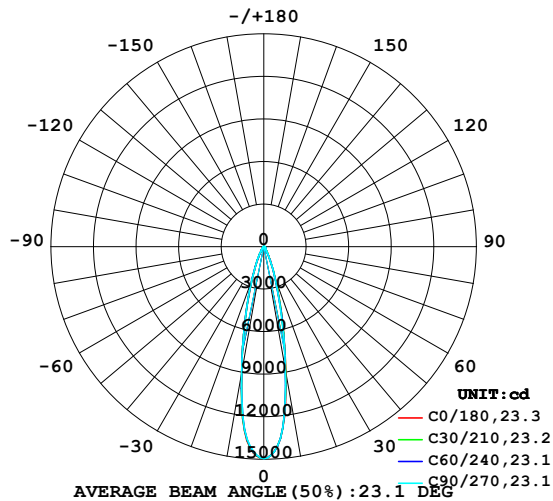


## LUMINAIRE PHOTOMETRIC TEST REPORT

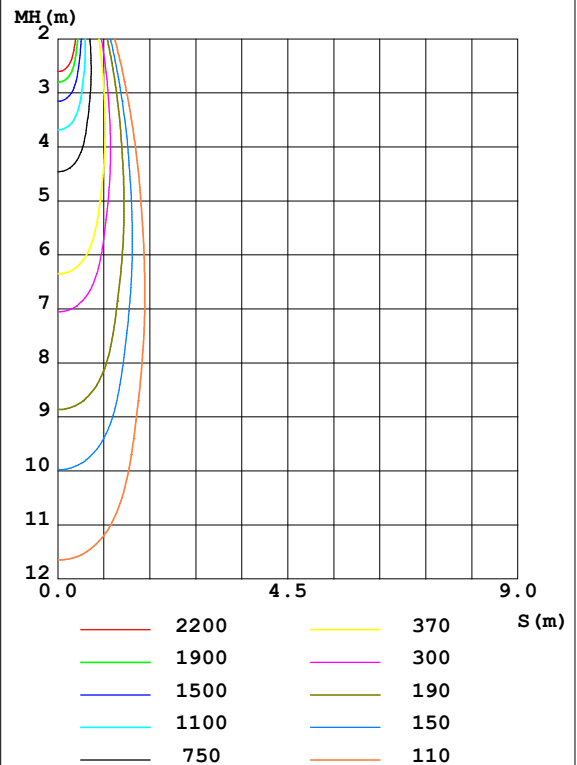
Test:U:225.0V I:0.1930A P:42.20W PF:0.9690 Freq:50.00Hz Lamp Flux:3386.59x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 80.25 lm/W
MODEL	ALT85-42G30-24	I <sub>max</sub> (cd)	14935	S/MH(C0/180)	0.40	
NOMINAL POWER(W)	42	LOR(%)	100.0	S/MH(C90/270)	0.39	
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	3386.6	□ UP,DN(C0-180)	0.0,51.1	
NOMINAL FLUX(lm)	3386.59	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:

