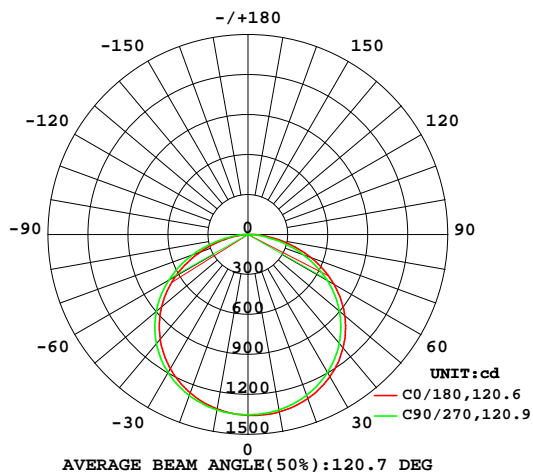


LUMINAIRE PHOTOMETRIC TEST REPORT

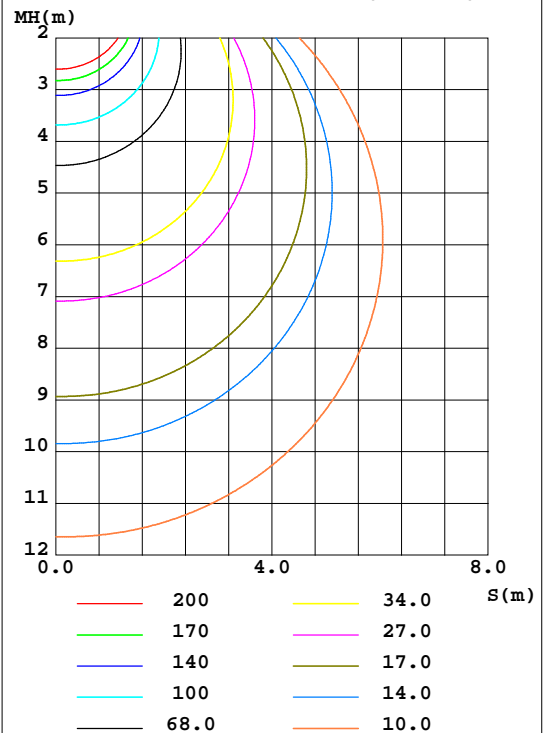
Test:U:24.00V I:1.140A P:27.35W PF:0 Freq:0Hz Lamp Flux:4261.28x1 lm		
NAME: DS82562412NO	TYPE:	WEIGHT:
SPEC.:DS82562412NO-8NWSDAO12WC0100	DIM.: 1000*12*1.5	SERIAL No.:
MFR.: Colors	SUR.:1000*12mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 155.81 lm/W			
MODEL	DS82562412NO	I _{max} (cd)	1358	S/MH(C0/180)	1.28
NOMINAL POWER(W)	34	LOR(%)	100.0	S/MH(C90/270)	1.32
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	4261.3	h UP,DN(C0-180)	0.3,51.3
NOMINAL FLUX(lm)	4261.28	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.3,48.0
LAMPS INSIDE	1	h up(%)	0.7	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	h down(%)	99.3	CIBSE SHR MAX	1.50

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:2019-03-09

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:

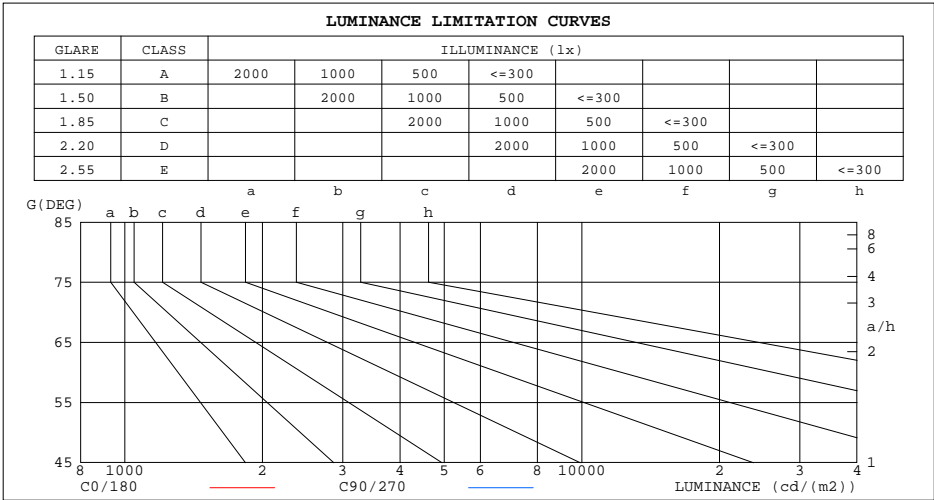
g	C0	C90	C180	C270					g	F zone	F total	%lum,lamp
10	1352	1336	1330	1337					0~ 10	128.6	128.6	3.02,3.02
20	1310	1284	1266	1286					10~ 20	372.2	500.7	11.8,11.8
30	1231	1195	1165	1198					20~ 30	575.1	1076	25.2,25.2
40	1111	1067	1026	1070					30~ 40	711.9	1788	42,42
50	948.8	896.0	846.6	899.2					40~ 50	761.9	2550	59.8,59.8
60	743.8	685.6	628.2	687.0					50~ 60	711.5	3261	76.5,76.5
70	499.2	437.6	377.2	437.6					60~ 70	558.7	3820	89.6,89.6
80	234.8	179.9	128.0	178.2					70~ 80	324.2	4144	97.2,97.2
90	26.93	4.995	3.629	7.132					80~ 90	88.00	4232	99.3,99.3
100	1.936	2.255	2.518	2.340					90~100	3.257	4235	99.4,99.4
110	2.889	3.253	3.532	3.331					100~110	2.903	4238	99.5,99.5
120	3.904	4.337	4.614	4.392					110~120	3.740	4242	99.5,99.5
130	4.962	5.381	5.619	5.421					120~130	4.333	4246	99.6,99.6
140	5.859	6.286	6.421	6.298					130~140	4.477	4251	99.8,99.8
150	6.661	7.105	7.113	7.100					140~150	4.148	4255	99.9,99.9
160	7.310	7.675	7.800	7.690					150~160	3.382	4258	99.9,99.9
170	7.959	8.031	8.216	8.066					160~170	2.221	4261	100,100
180	8.357	8.216	8.367	8.266					170~180	0.7793	4261	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:2019-03-09

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:1.140A P:27.35W PF:0 Freq:0Hz Lamp Flux:4261.28x1 lm		
NAME: DS82562412NO	TYPE:	WEIGHT:
SPEC.:DS82562412NO-8NWSDAO12WC0100	DIM.: 1000*12*1.5	SERIAL No.:
MFR.: Colors	SUR.:1000*12mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	109596	68663
80	112676	86318
75	118108	98750
70	121640	106612
65	123415	111413
60	123969	114272
55	123737	115396
50	123009	116166
45	121998	116266

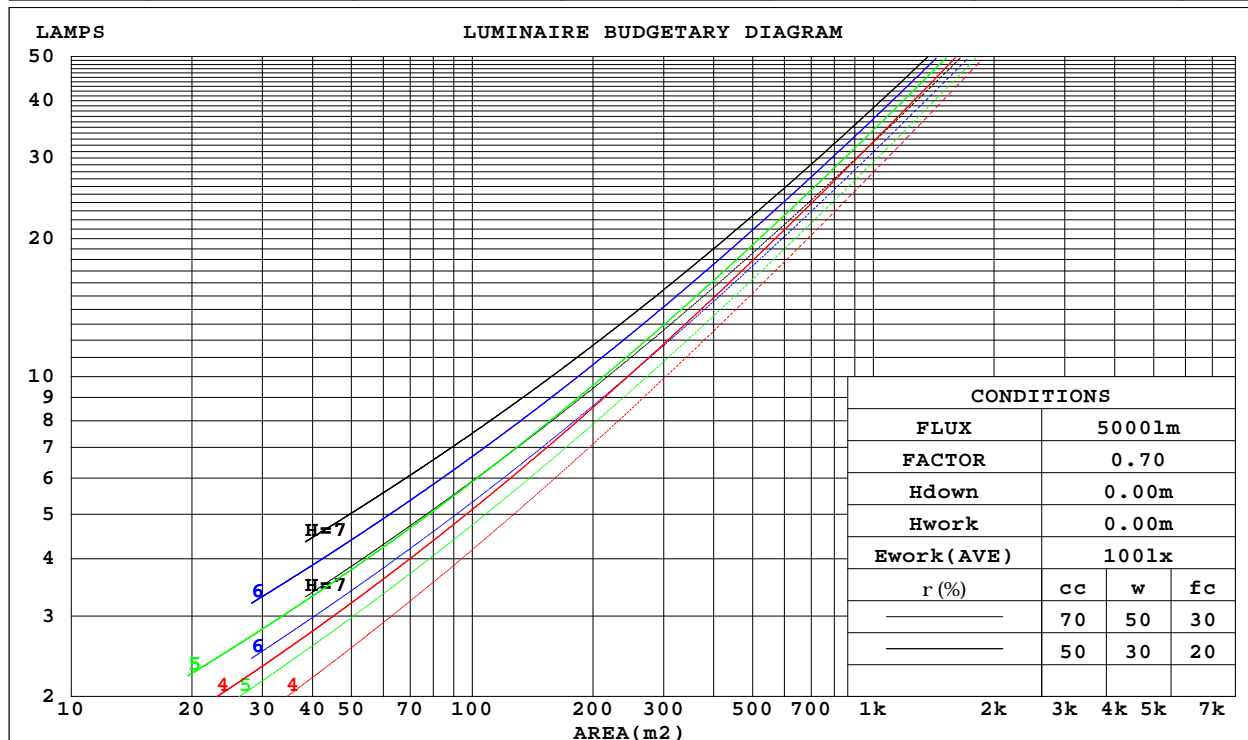
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-03-09

