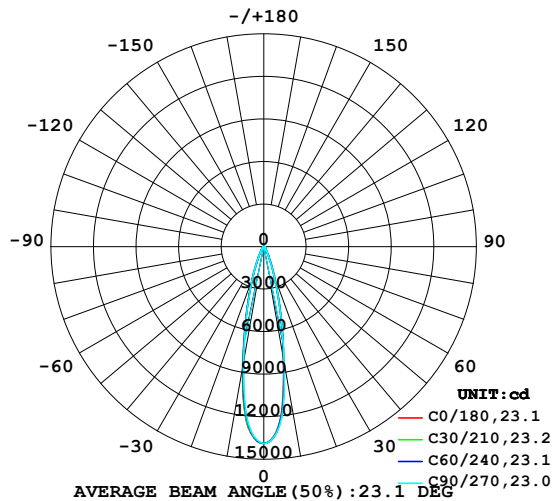


## LUMINAIRE PHOTOMETRIC TEST REPORT

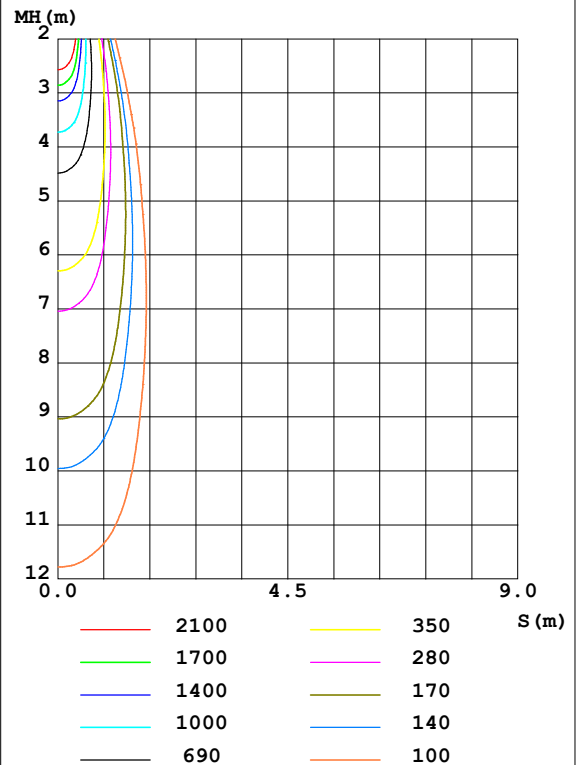
Test:U:225.0V I:0.1750A P:38.00W PF:0.9610 Freq:50.00Hz Lamp Flux:3156.12x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		SUR.:75		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 83.06 lm/W
MODEL	ALT85-38G30-24	I <sub>max</sub> (cd)	13879	S/MH(C0/180)	0.39	
NOMINAL POWER(W)	38	LOR(%)	100.0	S/MH(C90/270)	0.39	
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	3156.1	□ UP,DN(C0-180)	0.0,51.1	
NOMINAL FLUX(lm)	3156.12	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,48.9	
LAMPS INSIDE	1	□ up(%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	225	□ down(%)	100.0	CIBSE SHR MAX	1.00	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:AE  
 Test Date:2020-03-06

□ Range: 0 - 90DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.240m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