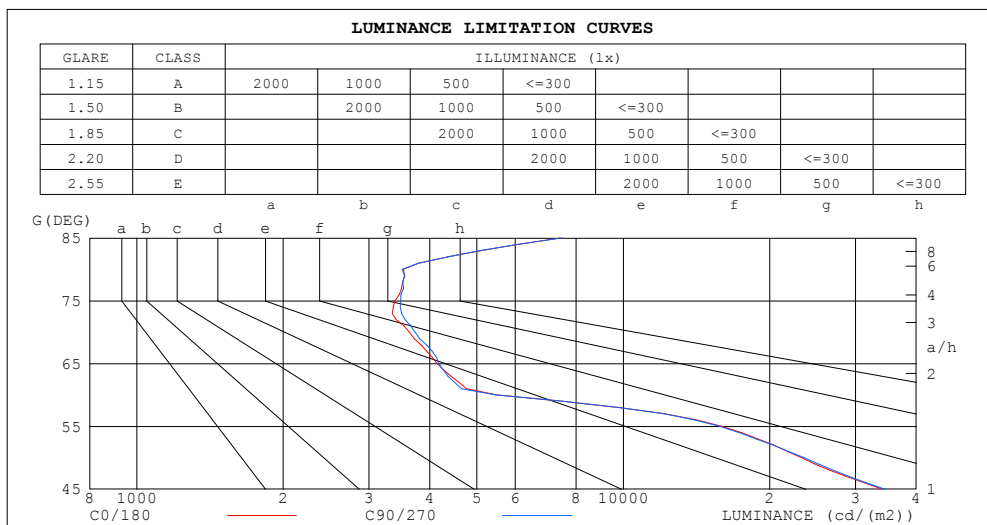
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	900.2	917.2	903.0	913.5	896.9	867.1	879.5	870.9	0- 10	1145	1145	33.8,33.8
20	241.5	254.2	245.7	251.5	240.3	225.1	228.7	230.3	10- 20	1352	2496	73.7,73.7
30	58.57	61.18	59.75	60.11	55.85	52.41	53.39	54.87	20- 30	555.5	3052	90.1,90.1
40	17.98	18.35	18.16	18.26	17.12	16.34	16.62	17.06	30- 40	201.4	3253	96.1,96.1
50	6.604	6.743	6.675	6.721	6.408	6.111	6.274	6.295	40- 50	83.96	3337	98.5,98.5
60	1.214	1.311	1.206	1.259	1.210	1.063	1.171	1.203	50- 60	34.31	3372	99.6,99.6
70	0.5487	0.5584	0.5638	0.5955	0.5854	0.5569	0.5660	0.5738	60- 70	7.891	3380	99.8,99.8
80	0.2709	0.2765	0.2695	0.2676	0.2474	0.2452	0.2479	0.2511	70- 80	4.282	3384	99.9,99.9
90	0.3266	0.3247	0.3239	0.3255	0.2064	0.2070	0.2046	0.2054	80- 90	2.782	3387	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:0.1930A P:42.20W PF:0.9690 Freq:50.00Hz Lamp Flux:3386.59x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	7429	7459
80	3529	3514
75	3391	3487
70	3629	3733
65	4146	4177
60	5490	5463
55	15915	15757
50	23241	23514
45	34114	34536

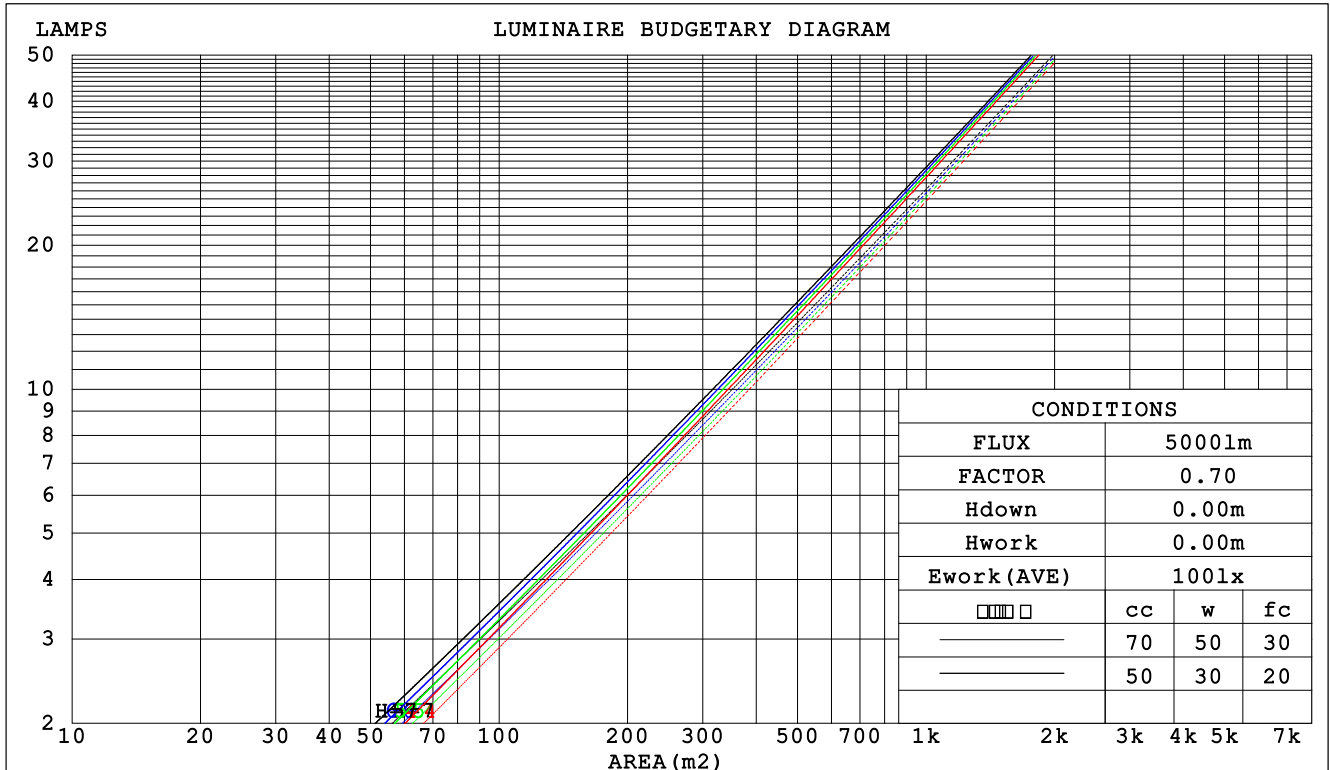
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-03-06

