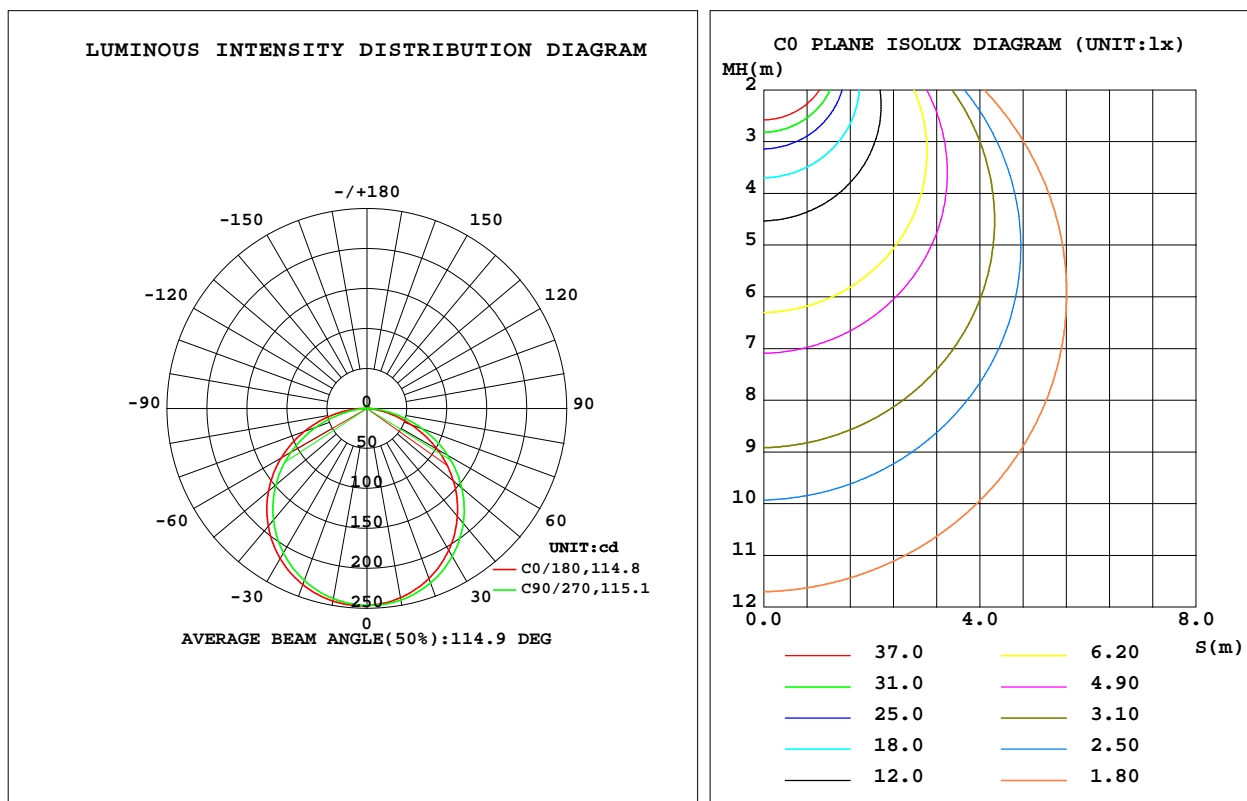


## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.3111A P:7.466W PF:1.000 Freq:0Hz Lamp Flux:736.57lx1 lm		
NAME: D62802408NO	TYPE:	WEIGHT:
SPEC.:D62802408NO-9SWNSA012WC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 98.66 lm/W			
MODEL	D62802408NO	I <sub>max</sub> (cd)	246.7	S/MH(C0/180)	1.24
NOMINAL POWER(W)	7.5	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	736.57	h UP,DN(C0-180)	0.9,48.9
NOMINAL FLUX(lm)	736.571	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.8,49.4
LAMPS INSIDE	1	h up(%)	1.7	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	h down(%)	98.3	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2021-01-08