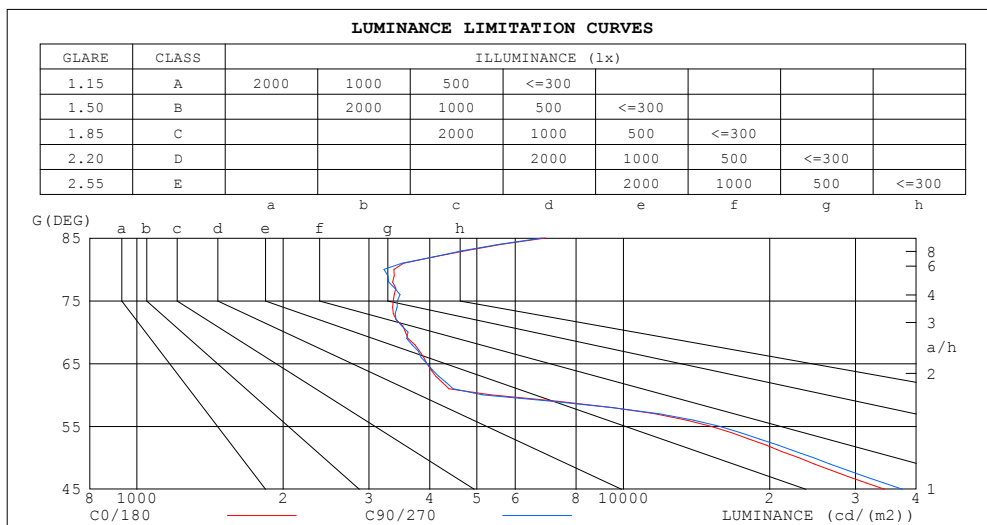
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	859.4	856.4	820.4	808.6	803.8	799.3	828.8	843.3	0- 10	1062	1062	33.7,33.7
20	227.8	240.0	228.9	226.5	217.8	204.2	207.4	213.2	10- 20	1248	2310	73.2,73.2
30	55.39	59.17	57.54	57.21	53.43	50.60	50.39	51.48	20- 30	518.2	2828	89.6,89.6
40	17.62	18.89	18.91	18.45	16.95	16.19	15.97	16.47	30- 40	196.0	3024	95.8,95.8
50	6.506	6.959	6.977	6.627	6.105	6.059	6.087	6.186	40- 50	84.56	3109	98.5,98.5
60	1.181	1.238	1.135	1.050	1.029	1.091	1.231	1.227	50- 60	33.08	3142	99.6,99.6
70	0.5389	0.5346	0.5453	0.4970	0.4967	0.5407	0.5732	0.5571	60- 70	7.515	3150	99.8,99.8
80	0.2590	0.2500	0.2472	0.2399	0.2246	0.2292	0.2370	0.2468	70- 80	4.029	3154	99.9,99.9
90	0.3002	0.3005	0.3001	0.3040	0.1887	0.1909	0.1902	0.1917	80- 90	2.584	3156	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:AE  
 Test Date:2020-03-06

□ Range: 0 - 90DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.240m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:225.0V I:0.1750A P:38.00W PF:0.9610 Freq:50.00Hz Lamp Flux:3156.12x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6920	6819
80	3376	3223
75	3367	3432
70	3566	3610
65	3950	3948
60	5345	5141
55	15117	15741
50	22910	24575
45	34446	37488