☐ 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:0.1930A P:42.20W PF:0.9690 Freq:50.00Hz Lamp Flux:3386.59x1 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:0.1930A P:42.20W PF:0.9690 Freq:50.00Hz Lamp Flux:3386.59x1 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	.144	.082	.026	.138	.079	.025	.125	.072	.023	.114	.066	.021	.103	.060	.019		
2.0	.135	.074	.023	.129	.071	.022	.119	.066	.021	.109	.061	.019	.101	.057	.018		
3.0	.126	.067	.020	.121	.065	.020	.113	.061	.019	.105	.057	.018	.097	.054	.017		
4.0	.118	.061	.018	.114	.060	.018	.107	.057	.017	.100	.054	.016	.094	.051	.016		
5.0	.111	.057	.016	.108	.056	.016	.102	.053	.016	.096	.051	.015	.091	.048	.015		
6.0	.106	.053	.015	.103	.052	.015	.097	.050	.015	.092	.048	.014	.088	.046	.014		
7.0	.100	.050	.014	.098	.049	.014	.093	.047	.014	.089	.045	.013	.085	.044	.013		
8.0	.095	.047	.013	.093	.046	.013	.089	.045	.013	.085	.043	.012	.082	.042	.012		
9.0	.091	.044	.012	.089	.043	.012	.086	.042	.012	.082	.041	.012	.079	.040	.012		
10.0	.087	.042	.012	.086	.041	.012	.082	.040	.011	.079	.039	.011	.076	.038	.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	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017		
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	.080	.068	.058	.046	.040	.034	.015	.013	.011		
4.0	.125	.098	.078	.107	.085	.068	.074	.059	.048	.043	.035	.028	.014	.011	.009		
5.0	.114	.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	.084	.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	.031	.051	.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:0.1930A P:42.20W PF:0.9690 Freq:50.00Hz Lamp Flux:3386.59x1 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	12.3	13.0	12.5	13.2	13.3	12.4	13.1	12.6	13.2	13.4
3H	12.2	12.9	12.5	13.0	13.2	12.3	12.9	12.5	13.1	13.3
4H	12.2	12.8	12.4	13.0	13.2	12.2	12.9	12.5	13.1	13.3
6H	12.1	12.7	12.4	12.9	13.2	12.2	12.8	12.5	13.0	13.2
8H	12.1	12.7	12.4	12.9	13.2	12.2	12.7	12.5	13.0	13.2
12H	12.1	12.6	12.4	12.9	13.2	12.2	12.7	12.5	13.0	13.2
4H 2H	12.1	12.8	12.4	13.0	13.2	12.2	12.8	12.5	13.0	13.3
3H	12.1	12.6	12.4	12.9	13.1	12.1	12.7	12.4	12.9	13.2
4H	12.0	12.5	12.4	12.8	13.1	12.1	12.6	12.4	12.9	13.2
6H	12.0	12.4	12.3	12.7	13.1	12.0	12.5	12.4	12.8	13.2
8H	12.0	12.4	12.4	12.7	13.1	12.0	12.4	12.4	12.8	13.2
12H	12.0	12.4	12.4	12.7	13.1	12.1	12.4	12.5	12.8	13.2
8H 4H	11.9	12.3	12.3	12.7	13.0	12.0	12.4	12.4	12.7	13.1
6H	11.9	12.2	12.3	12.6	13.0	11.9	12.3	12.4	12.7	13.1
8H	11.9	12.2	12.3	12.6	13.0	12.0	12.3	12.4	12.7	13.1
12H	12.0	12.2	12.4	12.7	13.1	12.0	12.3	12.5	12.7	13.2
12H 4H	11.8	12.2	12.3	12.6	13.0	11.9	12.3	12.3	12.7	13.0
6H	11.8	12.1	12.3	12.5	13.0	11.9	12.2	12.3	12.6	13.1
8H	11.9	12.1	12.3	12.6	13.0	11.9	12.2	12.4	12.6	13.1
Variations with the observer position at spacings:										
S = 1.0H	+ 2.1 / - 4.3					+ 2.2 / - 4.3				
1.5H	+ 3.1 / - 2.7					+ 3.1 / - 2.6				
2.0H	+ 3.8 / - 5.2					+ 3.8 / - 5.2				