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:1.140A P:27.35W PF:0 Freq:0Hz Lamp Flux:4261.28x1 lm		
NAME: DS82562412NO	TYPE:	WEIGHT:
SPEC.:DS82562412NO-8NWSDAO12WC0100	DIM.: 1000*12*1.5	SERIAL No.:
MFR.: Colors	SUR.:1000*12mm	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			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	1.01	1.01	1.01	.99
1.0	1.03	.99	.95	1.01	.97	.93	.97	.93	.90	.92	.90	.87	.89	.87	.85	.82
2.0	.90	.82	.77	.88	.81	.76	.84	.78	.74	.80	.76	.72	.77	.74	.70	.68
3.0	.78	.70	.63	.77	.69	.63	.73	.67	.61	.71	.65	.60	.68	.63	.59	.57
4.0	.69	.60	.53	.68	.59	.53	.65	.58	.52	.63	.56	.51	.60	.55	.50	.48
5.0	.61	.52	.45	.60	.52	.45	.58	.50	.45	.56	.49	.44	.54	.48	.43	.41
6.0	.55	.46	.39	.54	.46	.39	.52	.45	.39	.51	.44	.38	.49	.43	.38	.36
7.0	.50	.41	.35	.49	.41	.35	.47	.40	.34	.46	.39	.34	.44	.38	.34	.32
8.0	.45	.37	.31	.45	.36	.31	.43	.36	.30	.42	.35	.30	.41	.35	.30	.28
9.0	.42	.33	.28	.41	.33	.28	.40	.32	.27	.39	.32	.27	.38	.31	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.37	.30	.25	.36	.29	.25	.35	.29	.24	.23



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:COLORS
 Test Date:2019-03-09

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:1.140A P:27.35W PF:0 Freq:0Hz Lamp Flux:4261.28x1 lm		
NAME: DS82562412NO	TYPE:	WEIGHT:
SPEC.:DS82562412NO-8NWSDAO12WC0100	DIM.: 1000*12*1.5	SERIAL No.:
MFR.: Colors	SUR.:1000*12mm	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	.319	.181	.057	.311	.178	.056	.298	.171	.055	.285	.164	.053	.273	.158	.051	
2.0	.299	.164	.050	.293	.161	.050	.280	.156	.048	.269	.151	.047	.259	.146	.046	
3.0	.276	.147	.044	.270	.145	.044	.260	.141	.043	.250	.137	.042	.240	.133	.041	
4.0	.254	.132	.039	.249	.130	.039	.240	.127	.038	.231	.124	.037	.222	.121	.037	
5.0	.235	.120	.035	.230	.118	.034	.222	.115	.034	.214	.113	.034	.206	.110	.033	
6.0	.217	.109	.031	.213	.108	.031	.206	.105	.031	.198	.103	.030	.192	.101	.030	
7.0	.202	.100	.028	.198	.099	.028	.191	.097	.028	.185	.095	.028	.179	.093	.027	
8.0	.188	.092	.026	.185	.091	.026	.179	.089	.026	.173	.088	.025	.168	.086	.025	
9.0	.176	.085	.024	.173	.084	.024	.168	.083	.024	.163	.082	.023	.158	.080	.023	
10.0	.166	.079	.022	.163	.079	.022	.158	.077	.022	.153	.076	.022	.149	.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	.196	.196	.196	.167	.167	.167	.114	.114	.114	.066	.066	.066	.021	.021	.021	
1.0	.186	.161	.139	.159	.138	.120	.109	.095	.083	.063	.055	.048	.020	.018	.016	
2.0	.179	.137	.102	.153	.118	.089	.105	.082	.062	.060	.048	.036	.019	.015	.012	
3.0	.171	.120	.079	.147	.103	.068	.101	.072	.048	.058	.042	.028	.019	.014	.009	
4.0	.163	.106	.063	.140	.092	.055	.096	.064	.038	.056	.038	.023	.018	.012	.007	
5.0	.156	.096	.052	.134	.083	.045	.092	.058	.032	.053	.034	.019	.017	.011	.006	
6.0	.149	.088	.044	.128	.076	.038	.088	.053	.027	.051	.031	.016	.017	.010	.005	
7.0	.142	.081	.038	.122	.070	.033	.084	.049	.024	.049	.029	.014	.016	.009	.005	
8.0	.135	.075	.034	.117	.065	.029	.081	.046	.021	.047	.027	.012	.015	.009	.004	
9.0	.129	.070	.030	.111	.061	.026	.077	.043	.019	.045	.025	.011	.015	.008	.004	
10.0	.124	.066	.028	.106	.057	.024	.074	.040	.017	.043	.024	.010	.014	.008	.003	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-03-09

