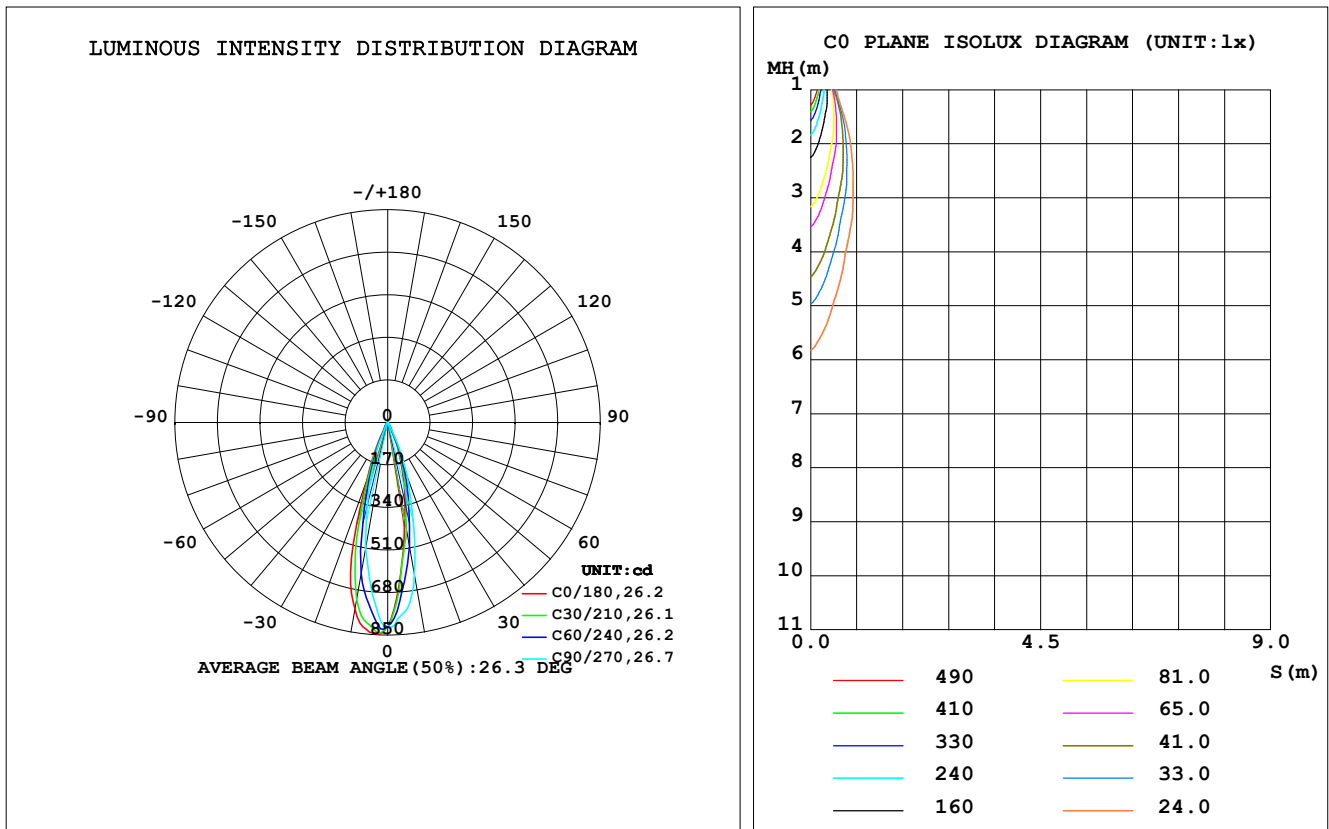


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:2.8800V I:0.5070A P:1.4600W PF:1.0000 Freq:0Hz UTHDi:0% ITHDi:0% Lamp Flux:222.752x1 lm					
NAME: 600-033		TYPE:		WEIGHT:	
SPEC.: 5000K		DIM.:		SERIAL No.: 1	
MFR.: EVERFINE		SUR.: 0.2543		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 152.57 lm/W
MODEL	600-033	I _{max} (cd)	846.9	S/MH (C0/180)	0.51	
NOMINAL POWER (W)	1.46	LOR (%)	100.0	S/MH (C90/270)	0.41	
RATED VOLTAGE (V)	2.88	TOTAL FLUX (lm)	222.75	η UP, DN (C0-180)	0.0, 53.2	
NOMINAL FLUX (lm)	222.752	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 46.8	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE (V)	2.88	η down (%)	100.0	CIBSE SHR MAX	1.00	



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2020-04-27

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.426
Humidity: 65.0%
Test Distance: 8.690m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

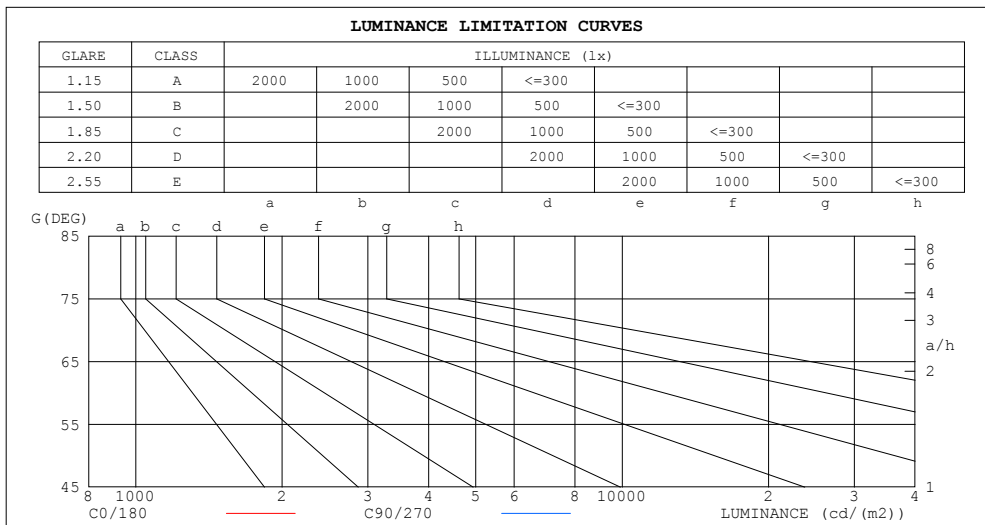
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	390.8	458.3	616.8	737.8	758.0	671.4	508.1	398.5	0- 10	64.05	64.05	28.8,28.8
20	140.2	167.0	228.5	271.1	241.6	199.0	150.6	138.2	10- 20	101.8	165.9	74.5,74.5
30	23.45	24.99	27.56	34.10	32.73	24.26	21.26	20.80	20- 30	37.15	203.0	91.1,91.1
40	8.562	9.655	10.99	14.17	14.49	11.30	9.552	8.114	30- 40	10.20	213.2	95.7,95.7
50	3.664	4.137	4.628	5.030	4.944	4.053	3.453	3.305	40- 50	5.508	218.7	98.2,98.2
60	1.602	1.698	1.696	1.585	1.787	1.669	1.470	1.488	50- 60	2.313	221.0	99.2,99.2
70	0.8226	0.8270	0.8359	0.7612	0.8156	0.7907	0.6667	0.7378	60- 70	1.158	222.2	99.8,99.8
80	0.2500	0.2237	0.2807	0.2120	0.2113	0.2118	0.1184	0.2003	70- 80	0.4886	222.7	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.0641	222.8	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:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-04-27

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:2.8800V I:0.5070A P:1.4600W PF:1.0000 Freq:0Hz UTHDi:0% ITHDi:0% Lamp Flux:222.752x1 lm		
NAME: 600-033	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.: 0.2543	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3	4
80	6	6
75	8	8
70	9	10
65	11	11
60	13	13
55	16	19
50	22	28
45	32	43

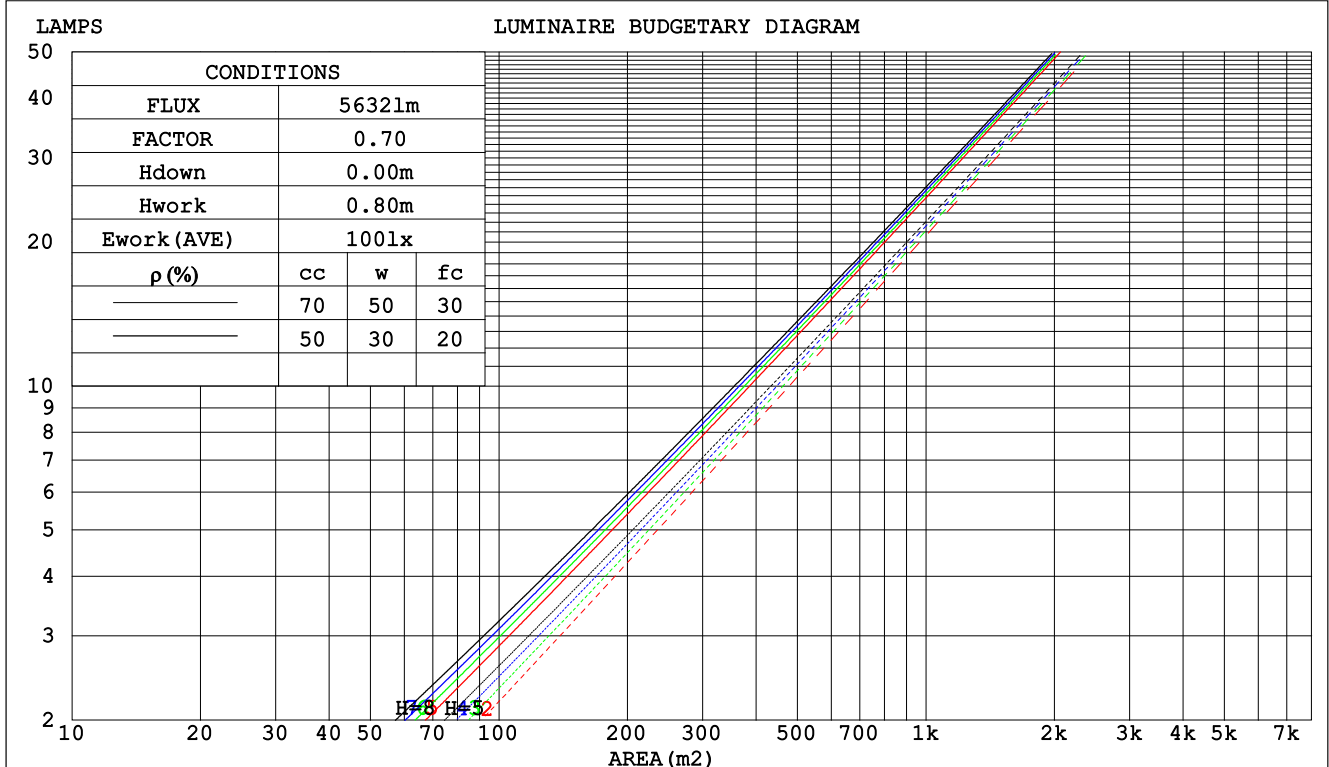
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-04-27

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 8.690m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:2.8800V I:0.5070A P:1.4600W PF:1.0000 Freq:0Hz UTHDi:0% ITHDi:0% Lamp Flux:222.752x1 lm		
NAME: 600-033	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.: 0.2543	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.12	1.10	1.08	1.10	1.08	1.07	1.06	1.05	1.03	1.03	1.01	1.00	.99	.98	.98	.96
2.0	1.07	1.03	1.01	1.05	1.02	.99	1.02	.99	.97	.99	.97	.95	.96	.95	.93	.92
3.0	1.01	.98	.94	1.00	.97	.94	.98	.95	.92	.95	.93	.91	.93	.91	.89	.88
4.0	.97	.93	.89	.96	.92	.89	.94	.90	.88	.92	.89	.87	.90	.88	.86	.85
5.0	.93	.88	.85	.92	.88	.85	.90	.87	.84	.89	.86	.83	.87	.85	.83	.81
6.0	.89	.85	.81	.89	.84	.81	.87	.83	.81	.86	.83	.80	.85	.82	.80	.79
7.0	.86	.81	.78	.85	.81	.78	.84	.80	.78	.83	.80	.77	.82	.79	.77	.76
8.0	.83	.78	.75	.82	.78	.75	.82	.78	.75	.81	.77	.75	.80	.77	.74	.73
9.0	.80	.76	.73	.80	.76	.73	.79	.75	.72	.78	.75	.72	.77	.74	.72	.71
10.0	.78	.73	.70	.77	.73	.70	.77	.73	.70	.76	.72	.70	.75	.72	.70	.69



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-04-27

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:2.8800V I:0.5070A P:1.4600W PF:1.0000 Freq:0Hz UTHDi:0% ITHDi:0% Lamp Flux:222.752x1 lm		
NAME: 600-033	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.: 0.2543	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.147	.084	.026	.140	.080	.025	.128	.073	.023	.117	.067	.022	.106	.061	.020	
2.0	.137	.075	.023	.132	.073	.022	.122	.068	.021	.112	.063	.020	.103	.058	.018	
3.0	.129	.068	.020	.124	.066	.020	.115	.062	.019	.107	.059	.018	.100	.055	.017	
4.0	.121	.063	.018	.117	.061	.018	.110	.058	.017	.103	.055	.017	.096	.052	.016	
5.0	.114	.058	.017	.111	.057	.017	.104	.054	.016	.099	.052	.015	.093	.050	.015	
6.0	.108	.054	.015	.105	.053	.015	.100	.051	.015	.095	.049	.014	.090	.047	.014	
7.0	.103	.051	.014	.100	.050	.014	.095	.048	.014	.091	.047	.014	.087	.045	.013	
8.0	.098	.048	.013	.096	.047	.013	.091	.046	.013	.087	.044	.013	.084	.043	.013	
9.0	.093	.045	.013	.092	.045	.013	.088	.043	.012	.084	.042	.012	.081	.041	.012	
10.0	.090	.043	.012	.088	.042	.012	.084	.041	.012	.081	.040	.011	.078	.039	.011	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	.152	.133	.117	.130	.114	.101	.089	.079	.070	.051	.046	.041	.016	.015	.013	
3.0	.137	.113	.094	.118	.098	.082	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.125	.098	.077	.107	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.115	.086	.064	.099	.074	.056	.068	.052	.040	.039	.031	.023	.013	.010	.008	
6.0	.106	.076	.054	.091	.066	.047	.063	.046	.033	.037	.027	.020	.012	.009	.007	
7.0	.099	.068	.046	.085	.059	.040	.059	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.093	.061	.040	.080	.053	.035	.055	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.087	.056	.035	.075	.048	.030	.052	.034	.021	.030	.020	.013	.010	.007	.004	
10.0	.082	.051	.030	.071	.044	.027	.049	.031	.019	.029	.018	.011	.009	.006	.004	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-04-27

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:2.8800V I:0.5070A P:1.4600W PF:1.0000 Freq:0Hz UTHDi:0% ITHDi:0% Lamp Flux:222.752x1 lm										
NAME: 600-033					TYPE:			WEIGHT:		
SPEC.: 5000K					DIM.:			SERIAL No.: 1		
MFR.: EVERFINE					SUR.: 0.2543			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	-8.8	-8.0	-8.5	-7.9	-7.7	-7.7	-7.0	-7.5	-6.8	-6.7
3H	-8.5	-7.8	-8.2	-7.6	-7.4	-7.5	-6.8	-7.2	-6.6	-6.4
4H	-8.4	-7.7	-8.1	-7.5	-7.3	-7.4	-6.8	-7.1	-6.6	-6.4
6H	-8.3	-7.7	-8.1	-7.5	-7.3	-7.4	-6.8	-7.1	-6.6	-6.3
8H	-8.4	-7.8	-8.1	-7.5	-7.3	-7.4	-6.8	-7.1	-6.6	-6.3
12H	-8.4	-7.8	-8.1	-7.6	-7.3	-7.4	-6.9	-7.1	-6.6	-6.4
4H 2H	-8.6	-8.0	-8.4	-7.8	-7.6	-7.7	-7.0	-7.4	-6.8	-6.6
3H	-8.2	-7.7	-7.9	-7.4	-7.1	-7.3	-6.8	-7.0	-6.5	-6.3
4H	-8.1	-7.6	-7.7	-7.3	-7.0	-7.2	-6.7	-6.9	-6.4	-6.1
6H	-8.0	-7.6	-7.7	-7.3	-6.9	-7.2	-6.7	-6.8	-6.4	-6.1
8H	-8.1	-7.6	-7.7	-7.3	-6.9	-7.2	-6.8	-6.8	-6.4	-6.1
12H	-8.1	-7.7	-7.7	-7.3	-7.0	-7.2	-6.9	-6.8	-6.5	-6.1
8H 4H	-8.1	-7.7	-7.7	-7.3	-7.0	-7.3	-6.8	-6.9	-6.5	-6.1
6H	-8.0	-7.7	-7.6	-7.3	-6.9	-7.2	-6.8	-6.8	-6.5	-6.0
8H	-8.0	-7.7	-7.6	-7.3	-6.8	-7.2	-6.9	-6.7	-6.5	-6.0
12H	-8.1	-7.8	-7.6	-7.3	-6.9	-7.2	-7.0	-6.8	-6.5	-6.1
12H 4H	-8.1	-7.7	-7.7	-7.4	-7.0	-7.3	-6.9	-6.9	-6.6	-6.2
6H	-8.0	-7.7	-7.6	-7.3	-6.9	-7.2	-6.9	-6.8	-6.5	-6.1
8H	-8.0	-7.8	-7.6	-7.3	-6.9	-7.2	-7.0	-6.8	-6.5	-6.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.3 / - 1.8					+ 1.4 / - 1.9				
1.5H	+ 1.4 / - 1.5					+ 2.1 / - 1.9				
2.0H	+ 2.5 / - 1.5					+ 3.3 / - 2.0				

CIE Pub.117, 222.8 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -5.2)
Area: 0.2543 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-04-27

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:2.8800V I:0.5070A P:1.4600W PF:1.0000 Freq:0Hz UTHDi:0% ITHDi:0% Lamp Flux:222.752x1 lm		
NAME: 600-033	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.: 0.2543	Shielding Angle:

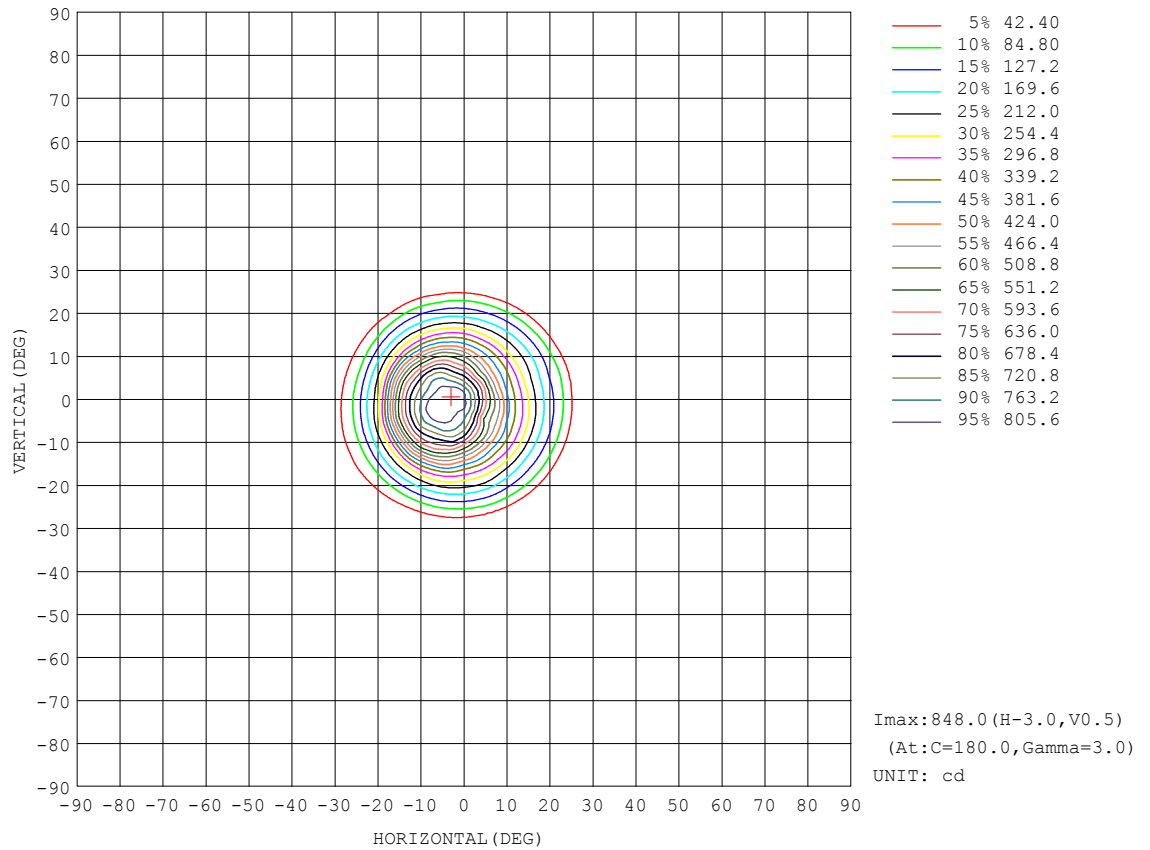
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	79	88	83	79	88	82	79	76
0.80	96	91	87	95	90	87	94	90	86	83
1.00	100	95	91	99	94	91	98	94	91	87
1.25	104	99	96	103	99	95	101	97	95	91
1.50	107	102	99	105	101	98	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	107	105	107	105	103	97
4.00	114	111	109	112	110	108	108	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:
Test Date: 2020-04-27

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.426
Humidity: 65.0%
Test Distance: 8.690m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:2.8800V I:0.5070A P:1.4600W PF:1.0000 Freq:0Hz UTHDi:0% ITHDi:0% Lamp Flux:222.752x1 lm		
NAME: 600-033	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.: 0.2543	Shielding Angle:

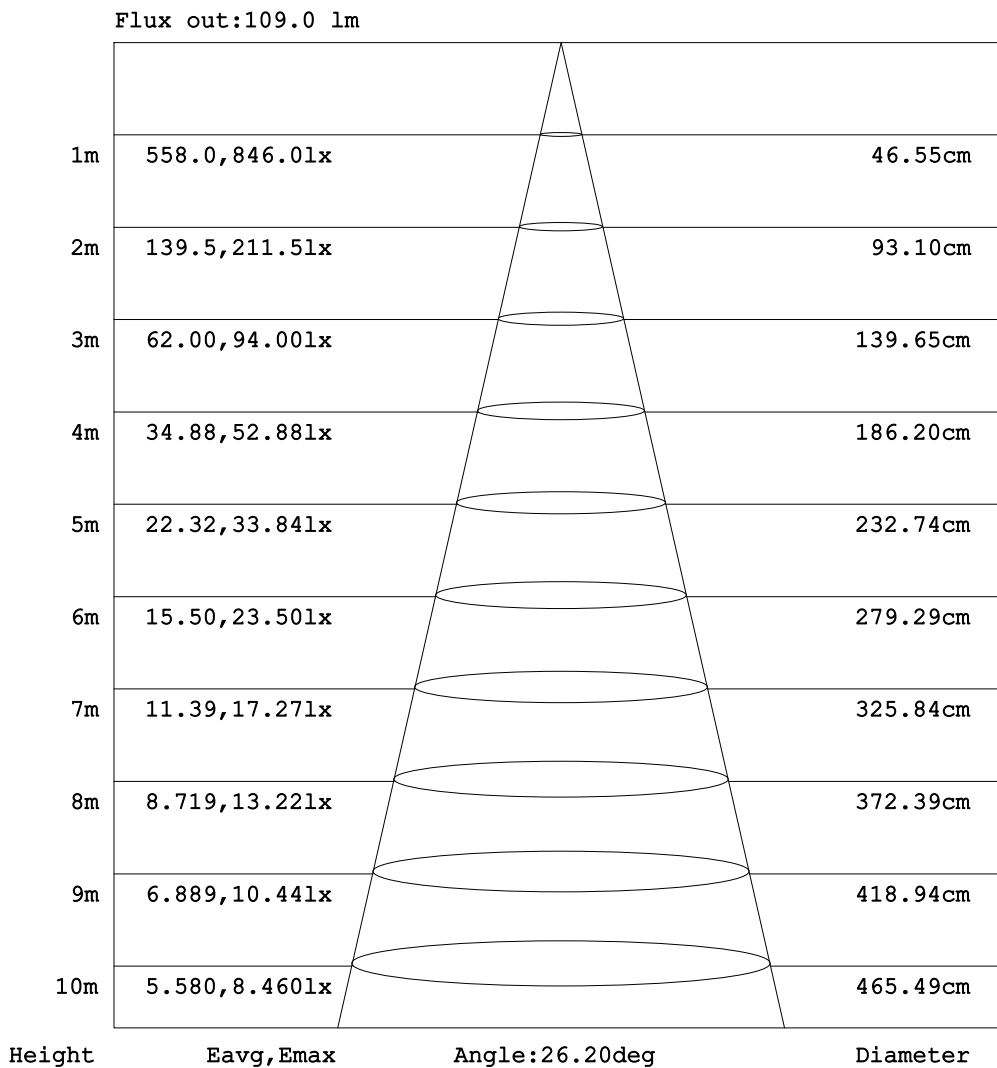


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-04-27

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

AAI Figure

Test:U:2.8800V I:0.5070A P:1.4600W PF:1.0000 Freq:0Hz UTHDi:0% ITHDi:0% Lamp Flux:222.752x1 lm		
NAME: 600-033	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.: 0.2543	Shielding Angle:



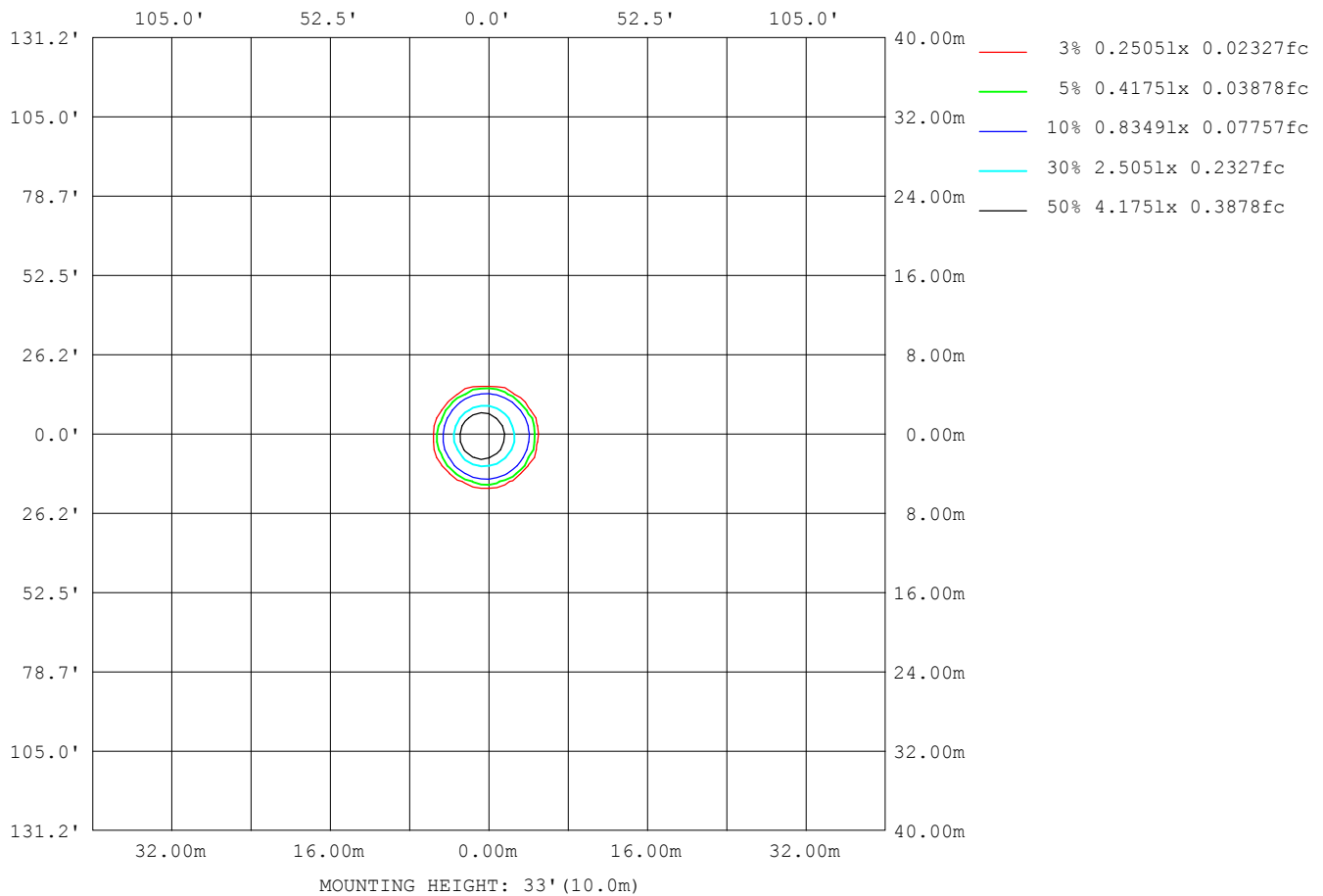
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-04-27

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 8.690m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:2.8800V I:0.5070A P:1.4600W PF:1.0000 Freq:0Hz UTHDi:0% ITHDi:0% Lamp Flux:222.752x1 lm		
NAME: 600-033	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.: 0.2543	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-04-27

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.690m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:2.8800V I:0.5070A P:1.4600W PF:1.0000 Freq:0Hz UTHDi:0% ITHDi:0% Lamp Flux:222.752x1 lm		
NAME: 600-033	TYPE:	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.: 0.2543	Shielding Angle:

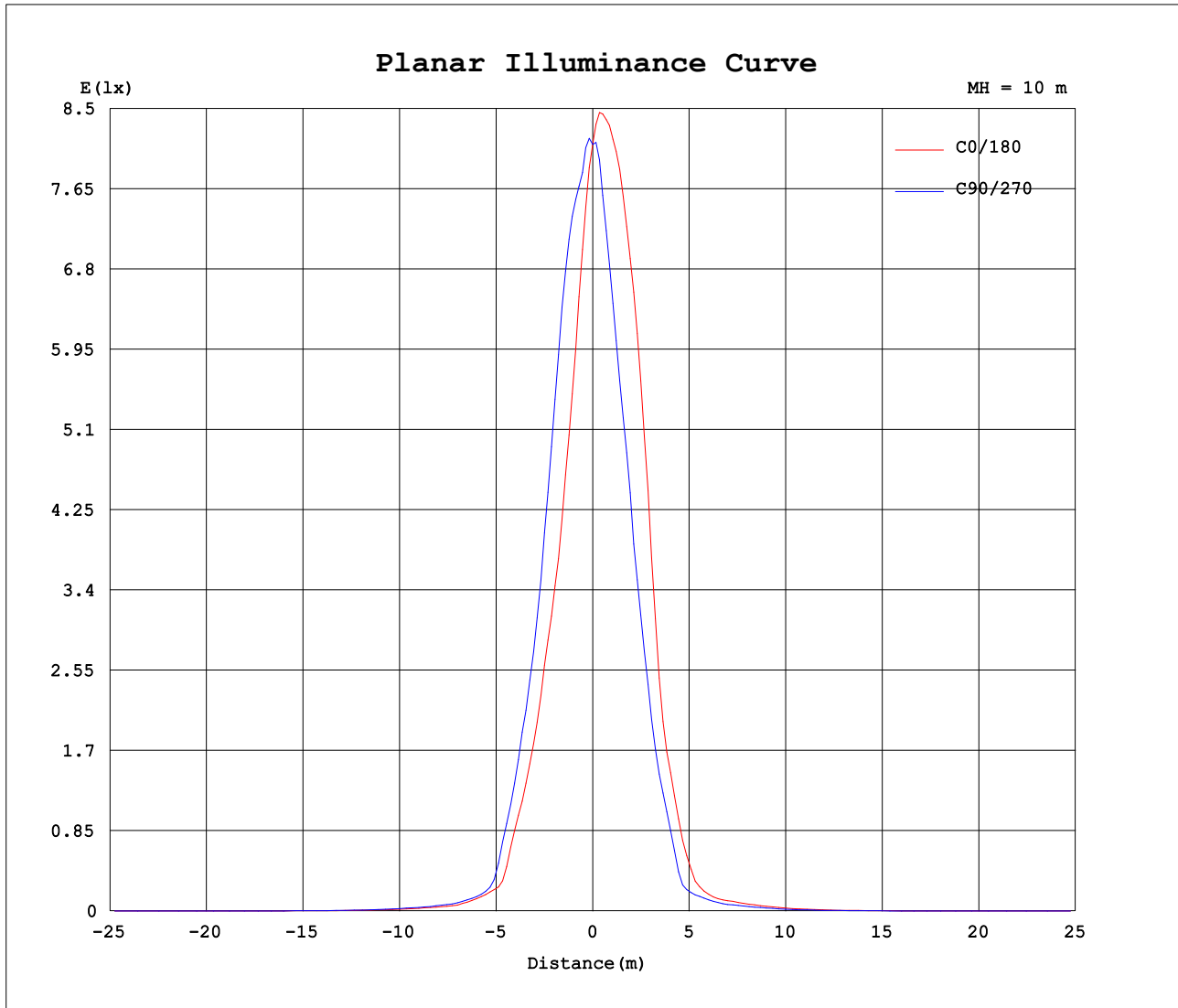
AvgL	cd/m2
L_0~180 (65) av	11
L_0~180 (75) av	7
L_0~180 (85) av	1
L_90~270 (65) av	10
L_90~270 (75) av	7
L_90~270 (85) av	2
L_45 (65) av	11
L_45 (75) av	7
L_45 (85) av	1

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-04-27

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-04-27

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 8.690m [K=1.0000]
 Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.690m [K=1.0000]
Remarks:

```