CIE Pub.117, 3387 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 4.2$ )

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:0.1930A P:42.20W PF:0.9690 Freq:50.00Hz Lamp Flux:3386.59x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

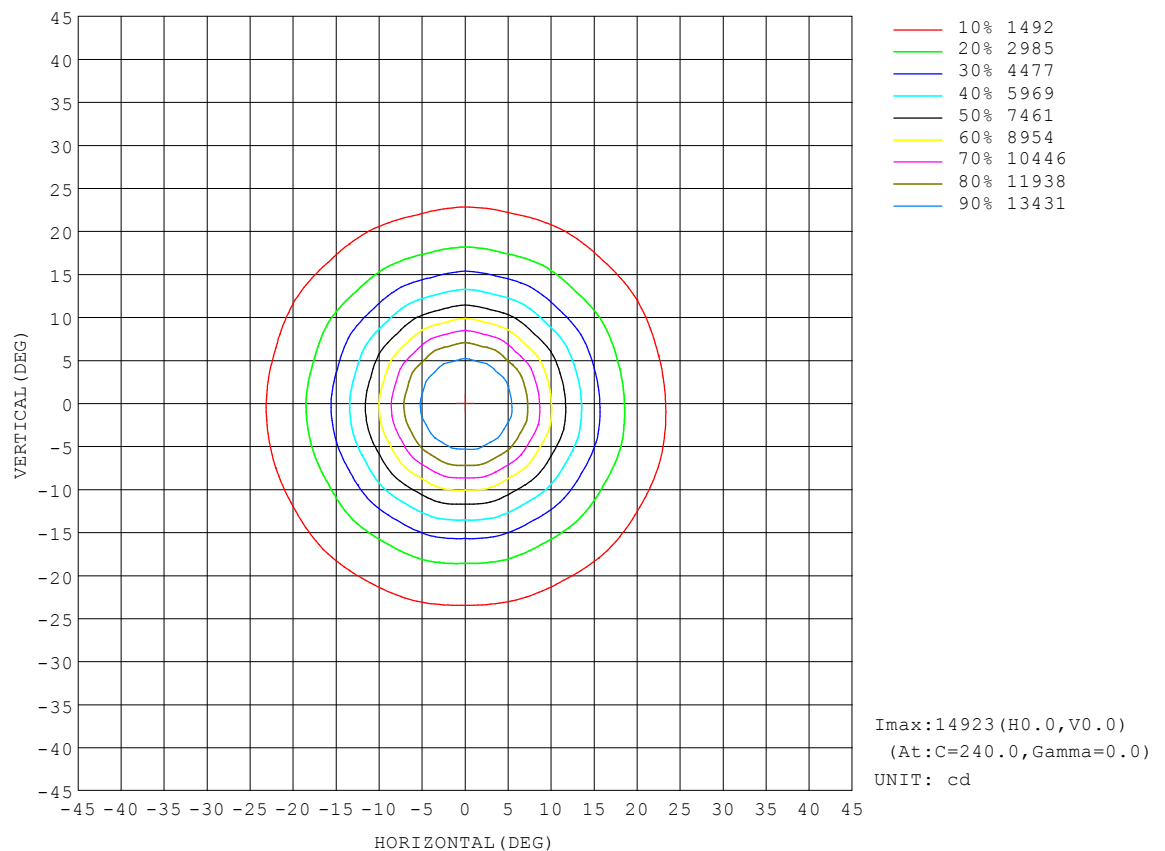
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	79	89	83	79	88	82	79	76
0.80	96	91	87	96	90	87	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	98	95	91
1.50	107	102	99	106	102	99	103	100	98	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	104	102	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	112	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:0.1930A P:42.20W PF:0.9690 Freq:50.00Hz Lamp Flux:3386.59x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:



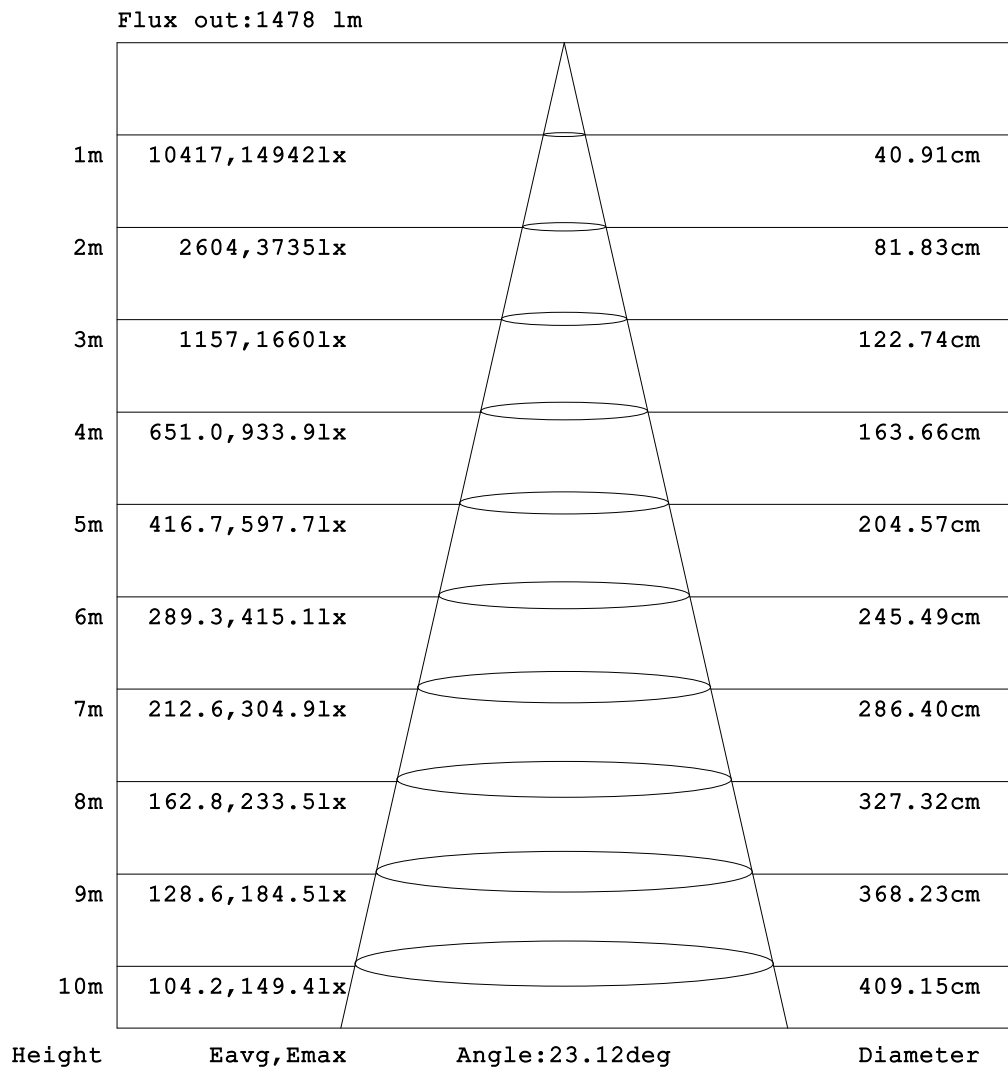
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-03-06