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:1.140A P:27.35W PF:0 Freq:0Hz Lamp Flux:4261.28x1 lm											
NAME: DS82562412NO						TYPE:		WEIGHT:			
SPEC.:DS82562412NO-8NWSDAO12WC0100						DIM.: 1000*12*1.5		SERIAL No.:			
MFR.: Colors						SUR.:1000*12mm		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	24.8	26.4	25.1	26.6	26.8	24.5	26.1	24.8	26.3	26.5	
	3H	26.6	28.0	26.9	28.3	28.5	26.2	27.6	26.5	27.8	28.1
	4H	27.3	28.7	27.7	29.0	29.2	26.8	28.1	27.1	28.4	28.7
	6H	27.9	29.2	28.3	29.5	29.8	27.2	28.5	27.6	28.8	29.1
	8H	28.1	29.4	28.5	29.6	30.0	27.3	28.6	27.7	28.9	29.2
	12H	28.3	29.4	28.6	29.8	30.1	27.4	28.6	27.8	28.9	29.2
4H	2H	25.5	26.8	25.8	27.1	27.4	25.2	26.6	25.6	26.9	27.1
	3H	27.4	28.6	27.8	28.9	29.2	27.0	28.2	27.4	28.5	28.9
	4H	28.3	29.4	28.7	29.7	30.1	27.8	28.9	28.2	29.2	29.6
	6H	29.0	30.0	29.4	30.3	30.7	28.4	29.3	28.8	29.7	30.1
	8H	29.3	30.2	29.7	30.5	30.9	28.5	29.4	29.0	29.8	30.2
	12H	29.5	30.3	29.9	30.7	31.1	28.6	29.5	29.1	29.9	30.3
8H	4H	28.6	29.5	29.0	29.8	30.2	28.1	29.0	28.6	29.4	29.8
	6H	29.4	30.2	29.9	30.6	31.0	28.9	29.6	29.3	30.0	30.5
	8H	29.8	30.4	30.3	30.9	31.4	29.1	29.8	29.6	30.2	30.7
	12H	30.1	30.7	30.6	31.1	31.6	29.3	29.9	29.8	30.3	30.8
12H	4H	28.6	29.4	29.0	29.8	30.2	28.2	29.0	28.6	29.4	29.8
	6H	29.5	30.1	29.9	30.6	31.0	28.9	29.6	29.4	30.0	30.5
	8H	29.9	30.5	30.4	30.9	31.4	29.2	29.8	29.7	30.3	30.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.4					

CIE Pub.117, 4261 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 5.0)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-03-09

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:1.140A P:27.35W PF:0 Freq:0Hz Lamp Flux:4261.28x1 lm		
NAME: DS82562412NO	TYPE:	WEIGHT:
SPEC.:DS82562412NO-8NWSDAO12WC0100	DIM.: 1000*12*1.5	SERIAL No.:
MFR.: Colors	SUR.:1000*12mm	Shielding Angle:

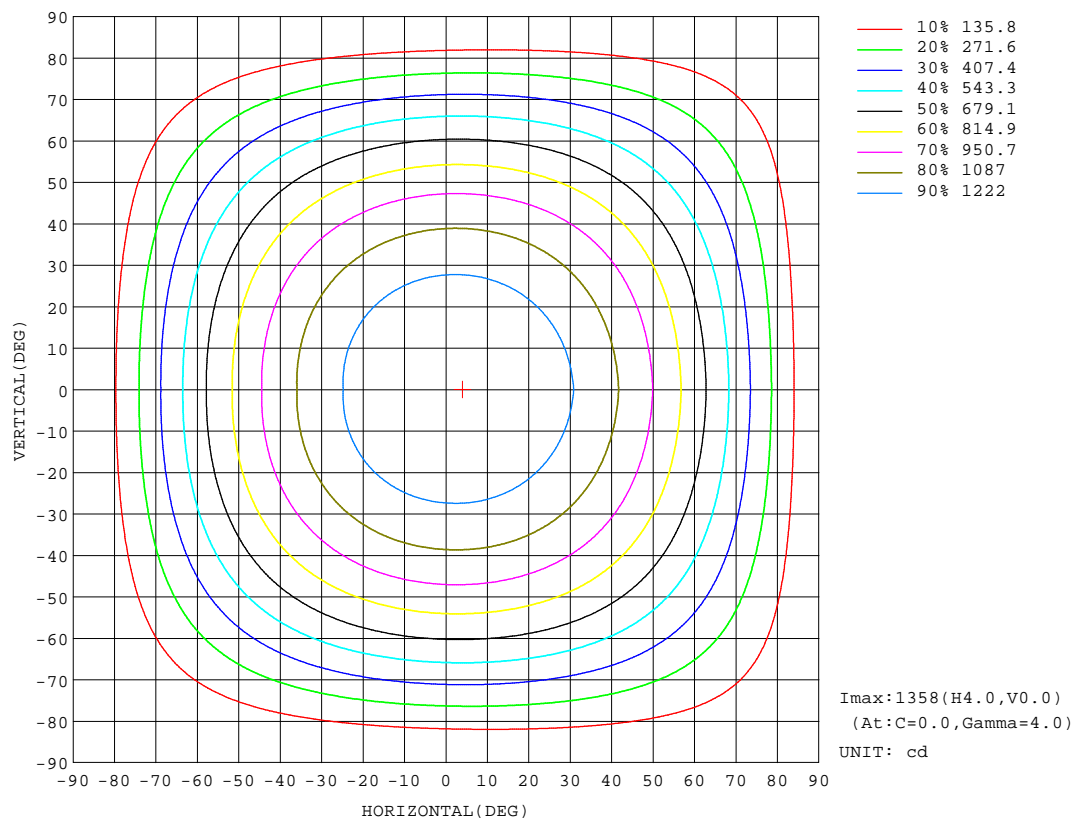
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	55	44	37	54	43	37	30
0.80	66	54	47	65	54	46	63	53	46	39
1.00	75	63	56	73	62	55	71	64	55	47
1.25	82	71	64	80	70	63	77	69	62	55
1.50	87	77	69	85	76	69	82	74	68	60
2.00	94	85	78	92	84	78	88	81	76	68
2.50	98	90	84	96	88	83	92	86	81	72
3.00	101	94	89	99	93	87	95	90	85	76
4.00	106	100	95	103	98	93	99	94	91	81
5.00	108	103	99	106	101	97	101	97	94	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:COLORS
Test Date:2019-03-09

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:1.140A P:27.35W PF:0 Freq:0Hz Lamp Flux:4261.28x1 lm		
NAME: DS82562412NO	TYPE:	WEIGHT:
SPEC.:DS82562412NO-8NWSDAO12WC0100	DIM.: 1000*12*1.5	SERIAL No.:
MFR.: Colors	SUR.:1000*12mm	Shielding Angle:



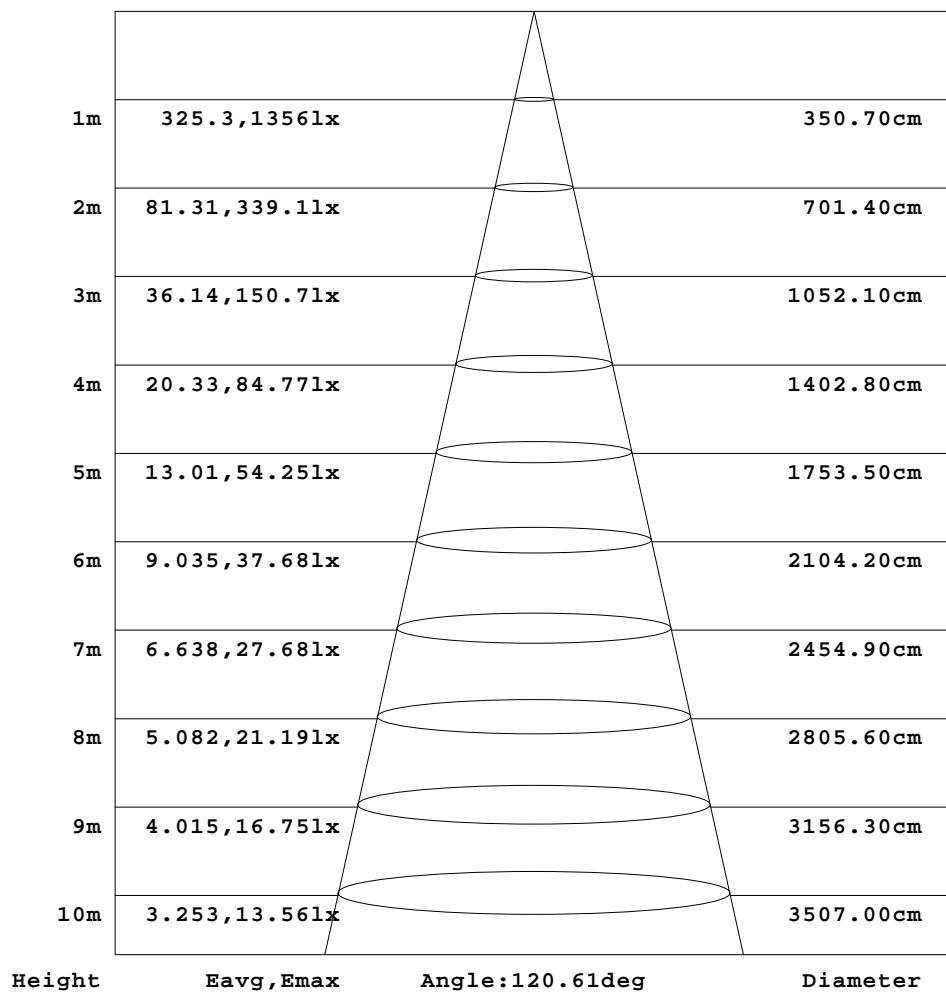
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-03-09

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:1.140A P:27.35W PF:0 Freq:0Hz Lamp Flux:4261.28x1 lm		
NAME: DS82562412NO	TYPE:	WEIGHT:
SPEC.:DS82562412NO-8NWSDAO12WC0100	DIM.: 1000*12*1.5	SERIAL No.:
MFR.: Colors	SUR.:1000*12mm	Shielding Angle:

Flux out:3326 lm



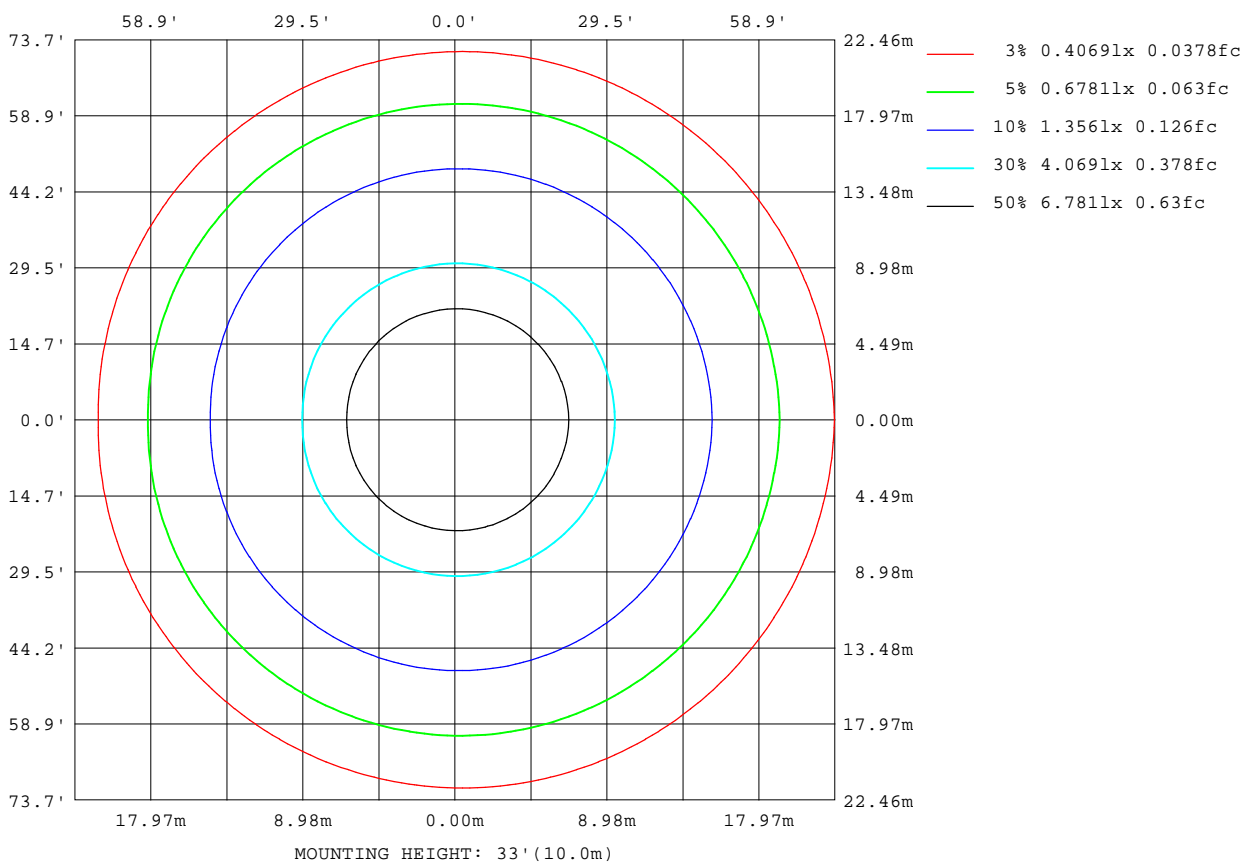
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-03-09

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:1.140A P:27.35W PF:0 Freq:0Hz Lamp Flux:4261.28x1 lm		
NAME: DS82562412NO	TYPE:	WEIGHT:
SPEC.:DS82562412NO-8NWSDAO12WC0100	DIM.: 1000*12*1.5	SERIAL No.:
MFR.: Colors	SUR.:1000*12mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-03-09

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:1.140A P:27.35W PF:0 Freq:0Hz Lamp Flux:4261.28x1 lm		
NAME: DS82562412NO	TYPE:	WEIGHT:
SPEC.:DS82562412NO-8NWSDAO12WC0100	DIM.: 1000*12*1.5	SERIAL No.:
MFR.: Colors	SUR.:1000*12mm	Shielding Angle:

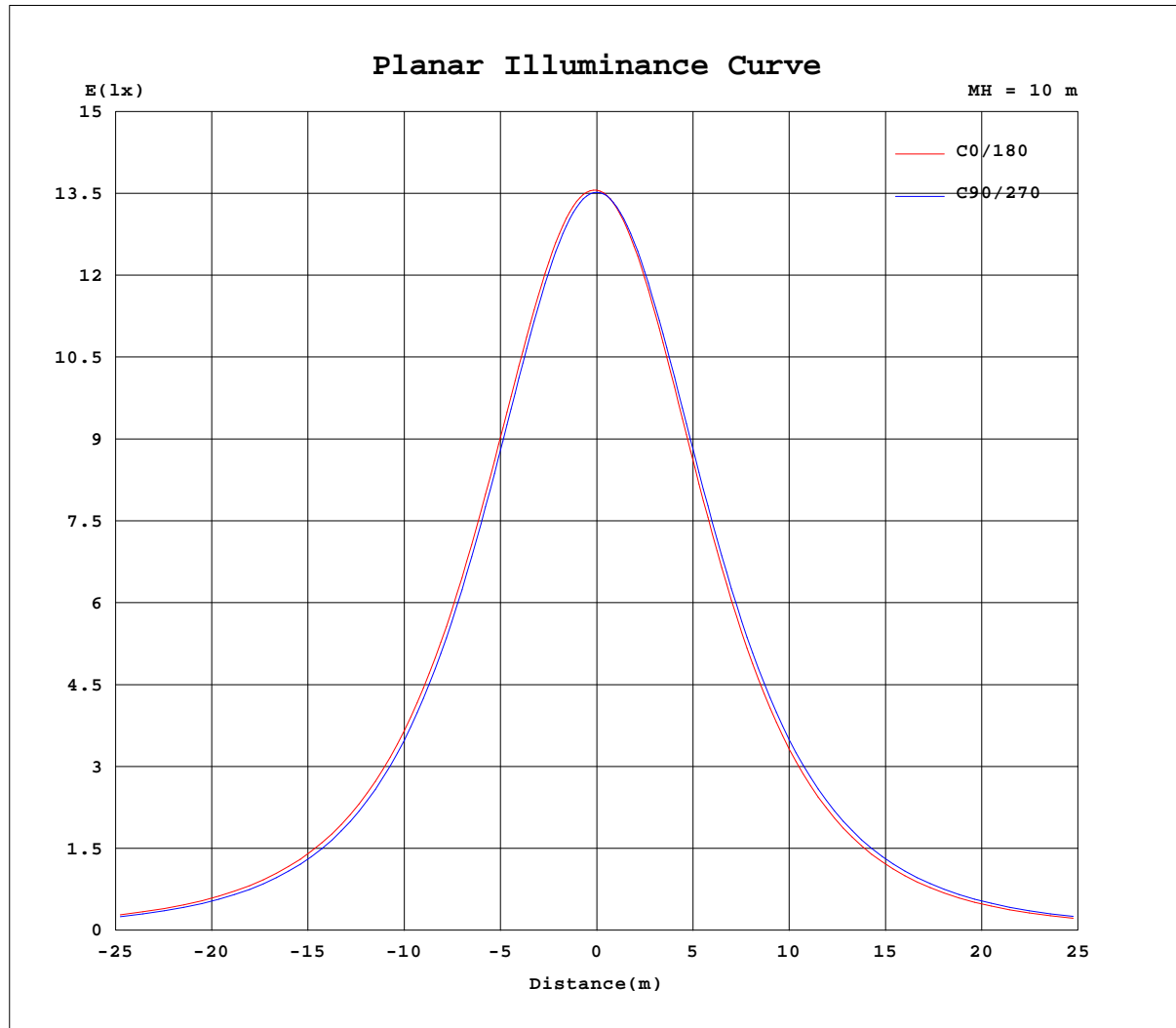
AvgL	cd/m2
L_0~180(65)av	111571
L_0~180(75)av	98960
L_0~180(85)av	72710
L_90~270(65)av	111527
L_90~270(75)av	98549
L_90~270(85)av	68465
L_45(65)av	110803
L_45(75)av	97506
L_45(85)av	67752

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-03-09

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: 2019-03-09

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:1.140A P:27.35W PF:0 Freq:0Hz Lamp Flux:4261.28x1 lm		
NAME: DS82562412NO	TYPE:	WEIGHT:
SPEC.:DS82562412NO-8NWSDAO12WC0100	DIM.: 1000*12*1.5	SERIAL No.:
MFR.: Colors	SUR.:1000*12mm	Shielding Angle:

Table--1

UNIT: cd

C(DEC) g (DEC)	0	90	180	270															
0	1356	1352	1356	1352															
5	1358	1348	1348	1349															
10	1352	1336	1330	1337															
15	1336	1315	1302	1316															
20	1310	1284	1266	1286															
25	1275	1245	1220	1247															
30	1231	1195	1165	1198															
35	1176	1136	1100	1139															
40	1111	1067	1026	1070															
45	1035	987	941	990															
50	949	896	847	899															
55	852	794	742	798															
60	744	686	628	687															
65	626	565	506	566															
70	499	438	377	438															
75	367	307	248	305															
80	235	180	128	178															
85	115	71.8	37.5	71.4															
90	26.9	4.99	3.63	7.13															
95	1.96	1.80	2.07	1.89															
100	1.94	2.25	2.52	2.34															
105	2.39	2.73	3.02	2.84															
110	2.89	3.25	3.53	3.33															
115	3.39	3.78	4.06	3.85															
120	3.90	4.34	4.61	4.39															
125	4.45	4.88	5.13	4.92															
130	4.96	5.38	5.62	5.42															
135	5.44	5.85	6.04	5.87															
140	5.86	6.29	6.42	6.30															
145	6.28	6.73	6.77	6.74															
150	6.66	7.10	7.11	7.10															
155	7.01	7.42	7.48	7.42															
160	7.31	7.67	7.80	7.69															
165	7.65	7.88	8.05	7.89															
170	7.96	8.03	8.22	8.07															
175	8.21	8.17	8.33	8.18															
180	8.36	8.22	8.37	8.27															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:COLORS
Test Date:2019-03-09

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: