11-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
 Humidity:21.8%  
 Test Distance:10.500m [K=1.0000]  
 Remarks: 混合

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: LPB  
 Test Date: 2017-11-21

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
 Humidity: 21.8%  
 Test Distance: 10.500m [K=1.0000]  
 Remarks: 混合

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.7600A P:18.24W PF:1.000 Lamp Flux:981.412x1 lm		
NAME: D560	TYPE:	WEIGHT:
SPEC.:D5602412NO-ORGBLWVWNS020WC0500	DIM.: 1000*12mm	SERIAL No.:混
MFR.: Colors	SUR.:1000*12mm	PROTECTION ANGLE:

Table--1

UNIT: cd

C( DEG) γ (DEG)	0	90	180	270															
0	327	327	327	327															
5	326	326	326	326															
10	322	322	323	322															
15	317	316	317	316															
20	309	308	309	307															
25	298	297	299	296															
30	285	284	286	283															
35	270	269	271	267															
40	252	251	253	248															
45	232	231	234	227															
50	210	208	211	204															
55	185	182	187	178															
60	153	153	155	151															
65	125	123	127	122															
70	95.5	91.0	97.9	93.9															
75	65.7	62.5	68.1	67.2															
80	37.5	35.3	39.6	42.9															
85	14.2	12.1	15.6	20.5															
90	2.01	0.15	2.60	0.25															
95	0.25	0.20	0.19	0.17															
100	0.24	0.28	0.24	0.20															
105	0.28	0.35	0.30	0.26															
110	0.35	0.43	0.37	0.30															
115	0.41	0.51	0.45	0.36															
120	0.50	0.60	0.53	0.46															
125	0.59	0.68	0.62	0.56															
130	0.66	0.78	0.70	0.65															
135	0.76	0.85	0.79	0.71															
140	0.83	0.93	0.86	0.80															
145	0.89	1.01	0.94	0.90															
150	0.97	1.06	1.02	0.96															
155	1.06	1.12	1.09	1.06															
160	1.10	1.17	1.14	1.08															
165	1.15	1.20	1.19	1.15															
170	1.20	1.21	1.22	1.16															
175	1.25	1.24	1.25	1.18															
180	1.27	1.25	1.25	1.22															

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:LPB  
 Test Date:2017-11-21

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.292  
 Humidity:21.8%  
 Test Distance:10.500m [K=1.0000]  
 Remarks: 混合