☐ 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:0.1930A P:42.20W PF:0.9690 Freq:50.00Hz Lamp Flux:3386.59x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:



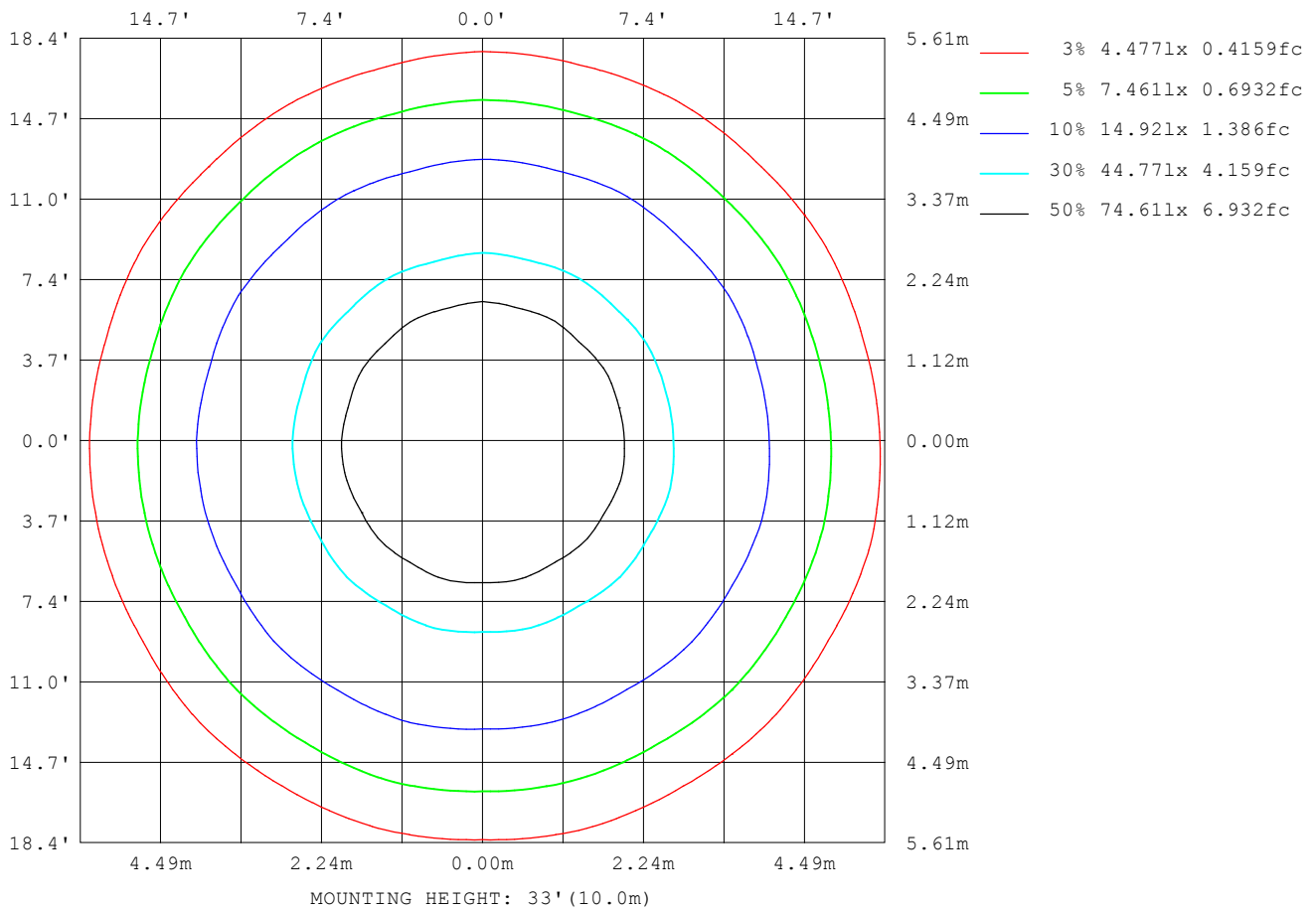
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1930A P:42.20W PF:0.9690 Freq:50.00Hz Lamp Flux:3386.59x1 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:0.1930A P:42.20W PF:0.9690 Freq:50.00Hz Lamp Flux:3386.59x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

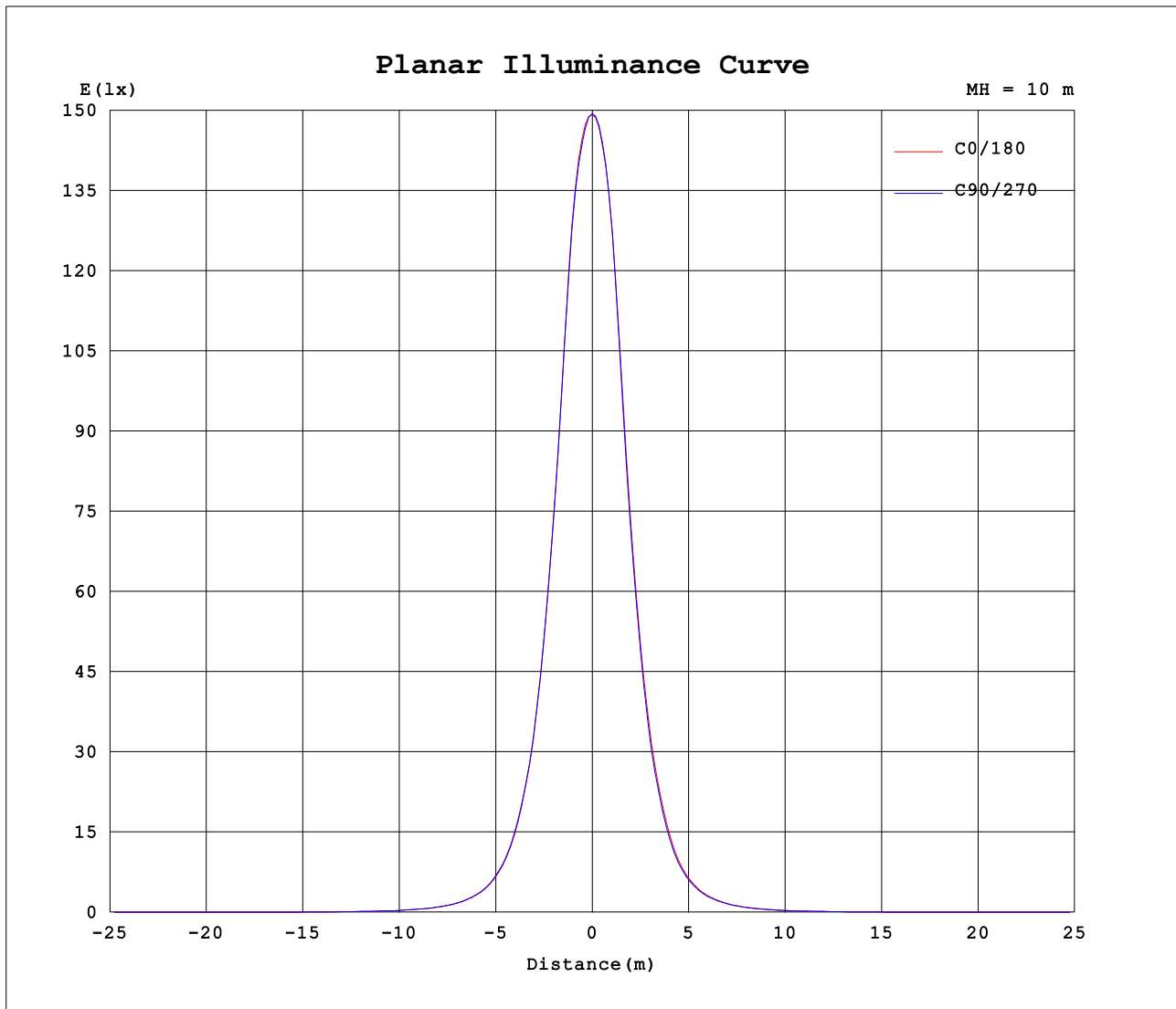
AvgL	cd/m2
L_0~180 (65) av	4198
L_0~180 (75) av	3511
L_0~180 (85) av	6555
L_90~270 (65) av	4138
L_90~270 (75) av	3530
L_90~270 (85) av	6548
L_45 (65) av	4197
L_45 (75) av	3550
L_45 (85) av	6618

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:

```