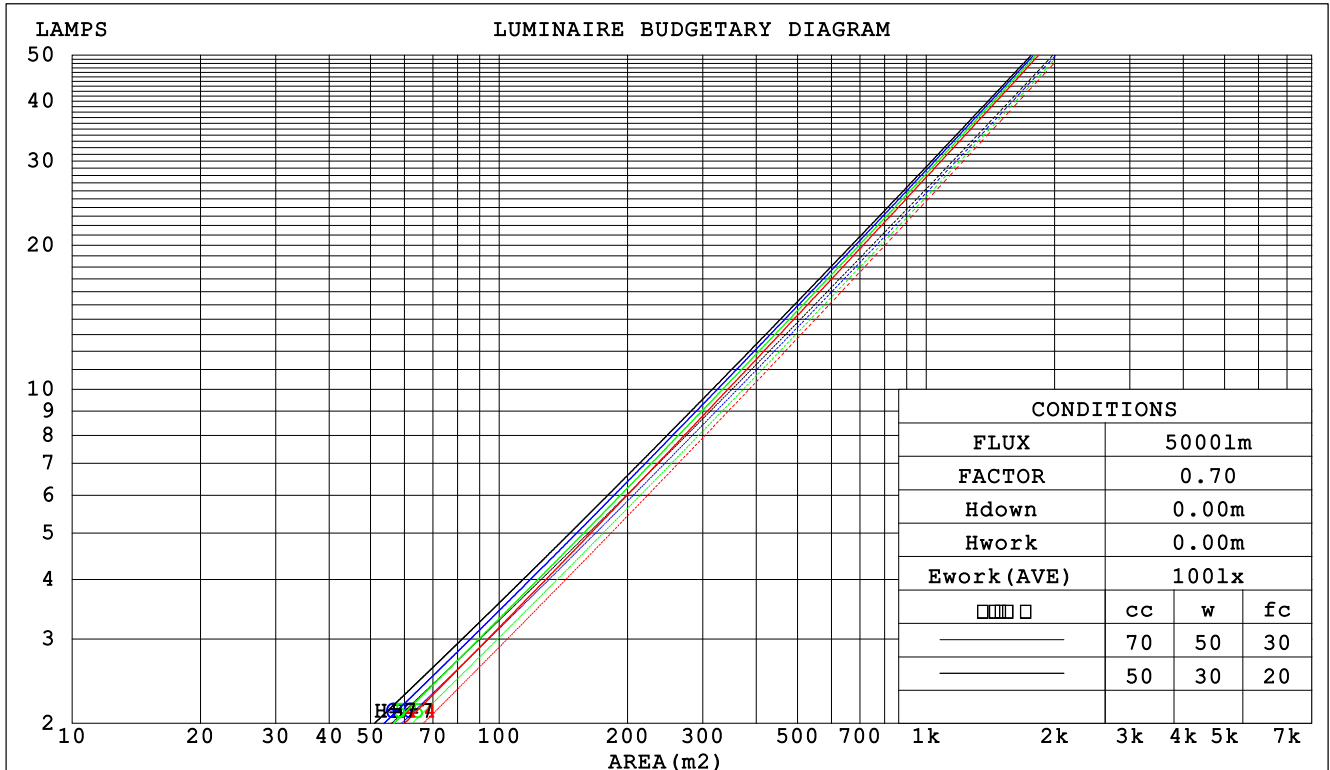
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-03-06

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:225.0V I:0.1750A P:38.00W PF:0.9610 Freq:50.00Hz Lamp Flux:3156.12x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:AE  
 Test Date:2020-03-06

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.240m [K=1.0000]  
 Remarks:

### WEC AND CCEC

Test:U:225.0V I:0.1750A P:38.00W PF:0.9610 Freq:50.00Hz Lamp Flux:3156.12x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		SUR.:75		Shielding Angle:	

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0														
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
<input type="checkbox"/> fc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Wall Exitance Coefficients(WEC)														
0.0																														
1.0	.145	.082	.026	.138	.079	.025	.126	.072	.023	.115	.066	.021	.104	.060	.019															
2.0	.135	.074	.023	.130	.071	.022	.119	.066	.021	.110	.062	.019	.101	.057	.018															
3.0	.127	.067	.020	.122	.065	.020	.113	.061	.019	.105	.058	.018	.098	.054	.017															
4.0	.119	.062	.018	.115	.060	.018	.108	.057	.017	.101	.054	.016	.095	.051	.016															
5.0	.112	.057	.017	.109	.056	.016	.103	.053	.016	.097	.051	.015	.091	.049	.015															
6.0	.106	.053	.015	.103	.052	.015	.098	.050	.015	.093	.048	.014	.088	.046	.014															
7.0	.101	.050	.014	.098	.049	.014	.094	.047	.014	.089	.046	.013	.085	.044	.013															
8.0	.096	.047	.013	.094	.046	.013	.090	.045	.013	.086	.043	.013	.082	.042	.012															
9.0	.092	.044	.012	.090	.044	.012	.086	.043	.012	.083	.041	.012	.079	.040	.012															
10.0	.088	.042	.012	.086	.042	.012	.083	.041	.011	.080	.040	.011	.077	.039	.011															