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

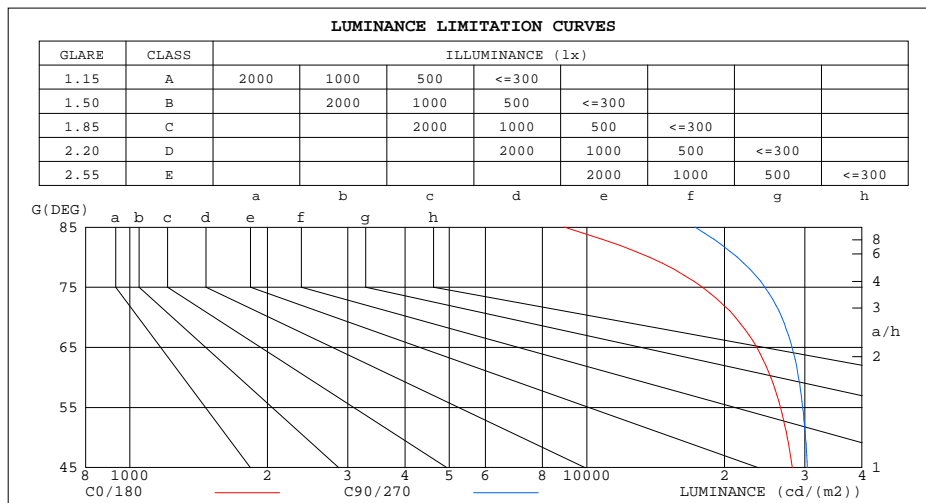
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	240.4	241.8	243.2	244.8	244.5	243.4	241.5	240.0	0- 10	23.33	23.33	3.17,3.17
20	226.3	229.2	232.3	235.2	234.5	232.3	229.0	225.9	10- 20	67.05	90.38	12.3,12.3
30	204.7	208.9	213.5	217.8	216.9	213.7	208.9	204.4	20- 30	102.2	192.6	26.1,26.1
40	176.0	181.4	187.5	193.2	192.1	188.2	182.0	176.1	30- 40	124.3	316.9	43,43
50	141.2	147.4	154.8	162.0	160.9	156.3	148.8	141.5	40- 50	130.2	447.1	60.7,60.7
60	101.1	107.7	116.2	125.0	124.2	119.0	110.1	101.8	50- 60	118.8	565.9	76.8,76.8
70	57.85	64.25	73.08	83.17	82.90	77.39	67.50	58.80	60- 70	91.14	657.0	89.2,89.2
80	19.03	23.28	29.66	39.82	40.49	35.23	25.59	19.21	70- 80	52.01	709.1	96.3,96.3
90	1.544	2.434	1.381	6.568	7.533	5.329	0.4524	0.9038	80- 90	15.05	724.1	98.3,98.3
100	0.9820	0.9695	0.7815	0.7957	0.8660	0.4609	0.5966	0.7067	90-100	1.644	725.7	98.5,98.5
110	1.547	1.477	1.161	1.131	0.9968	0.9278	1.210	1.228	100-110	1.005	726.7	98.7,98.7
120	2.149	2.072	1.823	1.678	1.584	1.467	1.664	1.763	110-120	1.485	728.2	98.9,98.9
130	2.691	2.578	2.351	2.158	2.131	1.950	2.051	2.215	120-130	1.815	730.1	99.1,99.1
140	3.099	2.912	2.758	2.626	2.618	2.510	2.365	2.458	130-140	1.912	732.0	99.4,99.4
150	3.386	3.100	2.986	3.073	2.926	2.992	2.705	2.672	140-150	1.767	733.7	99.6,99.6
160	3.673	3.280	3.420	3.514	3.306	3.420	3.353	2.977	150-160	1.460	735.2	99.8,99.8
170	3.861	3.715	3.920	3.894	3.420	3.840	3.915	3.647	160-170	1.009	736.2	99.9,99.9
180	3.741	4.262	4.375	4.382	3.741	4.255	4.375	4.355	170-180	0.3725	736.6	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:JYH  
 Test Date:2021-01-08

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.950m [K=1.0000]  
 Remarks:

### LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.3111A P:7.466W PF:1.000 Freq:0Hz Lamp Flux:736.57lx1 lm		
NAME: D62802408NO	TYPE:	WEIGHT:
SPEC.:D62802408NO-9SWWNSA012WC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	8921	17259
80	13700	21352
75	17900	24537
70	21142	26710
65	23534	28131
60	25265	29060
55	26529	29681
50	27460	30112
45	28181	30398

