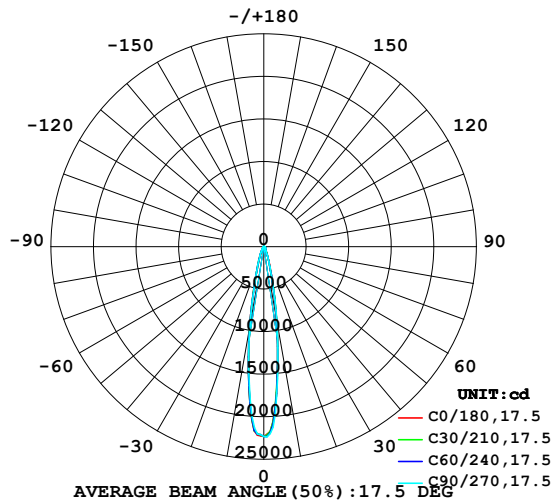


LUMINAIRE PHOTOMETRIC TEST REPORT

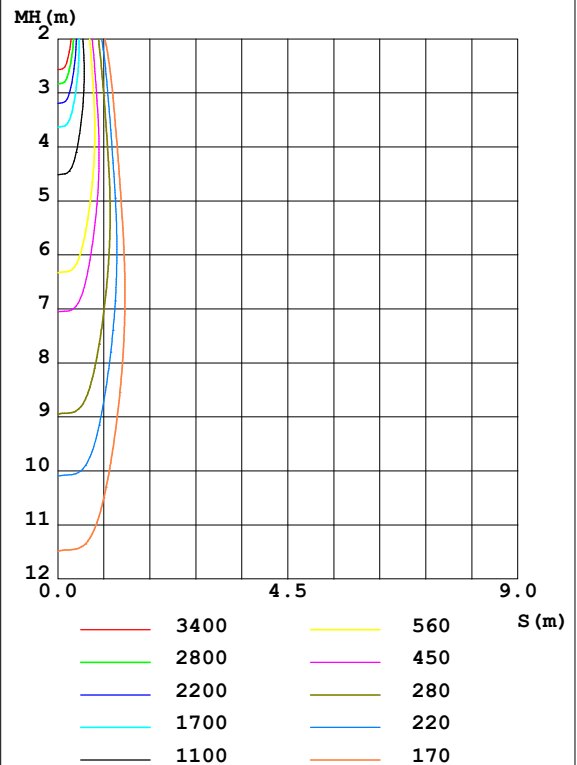
Test:U:225.0V I:0.1750A P:37.90W PF:0.9600 Freq:50.00Hz Lamp Flux:3220.84x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.:		SUR.:75		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 84.98 lm/W
MODEL	ALT85-38G30-15	I _{max} (cd)	22357	S/MH(C0/180)	0.29	
NOMINAL POWER(W)	38	LOR(%)	100.0	S/MH(C90/270)	0.29	
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	3220.8	<input type="checkbox"/> UP,DN(C0-180)	0.0,51.5	
NOMINAL FLUX(lm)	3220.84	CIE CLASS	DIRECT	<input type="checkbox"/> UP,DN(C180-360)	0.0,48.5	
LAMPS INSIDE	1	<input type="checkbox"/> up(%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	225	<input type="checkbox"/> 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:

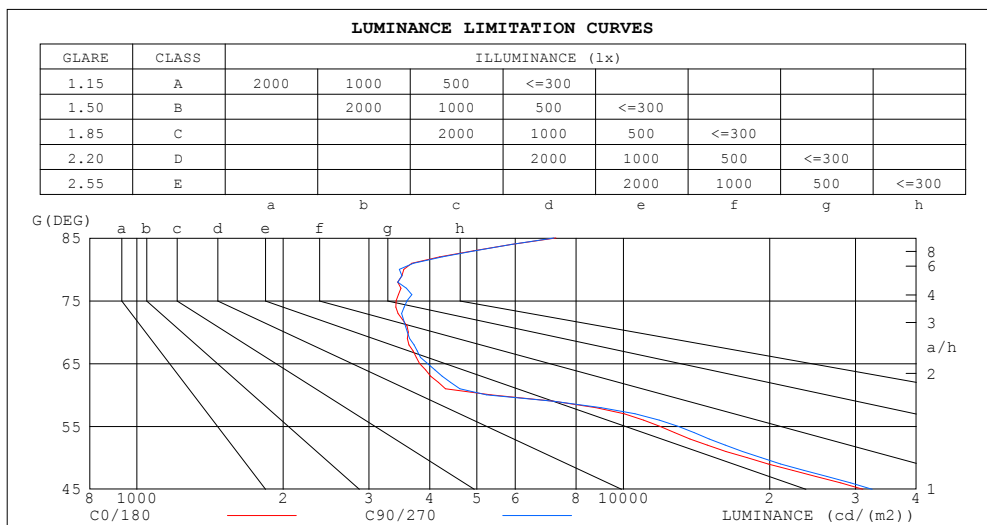
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	964.6	999.3	948.2	919.5	880.6	844.3	893.2	911.6	0- 10	1412	1412	43.8,43.8
20	174.1	185.8	179.6	175.9	166.6	157.7	163.2	163.5	10- 20	1107	2518	78.2,78.2
30	46.15	49.58	48.33	46.86	44.48	42.04	42.37	42.99	20- 30	412.3	2931	91,91
40	16.42	17.52	17.24	16.45	15.83	15.21	14.97	15.38	30- 40	172.6	3103	96.4,96.4
50	5.072	5.625	5.458	5.190	5.433	4.909	4.559	4.645	40- 50	75.46	3179	98.7,98.7
60	1.175	1.346	1.157	1.101	1.386	1.205	1.105	1.117	50- 60	27.39	3206	99.5,99.5
70	0.5437	0.5469	0.5444	0.5074	0.5691	0.5666	0.5734	0.5742	60- 70	7.670	3214	99.8,99.8
80	0.2702	0.2691	0.2661	0.2562	0.2604	0.2570	0.2554	0.2659	70- 80	4.244	3218	99.9,99.9
90	0.3159	0.3123	0.3128	0.3134	0.1819	0.1849	0.1834	0.1861	80- 90	2.719	3221	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:37.90W PF:0.9600 Freq:50.00Hz Lamp Flux:3220.84x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	7266	7205
80	3539	3463
75	3412	3593
70	3615	3598
65	3810	3957
60	5344	5230
55	11873	12951
50	17946	19192
45	31058	32471

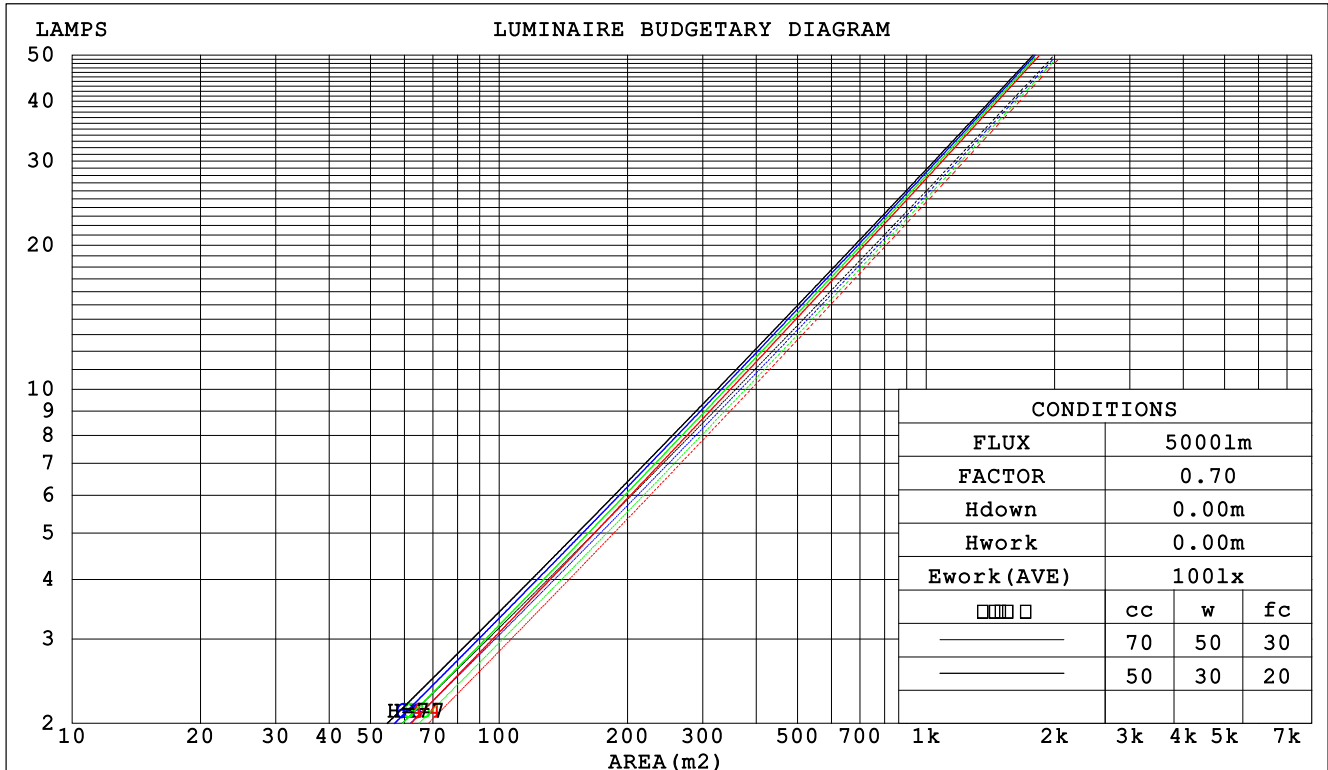
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-03-06

☐ 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:37.90W PF:0.9600 Freq:50.00Hz Lamp Flux:3220.84x1 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:37.90W PF:0.9600 Freq:50.00Hz Lamp Flux:3220.84x1 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	.068	.022	.107	.061	.020	.096	.056	.018		
2.0	.127	.070	.021	.121	.067	.021	.111	.062	.019	.102	.057	.018	.093	.053	.017		
3.0	.118	.063	.019	.113	.061	.018	.105	.057	.017	.097	.053	.016	.090	.050	.015		
4.0	.110	.057	.017	.107	.056	.016	.099	.053	.016	.093	.050	.015	.086	.047	.014		
5.0	.104	.053	.015	.100	.052	.015	.094	.049	.014	.089	.047	.014	.083	.044	.013		
6.0	.098	.049	.014	.095	.048	.014	.090	.046	.013	.085	.044	.013	.080	.042	.013		
7.0	.092	.046	.013	.090	.045	.013	.086	.043	.012	.081	.042	.012	.077	.040	.012		
8.0	.088	.043	.012	.086	.042	.012	.082	.041	.012	.078	.040	.011	.074	.038	.011		
9.0	.084	.040	.011	.082	.040	.011	.078	.039	.011	.075	.038	.011	.072	.037	.011		
10.0	.080	.038	.011	.078	.038	.011	.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	.089	.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	.089	.060	.041	.076	.052	.036	.053	.037	.025	.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	.031	.067	.043	.027	.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:0.1750A P:37.90W PF:0.9600 Freq:50.00Hz Lamp Flux:3220.84x1 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	2H	11.7	12.3	11.9	12.5	12.6	11.9	12.5	12.1	12.7	12.8
	3H	11.6	12.2	11.8	12.4	12.6	11.8	12.4	12.0	12.6	12.8
	4H	11.6	12.1	11.8	12.3	12.5	11.8	12.3	12.0	12.5	12.7
	6H	11.5	12.1	11.8	12.3	12.5	11.7	12.3	12.0	12.5	12.7
	8H	11.5	12.0	11.8	12.3	12.5	11.7	12.2	12.0	12.5	12.7
	12H	11.5	12.0	11.8	12.3	12.5	11.7	12.2	12.0	12.5	12.7
4H	2H	11.5	12.1	11.8	12.3	12.5	11.7	12.3	12.0	12.5	12.7
	3H	11.5	12.0	11.8	12.2	12.5	11.6	12.2	12.0	12.4	12.7
	4H	11.4	11.9	11.8	12.2	12.5	11.6	12.1	12.0	12.4	12.7
	6H	11.4	11.8	11.8	12.1	12.5	11.6	12.0	12.0	12.3	12.7
	8H	11.4	11.8	11.8	12.1	12.5	11.6	12.0	12.0	12.3	12.7
	12H	11.5	11.8	11.9	12.2	12.6	11.6	12.0	12.0	12.4	12.7
8H	4H	11.3	11.7	11.7	12.0	12.4	11.5	11.9	11.9	12.2	12.6
	6H	11.3	11.6	11.7	12.0	12.4	11.5	11.8	11.9	12.2	12.6
	8H	11.3	11.6	11.8	12.0	12.5	11.5	11.8	12.0	12.2	12.7
	12H	11.5	11.7	11.9	12.1	12.6	11.6	11.9	12.1	12.3	12.8
12H	4H	11.3	11.6	11.7	12.0	12.4	11.5	11.8	11.9	12.2	12.6
	6H	11.3	11.6	11.7	12.0	12.4	11.5	11.7	11.9	12.2	12.6
	8H	11.3	11.6	11.8	12.0	12.5	11.5	11.7	12.0	12.2	12.7
Variations with the observer position at spacings:											
S = 1.0H	+ 2.0 / - 4.6					+ 2.0 / - 4.5					
1.5H	+ 3.1 / - 3.1					+ 3.2 / - 3.1					
2.0H	+ 4.2 / - 4.4					+ 4.2 / - 4.5					

CIE Pub.117, 3221 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.1)

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:37.90W PF:0.9600 Freq:50.00Hz Lamp Flux:3220.84x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

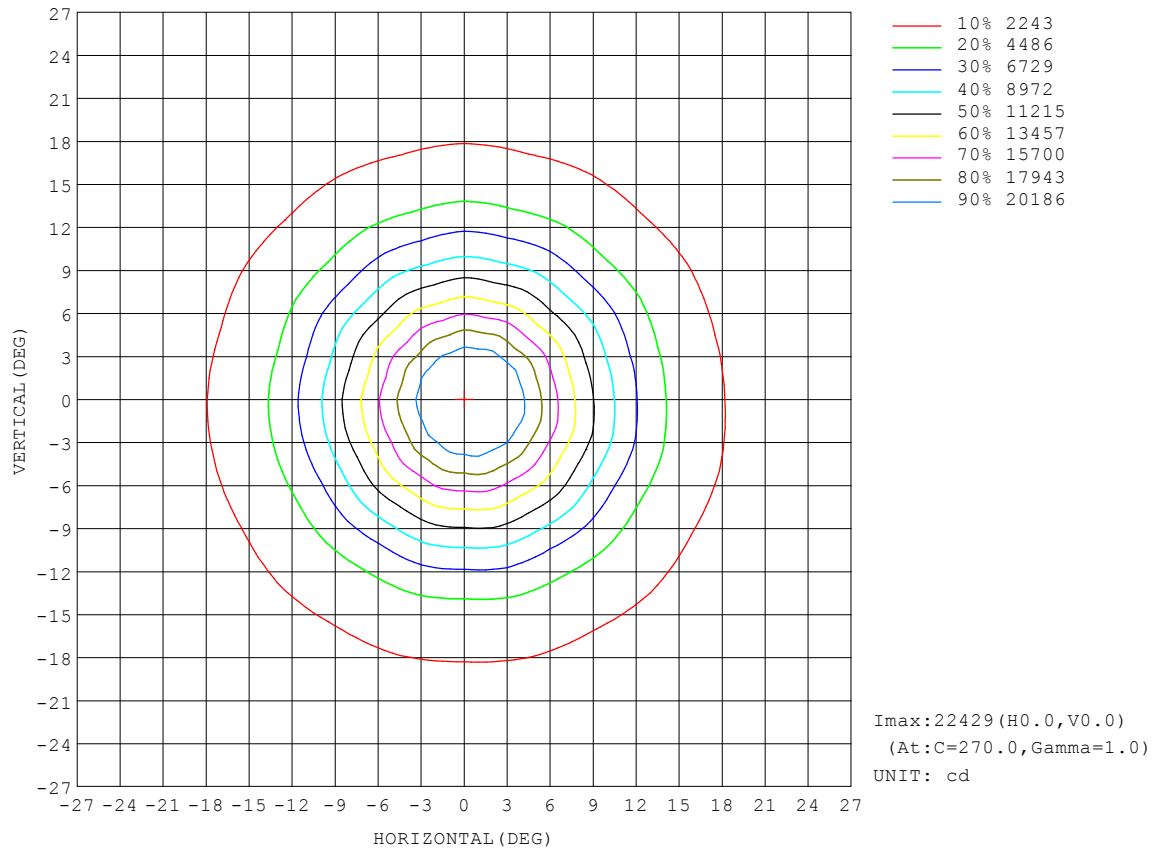
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	80	89	83	80	88	83	79	76
0.80	96	91	87	96	91	87	95	90	87	83
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	109	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:0.1750A P:37.90W PF:0.9600 Freq:50.00Hz Lamp Flux:3220.84x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

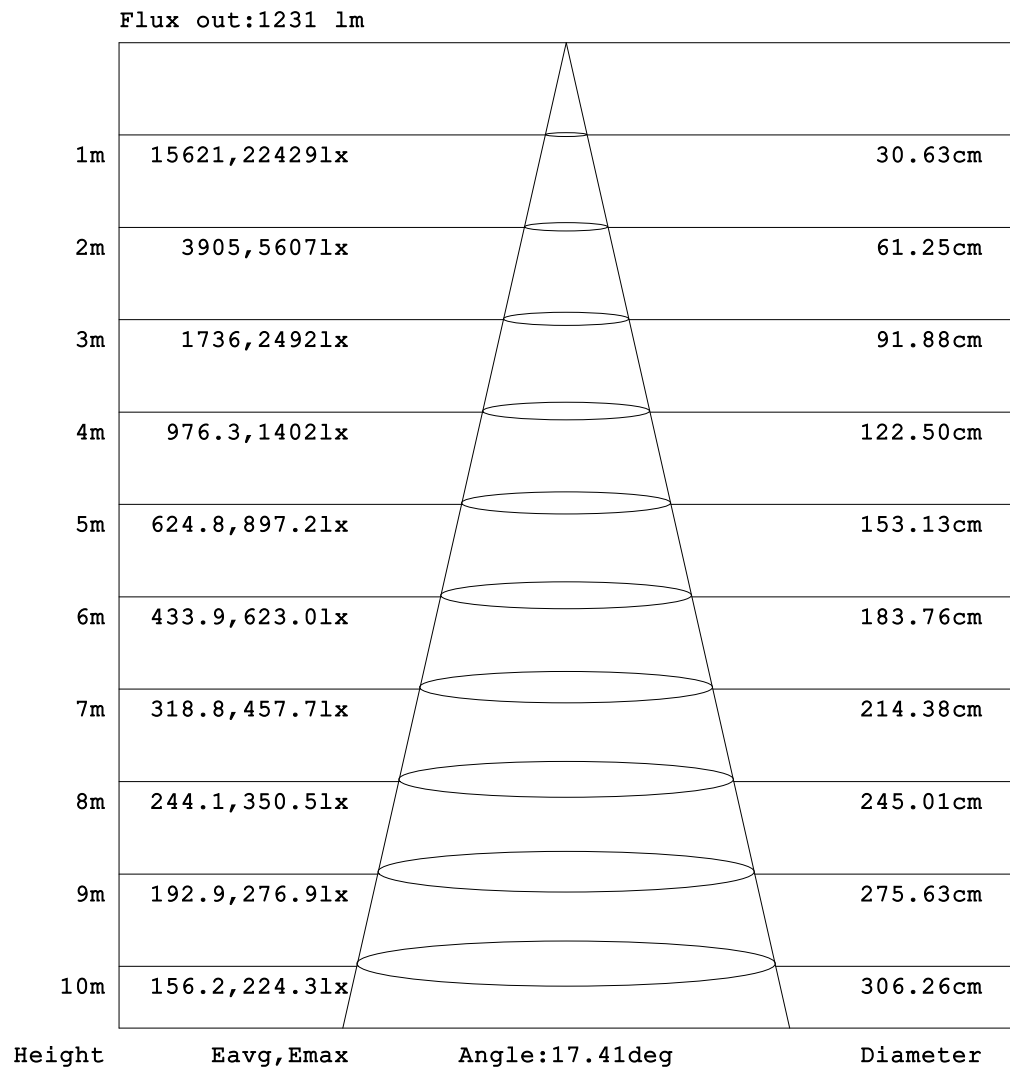


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-03-06

☐ 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:37.90W PF:0.9600 Freq:50.00Hz Lamp Flux:3220.84x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:



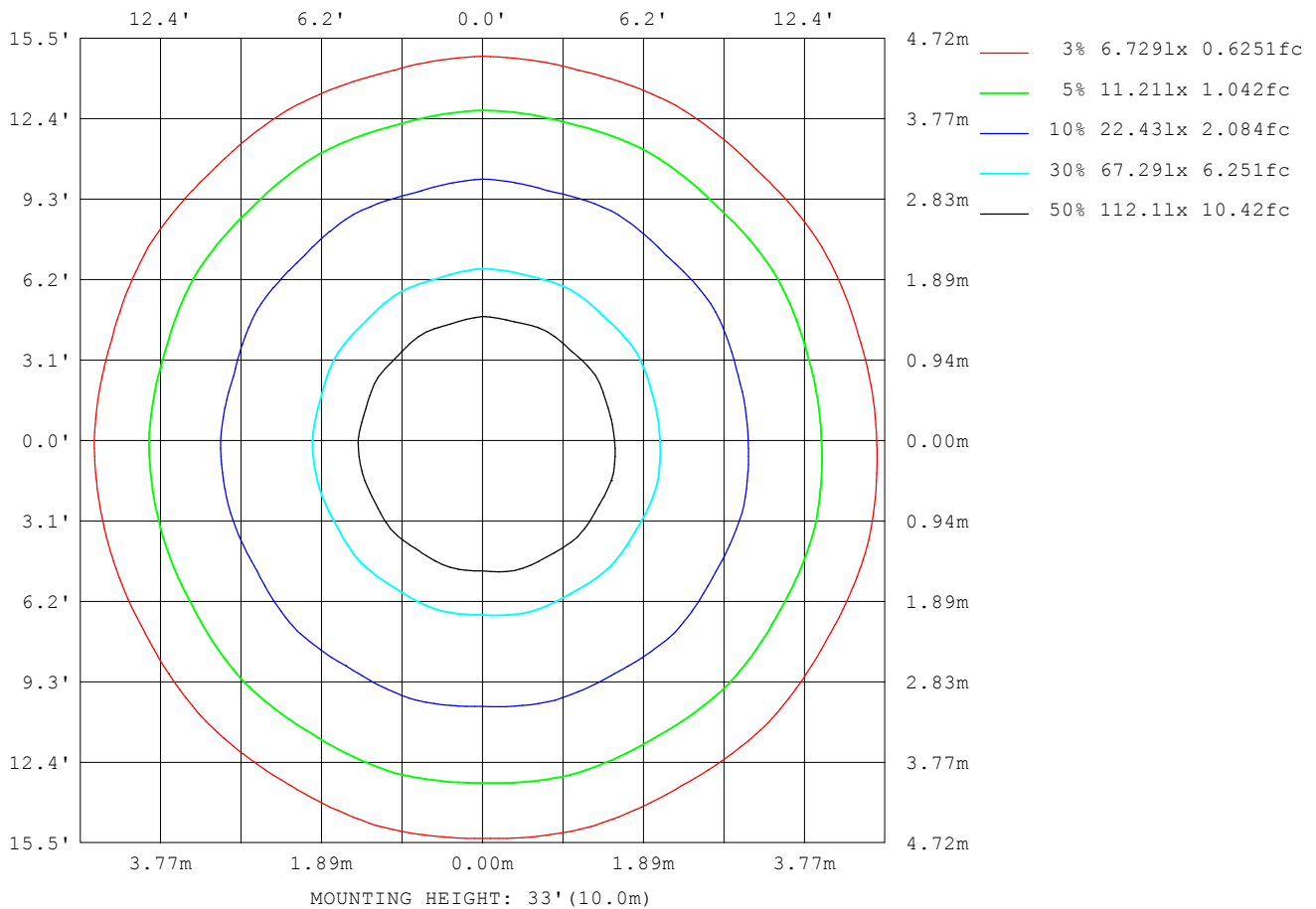
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:37.90W PF:0.9600 Freq:50.00Hz Lamp Flux:3220.84x1 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:37.90W PF:0.9600 Freq:50.00Hz Lamp Flux:3220.84x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:75	Shielding Angle:

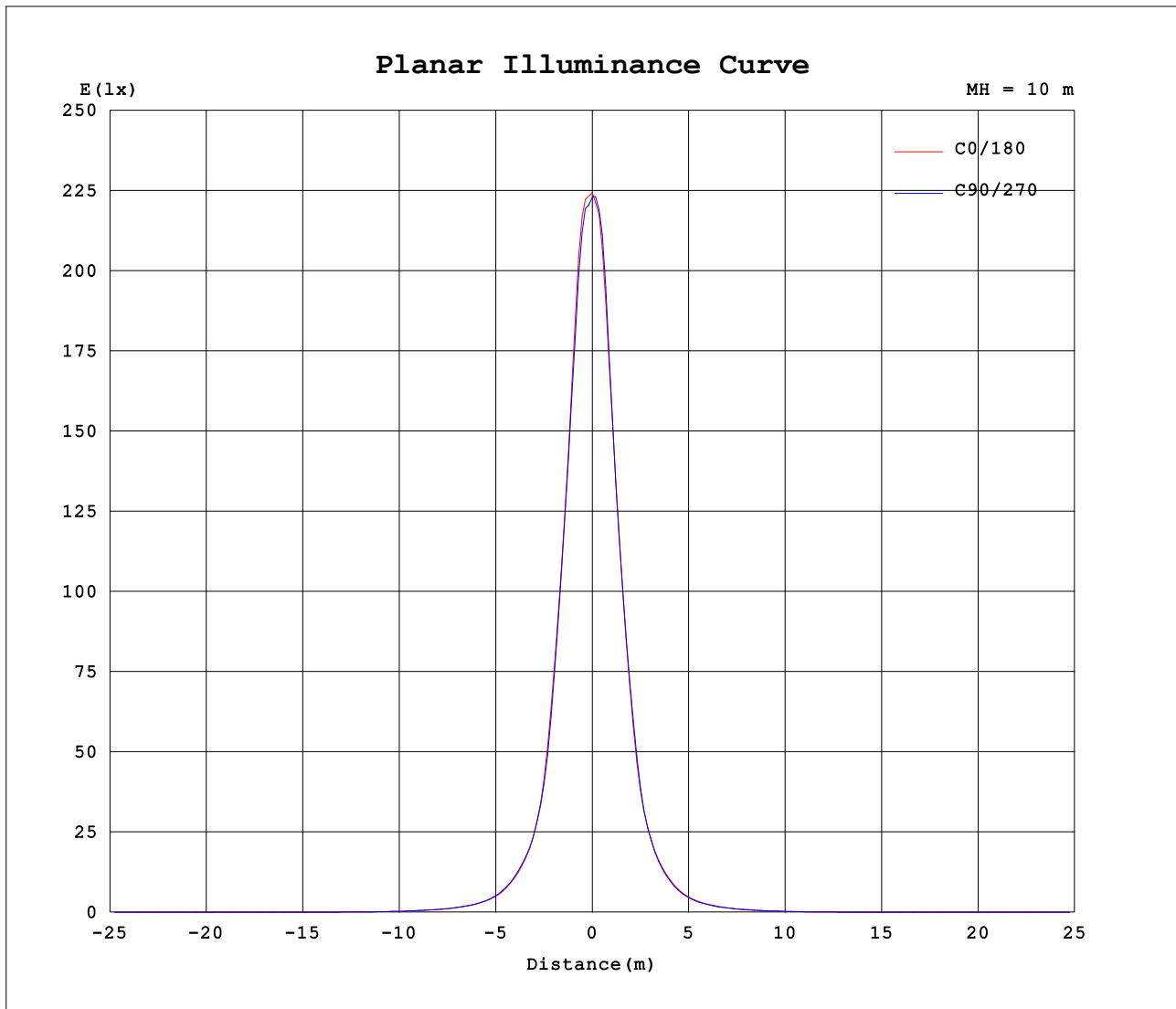
AvgL	cd/m2
L_0~180 (65) av	4020
L_0~180 (75) av	3468
L_0~180 (85) av	6418
L_90~270 (65) av	4069
L_90~270 (75) av	3554
L_90~270 (85) av	6452
L_45 (65) av	4008
L_45 (75) av	3462
L_45 (85) av	6494

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:

```