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0	
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
<input type="checkbox"/> fc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.169	.158	.147	.145	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016		
2.0	.151	.133	.117	.130	.114	.101	.089	.079	.071	.051	.046	.041	.016	.015	.013		
3.0	.137	.113	.095	.117	.098	.082	.081	.068	.058	.047	.040	.034	.015	.013	.011		
4.0	.125	.098	.078	.107	.085	.068	.074	.059	.048	.043	.035	.028	.014	.011	.009		
5.0	.115	.086	.065	.098	.074	.056	.068	.052	.040	.039	.030	.024	.013	.010	.008		
6.0	.106	.076	.055	.091	.066	.048	.063	.046	.034	.036	.027	.020	.012	.009	.007		
7.0	.098	.068	.047	.085	.059	.041	.058	.041	.029	.034	.024	.017	.011	.008	.006		
8.0	.092	.061	.040	.079	.053	.035	.055	.037	.025	.032	.022	.015	.010	.007	.005		
9.0	.086	.056	.035	.074	.048	.030	.052	.034	.022	.030	.020	.013	.010	.007	.004		
10.0	.081	.051	.031	.070	.044	.027	.049	.031	.019	.028	.018	.011	.009	.006	.004		

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-03-06

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

Test:U:225.0V I:0.1750A P:38.00W PF:0.9610 Freq:50.00Hz Lamp Flux:3156.12x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.:			SERIAL No.:				
MFR.:			SUR.:75			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	12.7	13.4	12.9	13.5	13.7	12.9	13.6	13.1	13.7	13.9
3H	12.6	13.2	12.8	13.4	13.6	12.8	13.4	13.0	13.6	13.8
4H	12.5	13.2	12.8	13.4	13.6	12.7	13.3	13.0	13.5	13.8
6H	12.5	13.1	12.8	13.3	13.5	12.7	13.2	12.9	13.5	13.7
8H	12.5	13.0	12.8	13.3	13.5	12.6	13.2	12.9	13.4	13.7
12H	12.5	13.0	12.8	13.3	13.5	12.6	13.2	12.9	13.4	13.7
4H 2H	12.5	13.2	12.8	13.4	13.6	12.7	13.3	13.0	13.5	13.7
3H	12.4	13.0	12.7	13.2	13.5	12.6	13.1	12.9	13.4	13.7
4H	12.4	12.9	12.7	13.2	13.5	12.5	13.0	12.9	13.3	13.6
6H	12.3	12.8	12.7	13.1	13.5	12.5	12.9	12.9	13.3	13.6
8H	12.3	12.7	12.7	13.1	13.5	12.5	12.9	12.9	13.2	13.6
12H	12.4	12.7	12.8	13.1	13.5	12.5	12.9	12.9	13.2	13.6
8H 4H	12.3	12.7	12.7	13.0	13.4	12.4	12.8	12.8	13.2	13.5
6H	12.2	12.6	12.7	13.0	13.4	12.4	12.7	12.8	13.1	13.5
8H	12.2	12.5	12.7	13.0	13.4	12.4	12.7	12.8	13.1	13.5
12H	12.3	12.6	12.8	13.0	13.5	12.4	12.7	12.9	13.1	13.6
12H 4H	12.2	12.6	12.6	13.0	13.4	12.4	12.8	12.8	13.1	13.5
6H	12.2	12.5	12.6	12.9	13.3	12.3	12.6	12.8	13.1	13.5
8H	12.2	12.5	12.7	12.9	13.4	12.4	12.6	12.8	13.1	13.5
Variations with the observer position at spacings:										
S = 1.0H	+ 2.1 / - 4.6					+ 2.3 / - 4.7				
1.5H	+ 3.0 / - 2.9					+ 3.1 / - 3.1				
2.0H	+ 4.0 / - 5.4					+ 4.3 / - 5.8				

CIE Pub.117, 3156 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 4.0$ )

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-03-06

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:225.0V I:0.1750A P:38.00W PF:0.9610 Freq:50.00Hz Lamp Flux:3156.12x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

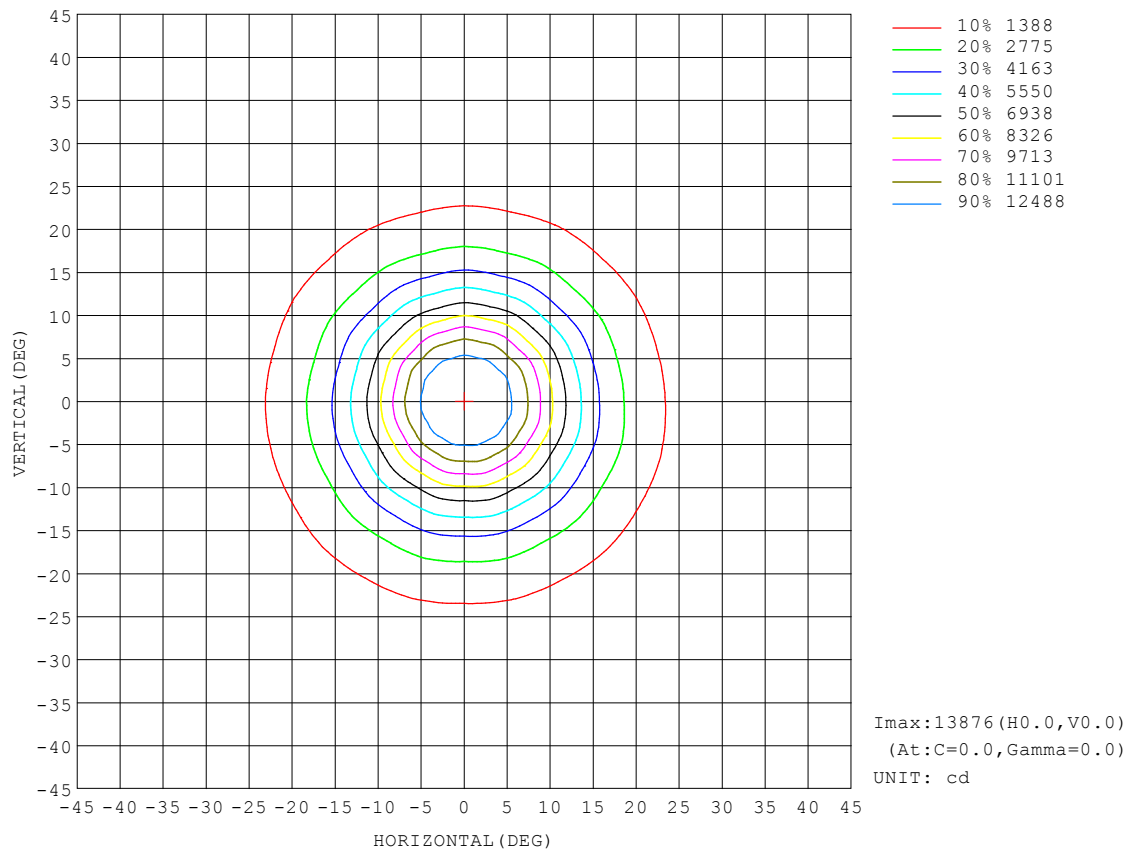
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	79	88	83	79	88	82	79	76
0.80	96	91	87	95	90	87	94	90	87	83
1.00	100	95	92	100	95	91	98	94	91	87
1.25	104	99	96	103	99	96	101	97	95	91
1.50	107	102	99	105	101	99	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	111	109	112	110	108	109	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: AE  
Test Date: 2020-03-06

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.240m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:225.0V I:0.1750A P:38.00W PF:0.9610 Freq:50.00Hz Lamp Flux:3156.12x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:



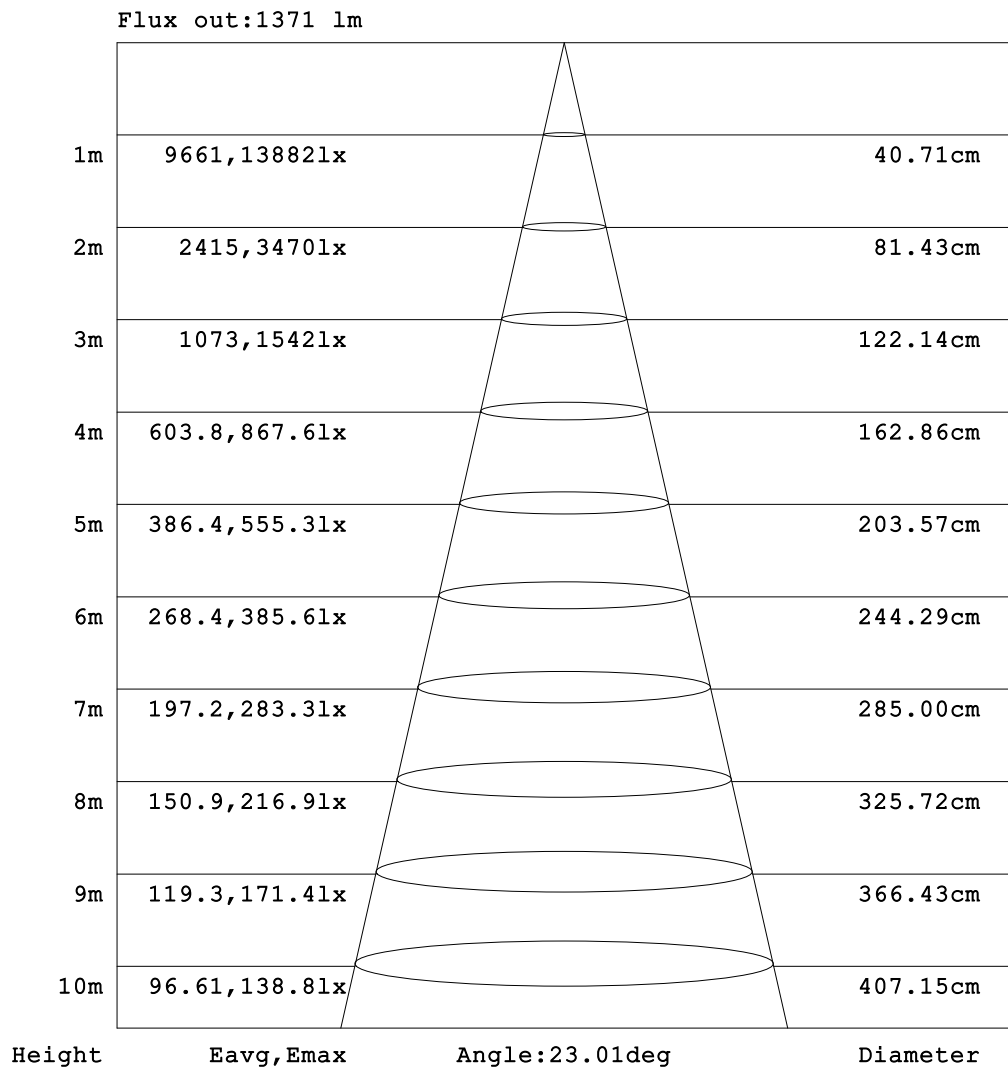
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-03-06

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:



### AAI Figure

Test:U:225.0V I:0.1750A P:38.00W PF:0.9610 Freq:50.00Hz Lamp Flux:3156.12x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:



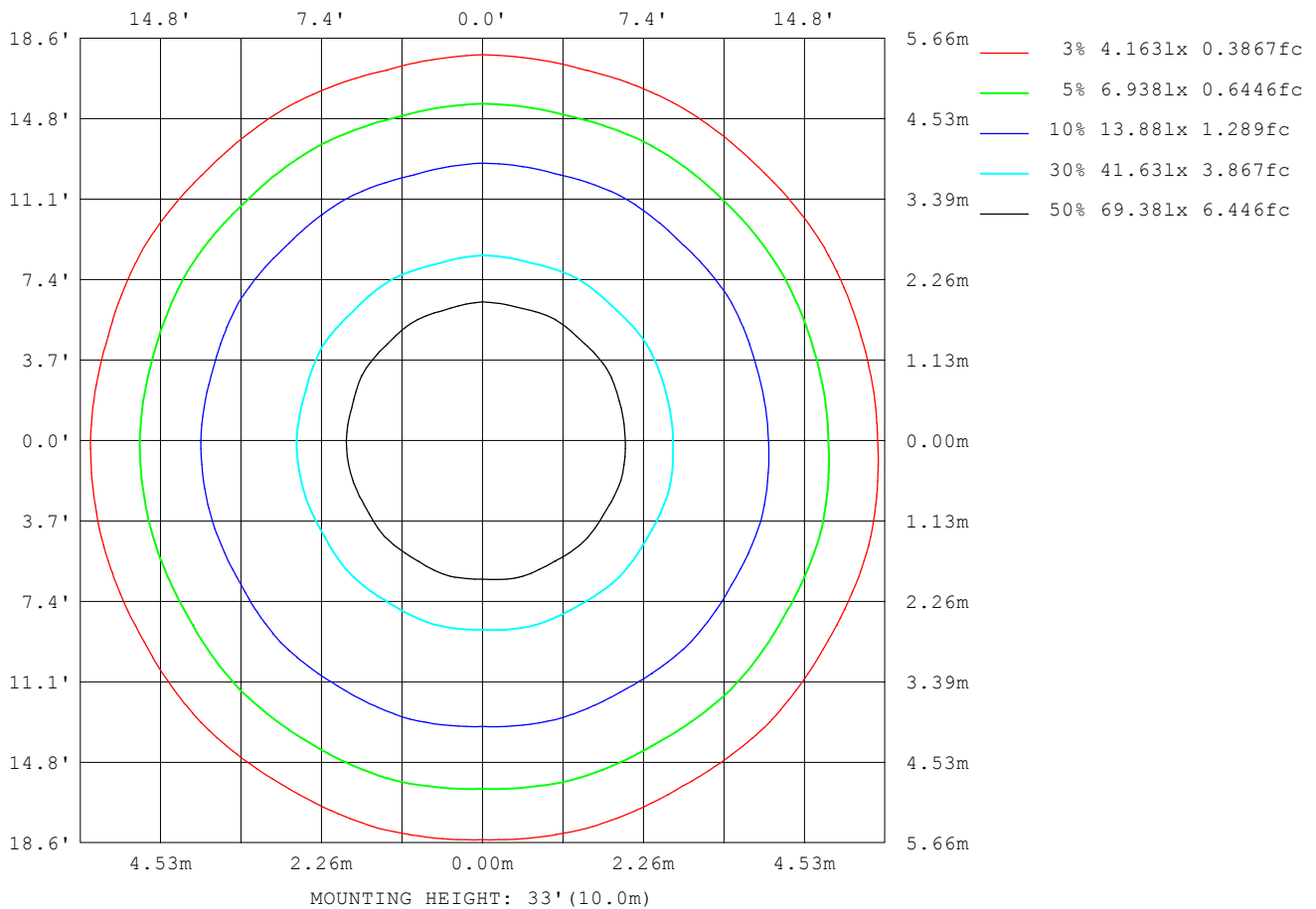
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:AE  
 Test Date:2020-03-06

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.240m [K=1.0000]  
 Remarks:

### ISOLUX DIAGRAM

Test:U:225.0V I:0.1750A P:38.00W PF:0.9610 Freq:50.00Hz Lamp Flux:3156.12x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:AE  
 Test Date:2020-03-06

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.240m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:225.0V I:0.1750A P:38.00W PF:0.9610 Freq:50.00Hz Lamp Flux:3156.12x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

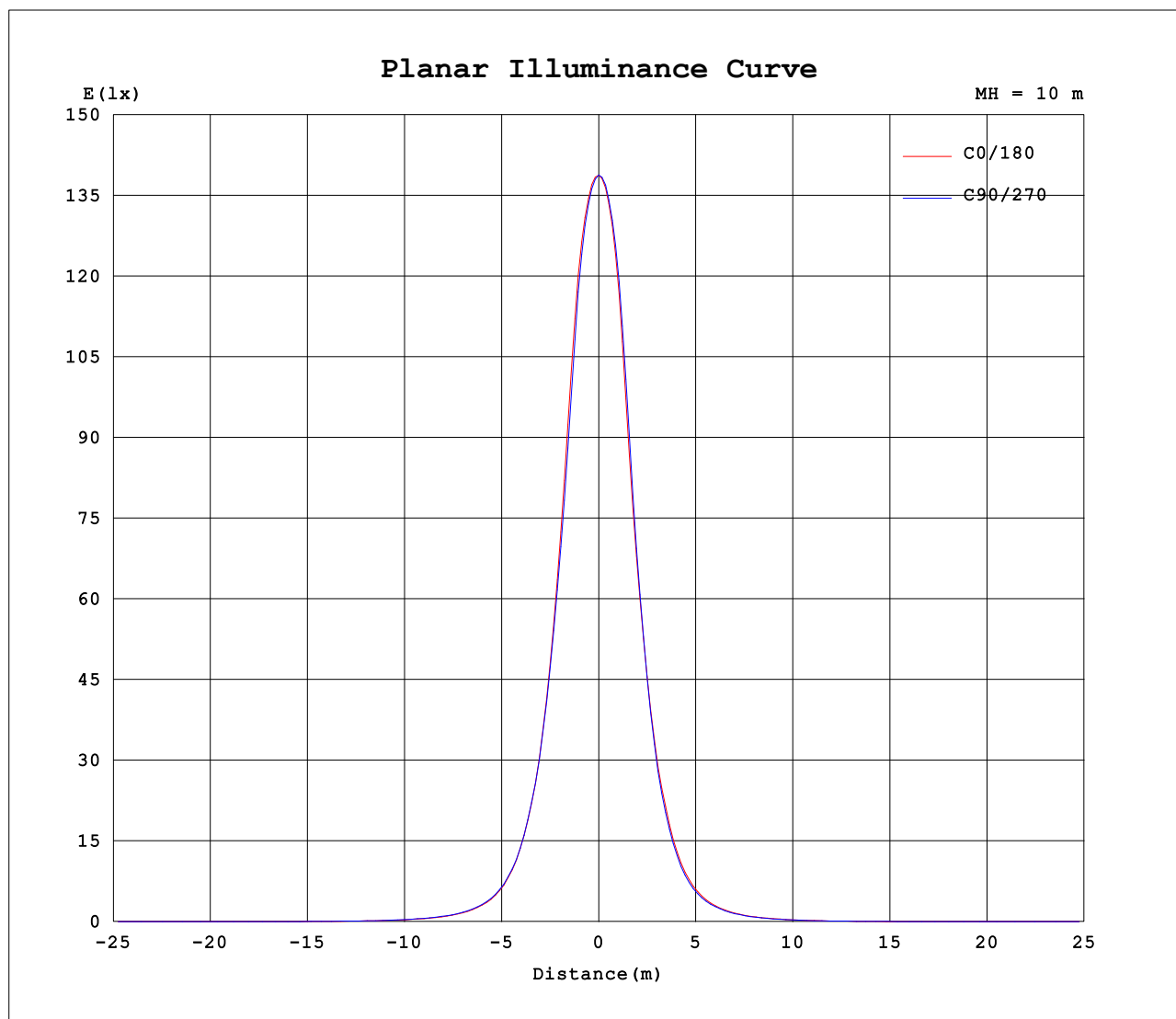
AvgL	cd/m2
L_0~180 (65) av	3851
L_0~180 (75) av	3244
L_0~180 (85) av	6058
L_90~270 (65) av	4114
L_90~270 (75) av	3419
L_90~270 (85) av	6061
L_45 (65) av	3972
L_45 (75) av	3300
L_45 (85) av	6156

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-03-06

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: AE  
Test Date: 2020-03-06

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.240m [K=1.0000]  
Remarks:

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.240m [K=1.0000]  
 Remarks:

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

```