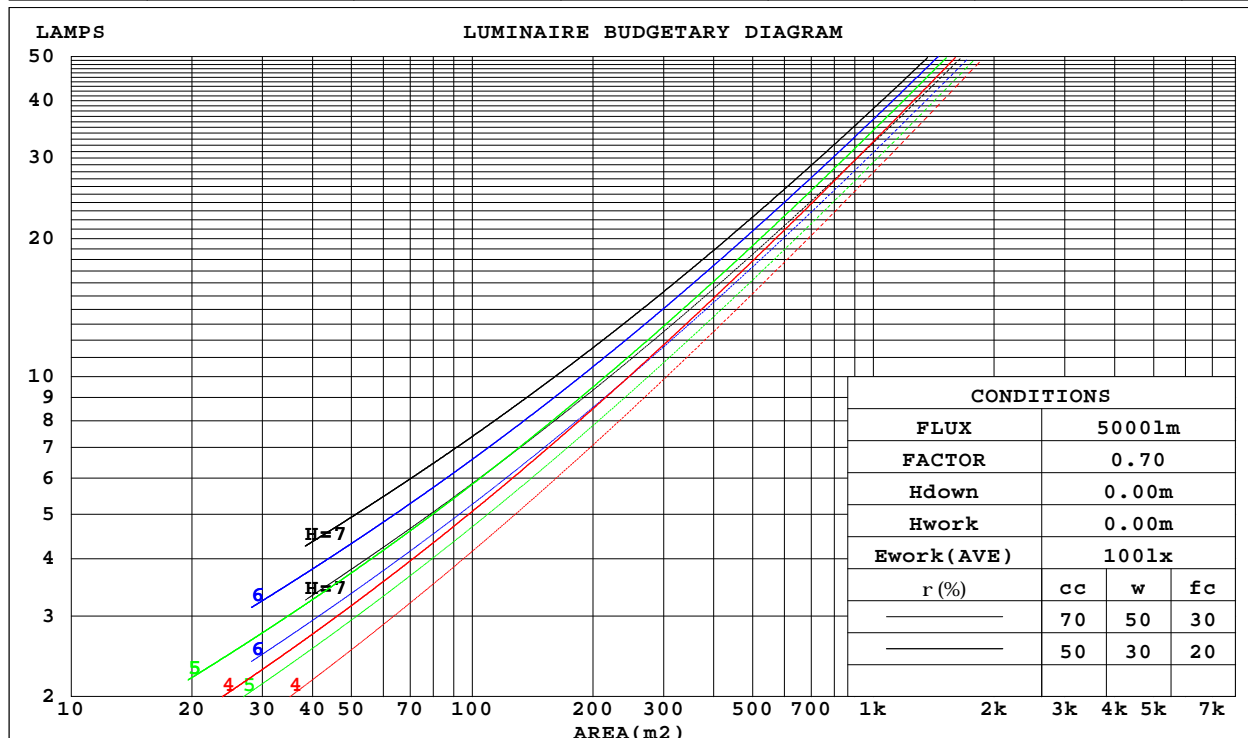
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:JYH  
 Test Date:2021-01-08

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.950m [K=1.0000]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.3111A P:7.466W PF:1.000 Freq:0Hz Lamp Flux:736.57lx1 lm		
NAME: D62802408NO	TYPE:	WEIGHT:
SPEC.:D62802408NO-9SWWNSA012WC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:

r <sub>cc</sub>	80%			70%			50%			30%			10%			0
r <sub>w</sub>	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: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2021-01-08

g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:

WEC AND CCEC

Test:U:24.00V I:0.3111A P:7.466W PF:1.000 Freq:0Hz Lamp Flux:736.571x1 lm		
NAME: D62802408NO	TYPE:	WEIGHT:
SPEC.:D62802408NO-9SWWNSA012WC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	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	.313	.178	.056	.305	.174	.055	.291	.167	.053	.278	.160	.051	.266	.154	.050	
2.0	.294	.161	.049	.287	.158	.049	.274	.153	.047	.263	.147	.046	.252	.143	.045	
3.0	.272	.145	.043	.266	.142	.043	.254	.138	.042	.244	.134	.041	.234	.130	.040	
4.0	.250	.130	.038	.245	.128	.038	.235	.125	.037	.226	.121	.037	.217	.118	.036	
5.0	.231	.118	.034	.227	.116	.034	.218	.113	.033	.209	.111	.033	.202	.108	.032	
6.0	.214	.107	.031	.210	.106	.031	.202	.104	.030	.195	.101	.030	.188	.099	.029	
7.0	.199	.099	.028	.196	.097	.028	.189	.095	.027	.182	.093	.027	.176	.091	.027	
8.0	.186	.091	.026	.183	.090	.025	.176	.088	.025	.170	.086	.025	.165	.085	.025	
9.0	.174	.084	.024	.171	.084	.023	.166	.082	.023	.160	.080	.023	.155	.079	.023	
10.0	.164	.079	.022	.161	.078	.022	.156	.076	.022	.151	.075	.021	.146	.074	.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	.203	.203	.203	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.194	.169	.147	.166	.145	.127	.113	.100	.088	.065	.058	.051	.021	.019	.016	
2.0	.186	.145	.111	.159	.125	.096	.109	.086	.067	.063	.050	.039	.020	.016	.013	
3.0	.178	.127	.087	.153	.110	.076	.105	.076	.053	.060	.045	.031	.019	.014	.010	
4.0	.170	.114	.071	.146	.099	.062	.101	.069	.044	.058	.040	.026	.019	.013	.008	
5.0	.163	.104	.060	.140	.090	.052	.096	.063	.037	.056	.037	.022	.018	.012	.007	
6.0	.156	.096	.052	.134	.083	.046	.092	.058	.032	.054	.034	.019	.017	.011	.006	
7.0	.149	.089	.046	.128	.077	.040	.089	.054	.029	.051	.032	.017	.017	.010	.006	
8.0	.143	.083	.042	.123	.072	.037	.085	.051	.026	.049	.030	.015	.016	.010	.005	
9.0	.136	.078	.039	.118	.068	.034	.081	.048	.024	.047	.028	.014	.015	.009	.005	
10.0	.131	.074	.036	.113	.064	.031	.078	.045	.022	.046	.027	.013	.015	.009	.004	

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2021-01-08

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.00V I:0.3111A P:7.466W PF:1.000 Freq:0Hz Lamp Flux:736.571x1 lm											
NAME: D62802408NO						TYPE:			WEIGHT:		
SPEC.:D62802408NO-9SWWNSA012WC0100						DIM.: 1000*8*1.5mm			SERIAL No.:		
MFR.: COLORS						SUR.:1000*8mm			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	25.1	26.6	25.4	26.8	27.1	25.6	27.1	25.9	27.3	27.6	
	3H	26.4	27.8	26.7	28.1	28.3	27.1	28.5	27.4	28.8	29.1
	4H	26.8	28.2	27.2	28.4	28.7	27.7	29.1	28.1	29.3	29.6
	6H	27.1	28.3	27.4	28.6	28.9	28.1	29.4	28.5	29.7	30.0
	8H	27.1	28.3	27.5	28.6	29.0	28.3	29.5	28.6	29.8	30.1
	12H	27.1	28.3	27.5	28.6	28.9	28.3	29.5	28.7	29.8	30.1
4H	2H	25.7	27.0	26.1	27.3	27.6	26.1	27.4	26.4	27.7	28.0
	3H	27.2	28.4	27.6	28.7	29.0	27.8	29.0	28.2	29.3	29.6
	4H	27.8	28.8	28.2	29.2	29.5	28.5	29.6	28.9	29.9	30.3
	6H	28.1	29.0	28.5	29.4	29.8	29.0	30.0	29.5	30.4	30.8
	8H	28.2	29.0	28.6	29.4	29.9	29.2	30.1	29.7	30.5	30.9
	12H	28.2	29.0	28.6	29.4	29.8	29.3	30.1	29.8	30.5	31.0
8H	4H	28.0	28.9	28.4	29.3	29.7	28.7	29.6	29.1	30.0	30.4
	6H	28.4	29.2	28.9	29.6	30.1	29.3	30.1	29.8	30.5	31.0
	8H	28.6	29.2	29.1	29.7	30.2	29.6	30.2	30.1	30.7	31.2
	12H	28.7	29.2	29.2	29.7	30.2	29.7	30.3	30.2	30.8	31.3
12H	4H	28.0	28.8	28.5	29.2	29.7	28.7	29.5	29.1	29.9	30.3
	6H	28.5	29.1	29.0	29.6	30.1	29.4	30.0	29.8	30.5	30.9
	8H	28.7	29.2	29.2	29.7	30.2	29.6	30.2	30.1	30.7	31.2
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117, 736.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.1)

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2021-01-08

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.3111A P:7.466W PF:1.000 Freq:0Hz Lamp Flux:736.571x1 lm		
NAME: D62802408NO	TYPE:	WEIGHT:
SPEC.:D62802408NO-9SWWNSA012WC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:

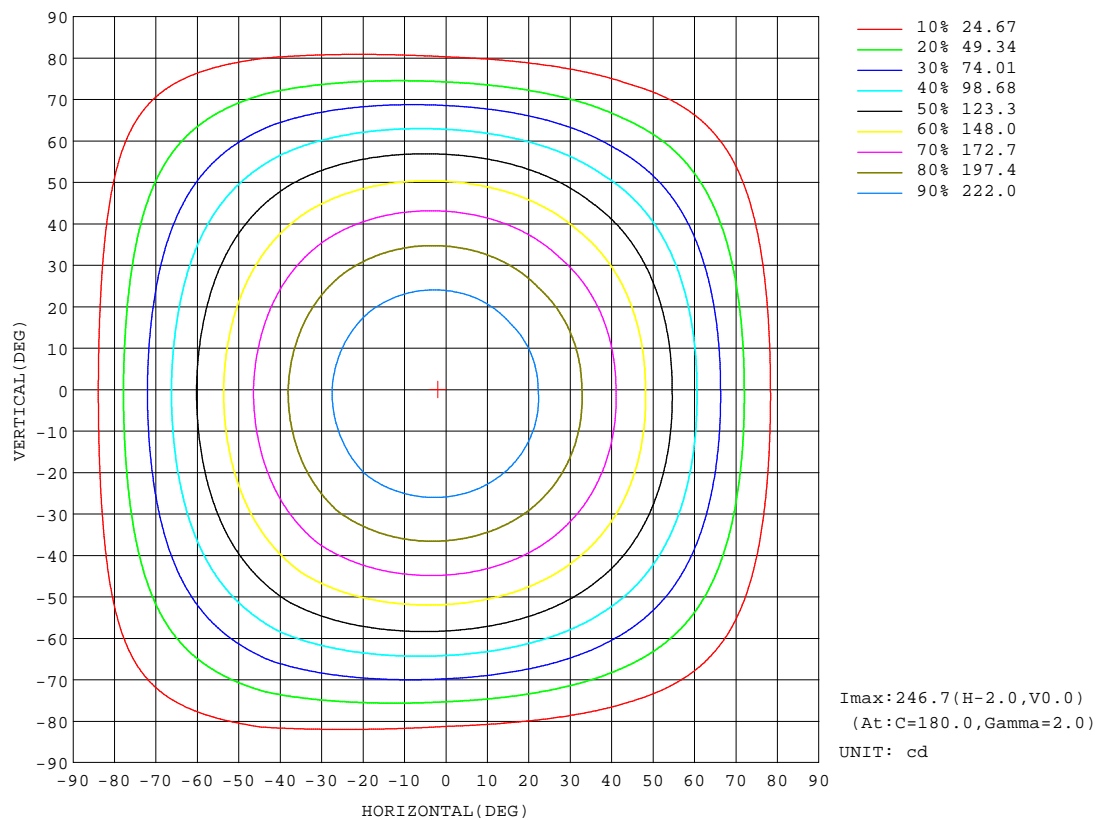
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	54	44	37	31
0.80	67	55	47	65	54	47	64	53	47	40
1.00	75	64	56	74	63	56	71	64	55	48
1.25	82	71	64	81	71	64	78	69	63	55
1.50	87	77	70	85	76	69	82	74	68	60
2.00	94	85	79	92	84	78	88	82	76	68
2.50	98	90	84	96	89	83	92	86	81	72
3.00	101	94	89	99	93	88	95	90	85	76
4.00	106	100	95	103	98	93	98	94	91	81
5.00	108	103	99	105	101	97	101	97	94	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2021-01-08

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:24.00V I:0.3111A P:7.466W PF:1.000 Freq:0Hz Lamp Flux:736.57lx1 lm		
NAME: D62802408NO	TYPE:	WEIGHT:
SPEC.:D62802408NO-9SWNSA012WC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2021-01-08

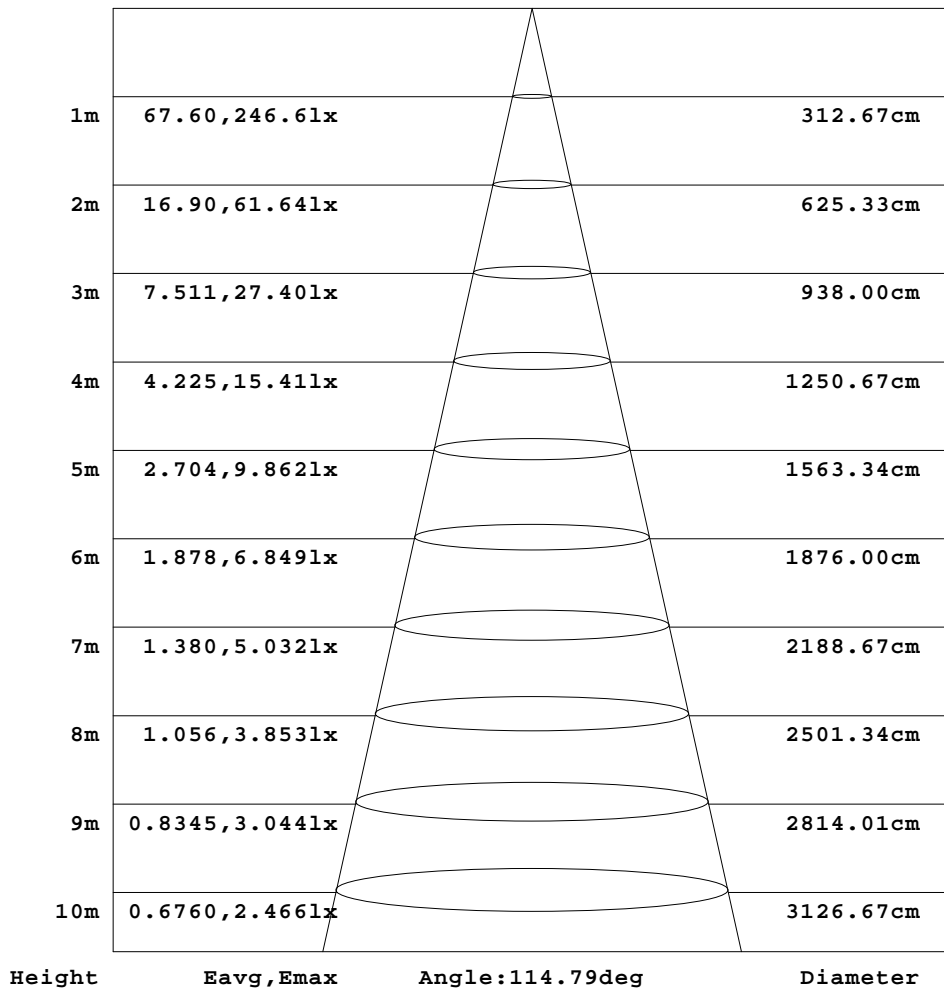
Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:



### AAI Figure

Test:U:24.00V I:0.3111A P:7.466W PF:1.000 Freq:0Hz Lamp Flux:736.571x1 lm		
NAME: D62802408NO	TYPE:	WEIGHT:
SPEC.:D62802408NO-9SWNSA012WC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:

Flux out:543.9 lm



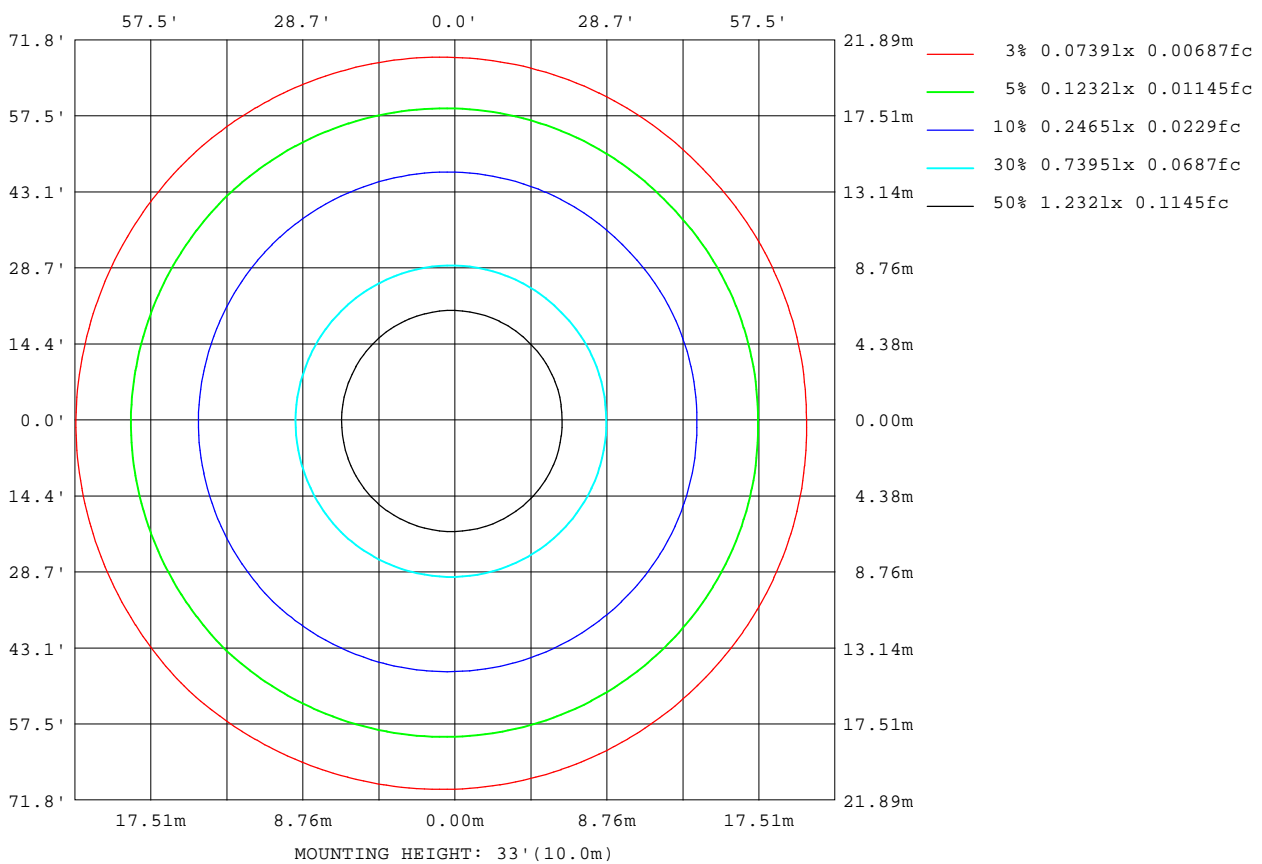
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2021-01-08

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:

### ISOLUX DIAGRAM

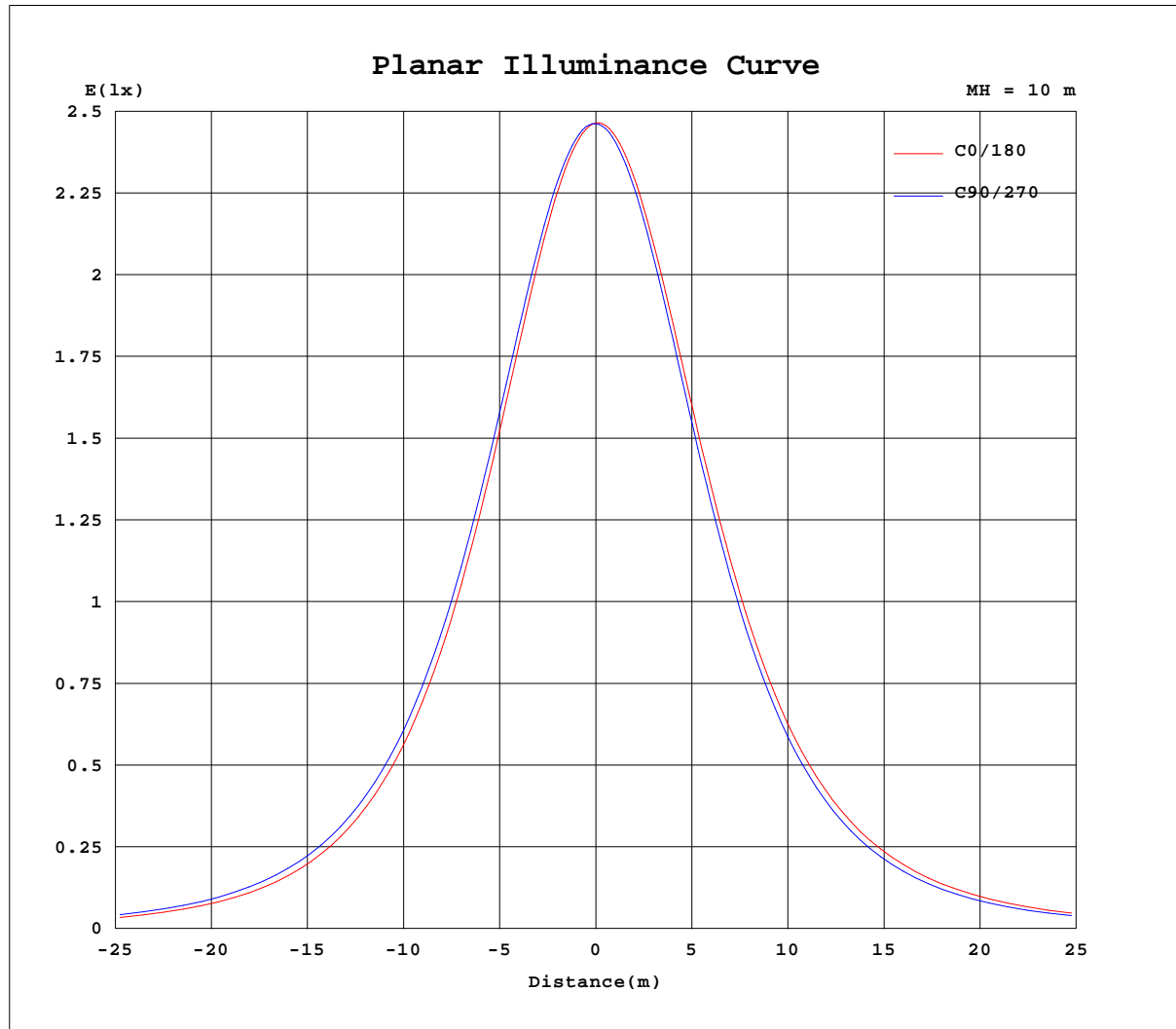
Test:U:24.00V I:0.3111A P:7.466W PF:1.000 Freq:0Hz Lamp Flux:736.57lx 1m		
NAME: D62802408NO	TYPE:	WEIGHT:
SPEC.:D62802408NO-9SWWNSA012WC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2021-01-08

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JYH  
Test Date: 2021-01-08

deg Range: 0 - 180DEG  
deg Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 10.950m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.3111A P:7.466W PF:1.000 Freq:0Hz Lamp Flux:736.571x1 lm		
NAME: D62802408NO	TYPE:	WEIGHT:
SPEC.:D62802408NO-9SWWNSA012WC0100	DIM.: 1000*8*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*8mm	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	45	90	135	180	225	270	315										
0	246	247	246	246	246	247	246	246										
5	244	245	246	247	246	246	245	244										
10	240	242	243	245	245	243	242	240										
15	234	236	239	241	240	239	236	234										
20	226	229	232	235	235	232	229	226										
25	216	220	224	227	227	224	220	216										
30	205	209	214	218	217	214	209	204										
35	191	196	201	206	205	202	196	191										
40	176	181	188	193	192	188	182	176										
45	159	165	172	178	177	173	166	160										
50	141	147	155	162	161	156	149	141										
55	122	128	136	144	143	138	130	122										
60	101	108	116	125	124	119	110	102										
65	79.6	86.3	95.1	105	104	98.6	89.1	80.4										
70	57.8	64.2	73.1	83.2	82.9	77.4	67.5	58.8										
75	37.1	42.6	50.8	61.2	61.5	55.9	45.9	37.7										
80	19.0	23.3	29.7	39.8	40.5	35.2	25.6	19.2										
85	6.22	9.00	12.0	20.9	20.7	17.3	9.16	5.87										
90	1.54	2.43	1.38	6.57	7.53	5.33	0.45	0.90										
95	1.23	1.14	0.81	2.14	2.73	1.35	0.31	0.68										
100	0.98	0.97	0.78	0.80	0.87	0.46	0.60	0.71										
105	1.25	1.20	0.88	0.93	0.71	0.67	0.92	0.93										
110	1.55	1.48	1.16	1.13	1.00	0.93	1.21	1.23										
115	1.85	1.79	1.52	1.41	1.31	1.18	1.46	1.48										
120	2.15	2.07	1.82	1.68	1.58	1.47	1.66	1.76										
125	2.44	2.35	2.11	1.93	1.86	1.70	1.87	2.02										
130	2.69	2.58	2.35	2.16	2.13	1.95	2.05	2.22										
135	2.92	2.77	2.57	2.40	2.40	2.23	2.21	2.34										
140	3.10	2.91	2.76	2.63	2.62	2.51	2.36	2.46										
145	3.23	3.01	2.89	2.85	2.79	2.76	2.49	2.54										
150	3.39	3.10	2.99	3.07	2.93	2.99	2.71	2.67										
155	3.51	3.18	3.16	3.31	3.13	3.21	3.03	2.74										
160	3.67	3.28	3.42	3.51	3.31	3.42	3.35	2.98										
165	3.84	3.45	3.73	3.69	3.48	3.62	3.65	3.29										
170	3.86	3.71	3.92	3.89	3.42	3.84	3.91	3.65										
175	3.69	4.03	4.15	4.11	3.45	4.06	4.18	4.03										
180	3.74	4.26	4.38	4.38	3.74	4.25	4.38	4.36										

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2021-01-08

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks: