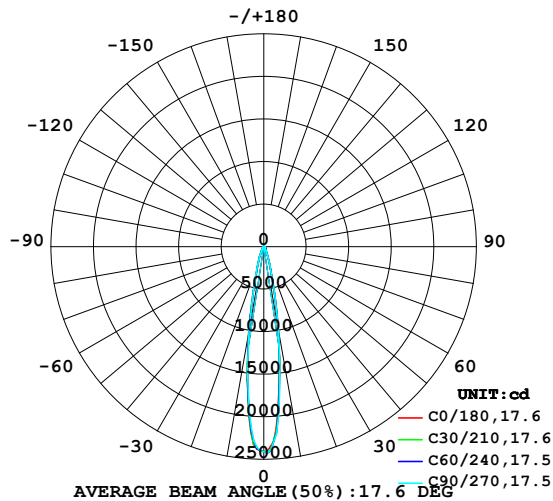


LUMINAIRE PHOTOMETRIC TEST REPORT

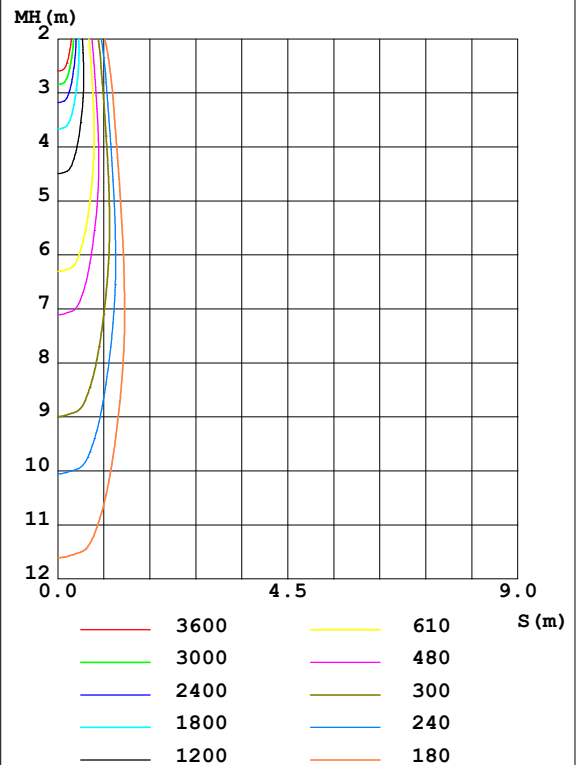
Test:U:225.0V I:0.1910A P:41.80W PF:0.9690 Freq:50.00Hz Lamp Flux:3466.91x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		SUR.:75		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 82.94 lm/W
MODEL	ALT85-42G30-15	I _{max} (cd)	24257	S/MH(C0/180)	0.30	
NOMINAL POWER(W)	42	LOR(%)	100.0	S/MH(C90/270)	0.30	
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	3466.9	□ UP,DN(C0-180)	0.0,50.7	
NOMINAL FLUX(lm)	3466.91	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,49.3	
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:

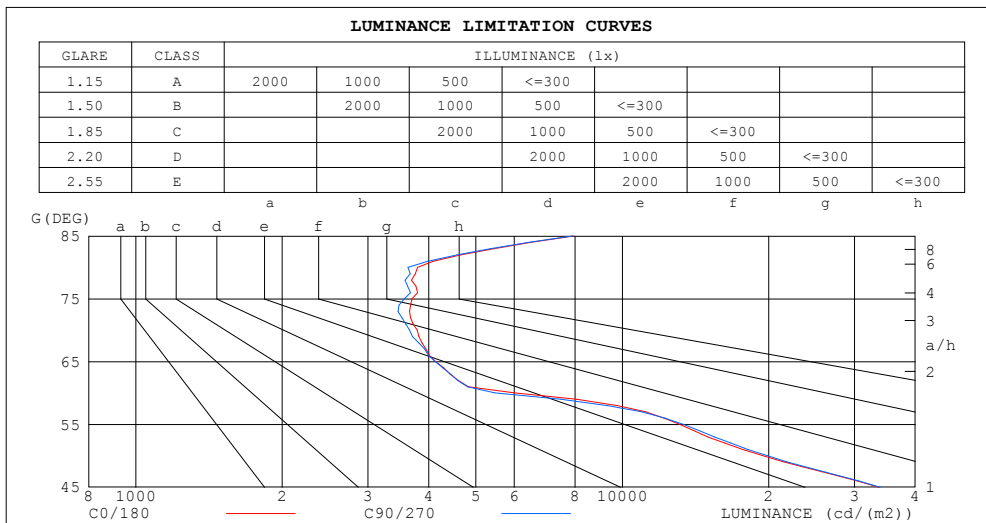
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1025	1031	1000	992.7	974.0	945.4	995.9	996.8	0- 10	1540	1540	44.4,44.4
20	184.4	192.7	189.4	188.4	182.6	173.1	176.2	173.9	10- 20	1175	2715	78.3,78.3
30	49.17	52.20	50.86	50.93	48.10	46.02	46.30	46.86	20- 30	442.6	3157	91.1,91.1
40	17.65	18.41	18.03	17.72	16.86	16.46	16.46	16.69	30- 40	185.5	3343	96.4,96.4
50	5.482	5.749	5.645	5.533	5.092	4.984	4.910	5.015	40- 50	79.87	3423	98.7,98.7
60	1.317	1.297	1.211	1.213	1.202	1.192	1.235	1.208	50- 60	28.46	3451	99.5,99.5
70	0.5685	0.5668	0.5532	0.5695	0.6121	0.6088	0.5995	0.6273	60- 70	8.111	3459	99.8,99.8
80	0.2892	0.2831	0.2787	0.2741	0.2749	0.2823	0.2852	0.2893	70- 80	4.527	3464	99.9,99.9
90	0.3418	0.3422	0.3396	0.3420	0.2034	0.2043	0.2027	0.2035	80- 90	2.968	3467	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:0.1910A P:41.80W PF:0.9690 Freq:50.00Hz Lamp Flux:3466.91x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	7947	7896
80	3794	3627
75	3699	3568
70	3787	3655
65	4129	4125
60	6000	5471
55	13108	13330
50	19427	19840
45	33701	33863

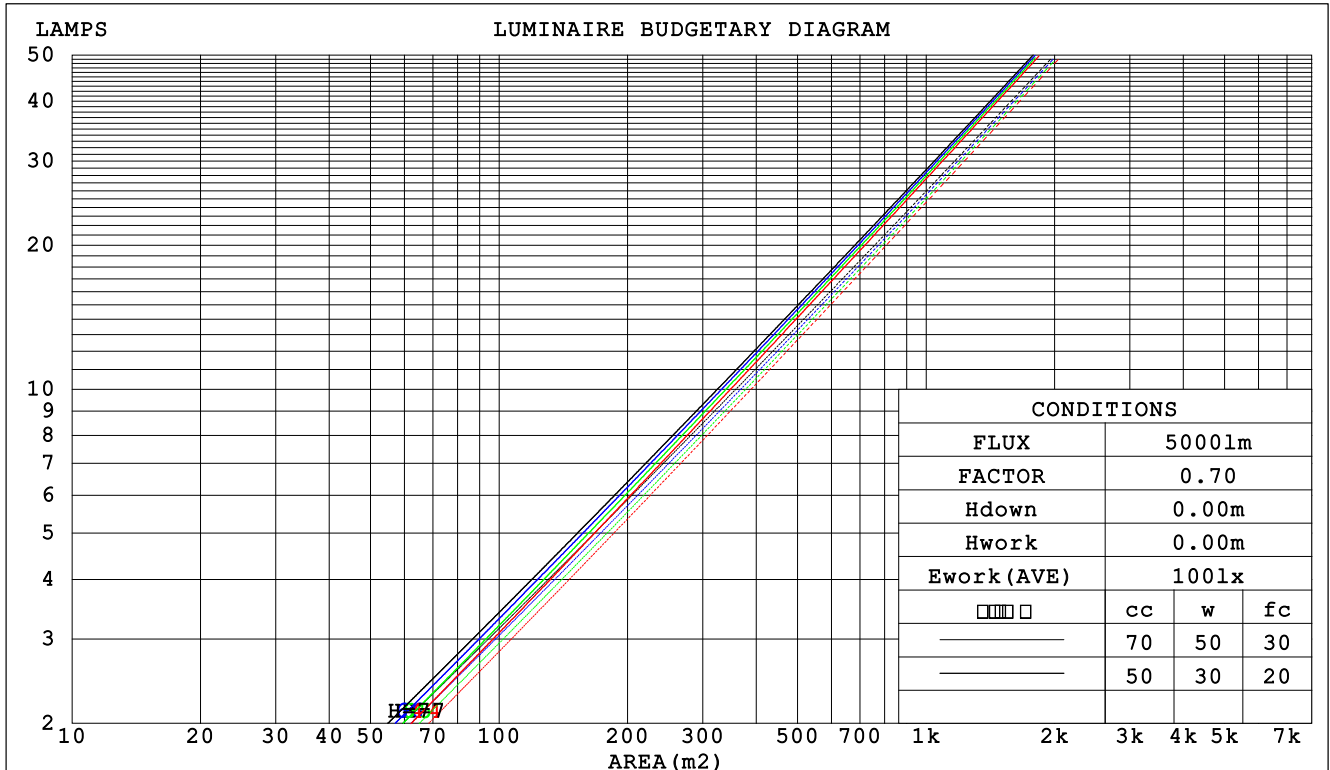
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-03-06

☐ 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:0.1910A P:41.80W PF:0.9690 Freq:50.00Hz Lamp Flux:3466.91x1 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:0.1910A P:41.80W PF:0.9690 Freq:50.00Hz Lamp Flux:3466.91x1 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	.137	.078	.025	.130	.074	.024	.118	.067	.022	.106	.061	.020	.096	.055	.018																	
2.0	.126	.069	.021	.121	.067	.021	.111	.062	.019	.101	.057	.018	.093	.052	.017																	
3.0	.118	.063	.019	.113	.061	.018	.105	.057	.017	.097	.053	.016	.089	.049	.015																	
4.0	.110	.057	.017	.106	.056	.016	.099	.052	.016	.092	.050	.015	.086	.047	.014																	
5.0	.103	.053	.015	.100	.051	.015	.094	.049	.014	.088	.047	.014	.083	.044	.013																	
6.0	.097	.049	.014	.095	.048	.014	.089	.046	.013	.084	.044	.013	.080	.042	.012																	
7.0	.092	.046	.013	.090	.045	.013	.085	.043	.012	.081	.041	.012	.077	.040	.012																	
8.0	.087	.043	.012	.085	.042	.012	.081	.041	.012	.078	.039	.011	.074	.038	.011																	
9.0	.083	.040	.011	.081	.040	.011	.078	.039	.011	.075	.037	.011	.071	.036	.010																	
10.0	.079	.038	.011	.078	.038	.010	.075	.037	.010	.072	.036	.010	.069	.035	.010																	

<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	.168	.158	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.135	.113	.096	.116	.098	.083	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.123	.098	.079	.105	.085	.069	.072	.059	.048	.042	.035	.029	.013	.011	.009	
5.0	.112	.086	.066	.096	.074	.057	.066	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.103	.076	.056	.088	.065	.049	.061	.046	.034	.035	.027	.020	.011	.009	.007	
7.0	.095	.067	.048	.082	.058	.042	.057	.041	.029	.033	.024	.018	.011	.008	.006	
8.0	.088	.060	.041	.076	.052	.036	.053	.037	.026	.031	.022	.015	.010	.007	.005	
9.0	.083	.055	.036	.071	.048	.031	.049	.033	.022	.029	.020	.013	.009	.006	.004	
10.0	.078	.050	.032	.067	.043	.028	.046	.031	.020	.027	.018	.012	.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:0.1910A P:41.80W PF:0.9690 Freq:50.00Hz Lamp Flux:3466.91x1 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	11.6	12.2	11.8	12.4	12.5	11.6	12.3	11.8	12.4	12.6
3H	11.5	12.1	11.8	12.3	12.5	11.6	12.1	11.8	12.3	12.5
4H	11.5	12.1	11.7	12.3	12.5	11.5	12.1	11.8	12.3	12.5
6H	11.4	12.0	11.7	12.2	12.5	11.5	12.0	11.7	12.2	12.5
8H	11.4	12.0	11.7	12.2	12.5	11.5	12.0	11.7	12.2	12.5
12H	11.4	12.0	11.8	12.2	12.5	11.5	12.0	11.8	12.2	12.5
4H 2H	11.4	12.0	11.7	12.2	12.4	11.5	12.1	11.7	12.3	12.5
3H	11.4	11.9	11.7	12.1	12.4	11.4	11.9	11.7	12.2	12.4
4H	11.4	11.8	11.7	12.1	12.4	11.4	11.8	11.7	12.1	12.4
6H	11.3	11.7	11.7	12.1	12.4	11.3	11.8	11.7	12.1	12.4
8H	11.3	11.7	11.7	12.1	12.4	11.3	11.7	11.7	12.1	12.4
12H	11.4	11.7	11.8	12.1	12.5	11.4	11.7	11.8	12.1	12.5
8H 4H	11.2	11.6	11.6	12.0	12.3	11.3	11.6	11.6	12.0	12.3
6H	11.2	11.6	11.7	11.9	12.4	11.2	11.6	11.7	12.0	12.4
8H	11.3	11.6	11.7	12.0	12.4	11.3	11.6	11.7	12.0	12.4
12H	11.4	11.6	11.9	12.1	12.5	11.4	11.6	11.9	12.1	12.5
12H 4H	11.2	11.5	11.6	11.9	12.3	11.2	11.6	11.6	11.9	12.3
6H	11.2	11.5	11.6	11.9	12.3	11.2	11.5	11.7	11.9	12.3
8H	11.3	11.5	11.7	11.9	12.4	11.3	11.5	11.7	11.9	12.4
Variations with the observer position at spacings:										
S = 1.0H	+ 2.0 / - 4.4					+ 2.1 / - 4.5				
1.5H	+ 3.2 / - 3.1					+ 3.3 / - 3.2				
2.0H	+ 4.2 / - 4.2					+ 4.3 / - 4.3				

CIE Pub.117, 3467 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 4.3$)

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:0.1910A P:41.80W PF:0.9690 Freq:50.00Hz Lamp Flux:3466.91x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

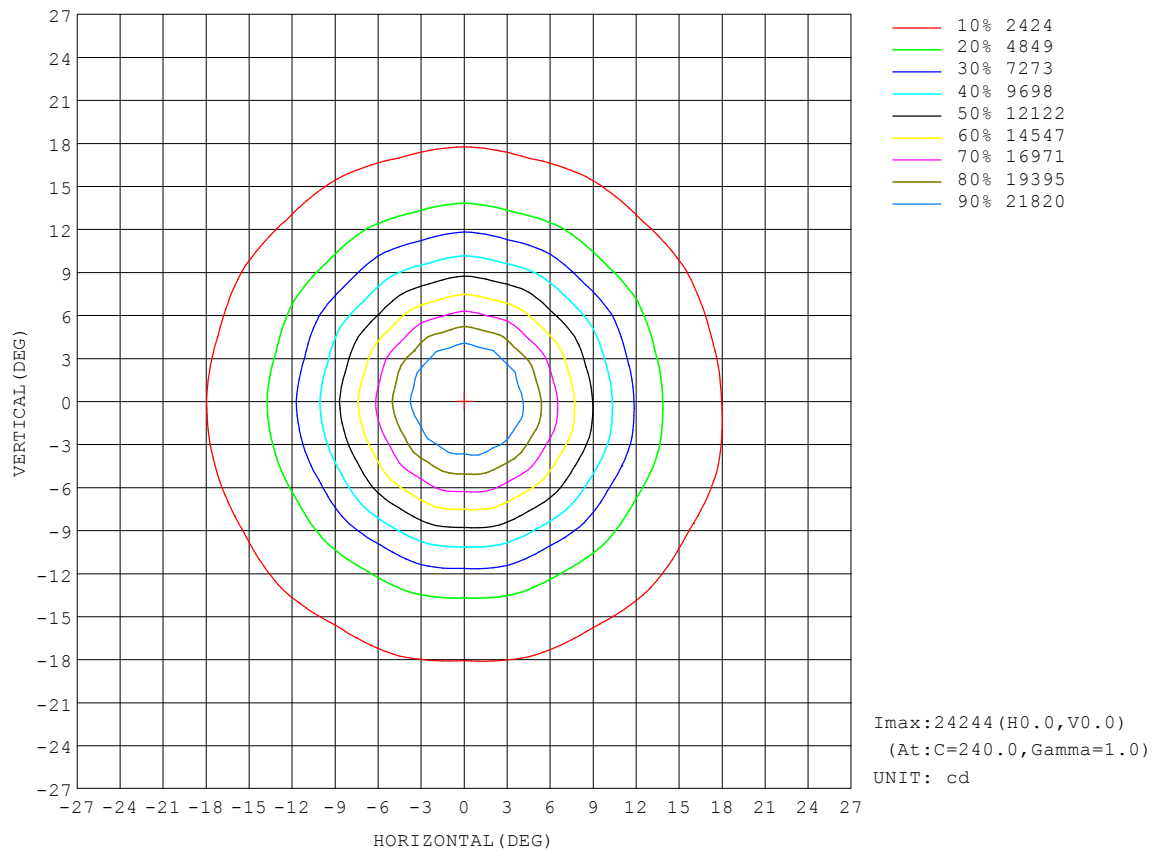
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	80	89	83	80	88	83	80	76
0.80	96	91	87	96	91	87	95	90	87	84
1.00	101	95	92	100	95	92	98	95	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	102	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	110	112	110	108	109	107	105	98
5.00	115	113	112	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:0.1910A P:41.80W PF:0.9690 Freq:50.00Hz Lamp Flux:3466.91x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

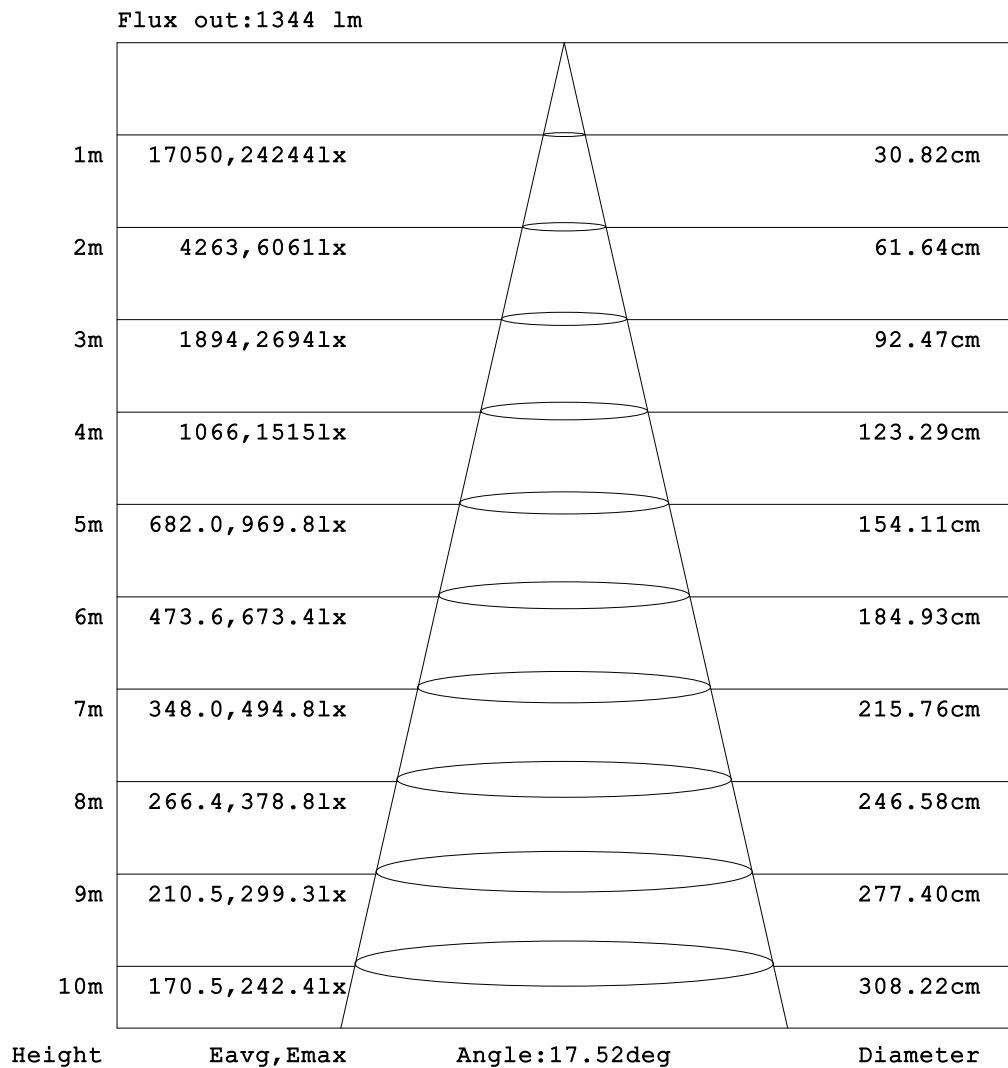


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-03-06

☐ 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:0.1910A P:41.80W PF:0.9690 Freq:50.00Hz Lamp Flux:3466.91x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:



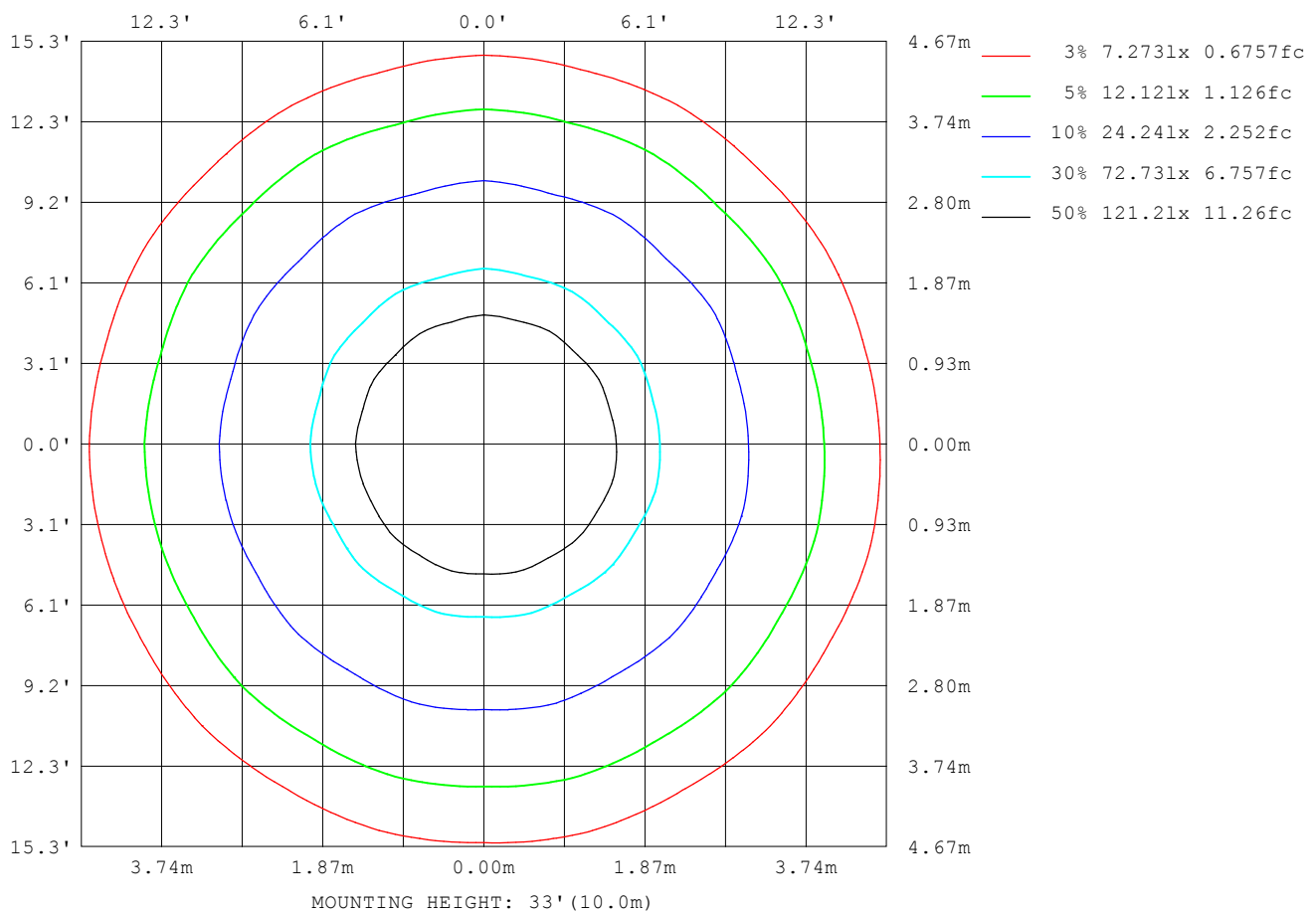
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1910A P:41.80W PF:0.9690 Freq:50.00Hz Lamp Flux:3466.91x1 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:0.1910A P:41.80W PF:0.9690 Freq:50.00Hz Lamp Flux:3466.91x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

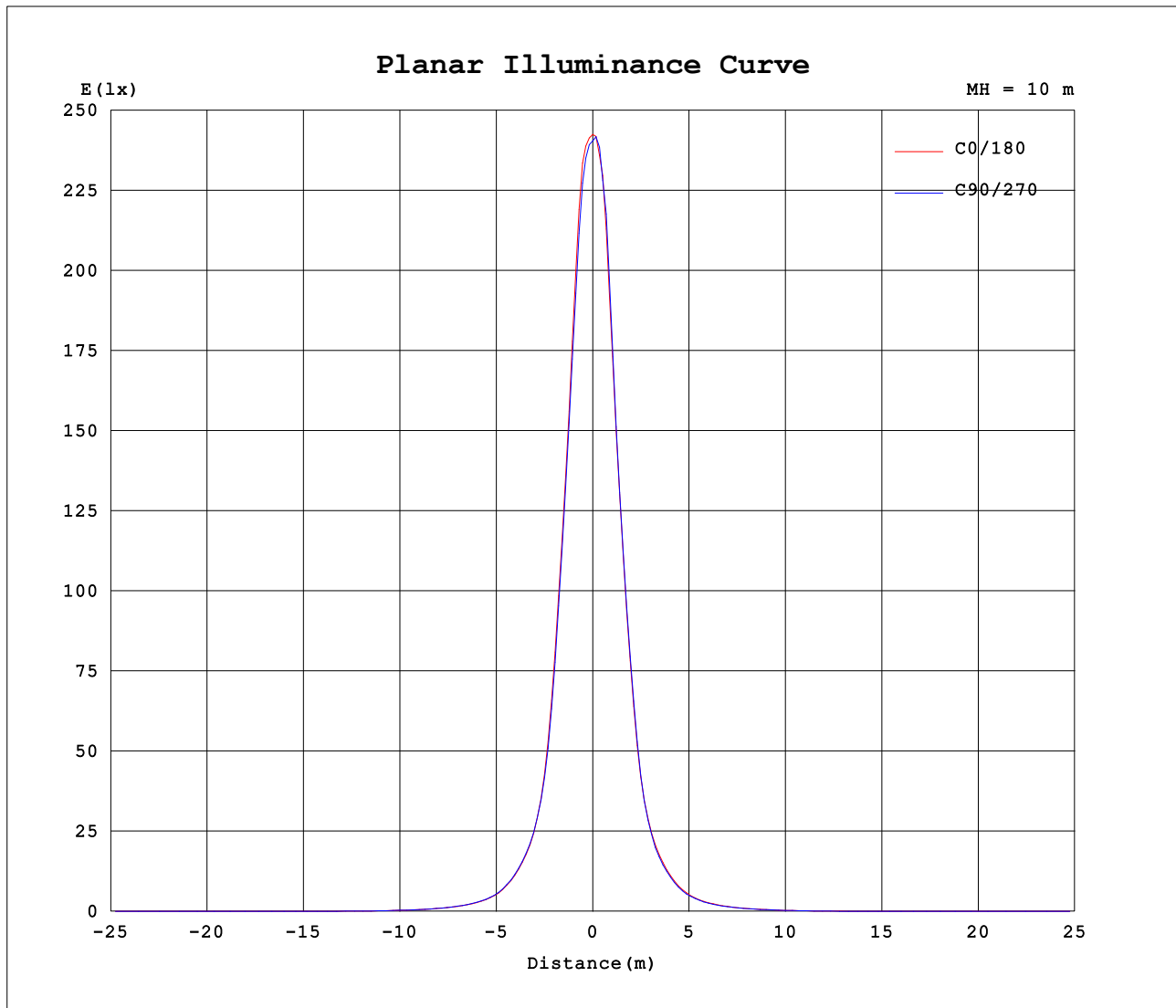
AvgL	cd/m2
L_0~180 (65) av	4271
L_0~180 (75) av	3739
L_0~180 (85) av	7004
L_90~270 (65) av	4167
L_90~270 (75) av	3651
L_90~270 (85) av	7031
L_45 (65) av	4295
L_45 (75) av	3733
L_45 (85) av	7093

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:

```