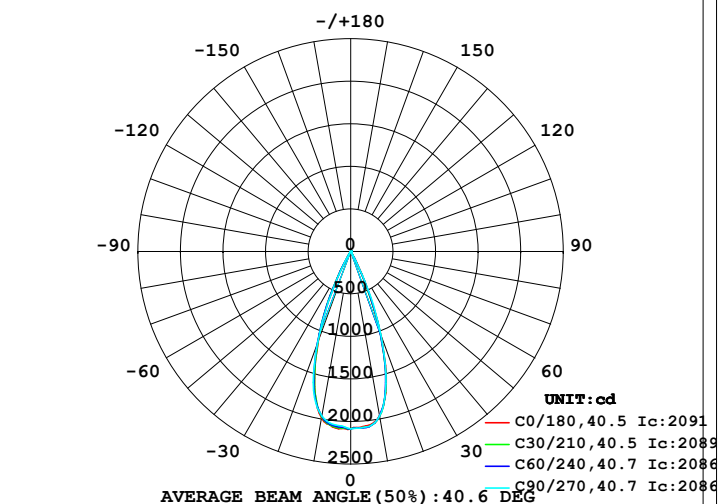


## LUMINAIRE PHOTOMETRIC TEST REPORT

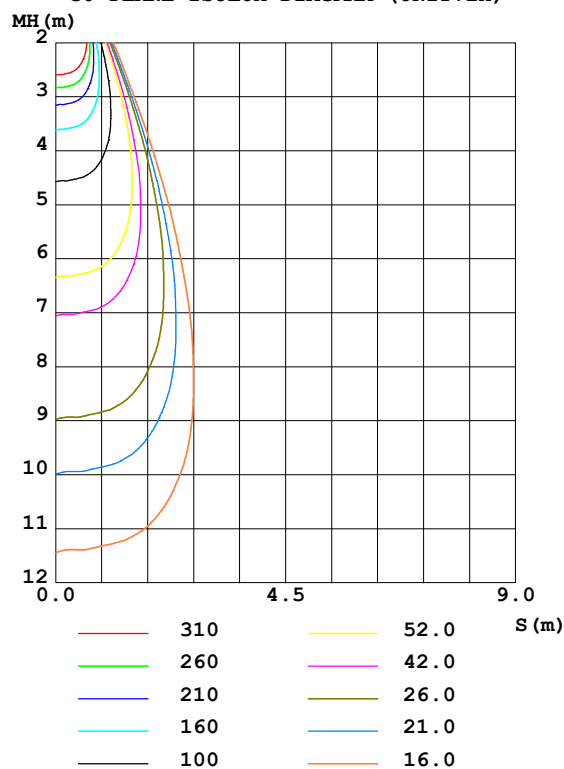
Test:U:225.2V I:0.0580A P:10.30W PF:0.7920 Freq:50.00Hz Lamp Flux:871.787x1 lm		
NAME: REG2075RF-11G40-F	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:66	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 84.64 lm/W
MODEL	4000K CRI90	I <sub>max</sub> (cd)	2091	S/MH(C0/180)	0.62	
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.62	
RATED VOLTAGE(V)	226	TOTAL FLUX(lm)	871.79	η UP,DN(C0-180)	0.0,48.9	
NOMINAL FLUX(lm)	871.787	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.1	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	225.2	η down(%)	100.0	CIBSE SHR MAX	0.60	

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:2020-04-15

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
 Humidity:65.0%  
 Test Distance:7.240m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1962	1971	1965	1982	1985	1964	1962	1952	0- 10	194.4	194.4	22.3,22.3
20	1025	1041	1038	1100	1114	1115	1136	1070	10- 20	439.4	633.8	72.7,72.7
30	70.53	66.33	60.99	77.49	76.09	109.3	99.83	70.41	20- 30	221.1	854.8	98.1,98.1
40	5.911	5.568	5.913	7.219	8.062	7.848	7.820	7.245	30- 40	14.10	868.9	99.7,99.7
50	0.5967	0.4315	0.6501	1.141	1.475	1.484	1.406	1.192	40- 50	2.601	871.5	100,100
60	0	0	0	0	0	0	0	0	50- 60	0.1692	871.7	100,100
70	0	0	0	0	0	0	0	0	60- 70	0	871.7	100,100
80	0.0349	0.0627	0.0387	0.0355	0	0	0	0	70- 80	0.0027	871.7	100,100
90	0.2454	0.2500	0.2466	0.2511	0	0	0	0	80- 90	0.0782	871.8	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		

Conical surface Flux(90deg): 870.71 lm

%lum = 99.9%

%lamp = 99.9%

Conical surface Flux(120deg): 871.71 lm

%lum = 100.0%

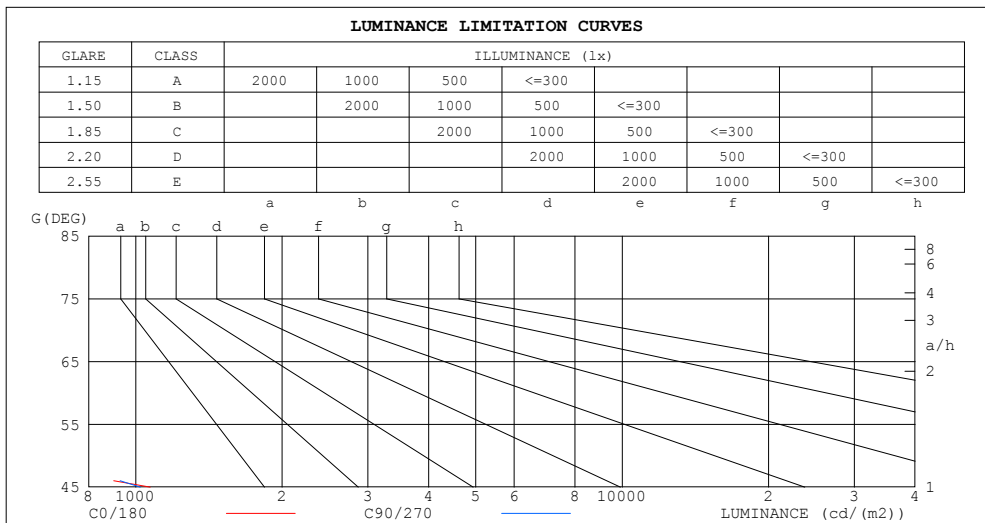
%lamp = 100.0%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:AE  
 Test Date:2020-04-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
 Humidity:65.0%  
 Test Distance:7.240m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:225.2V I:0.0580A P:10.30W PF:0.7920 Freq:50.00Hz Lamp Flux:871.787x1 lm		
NAME: REG2075RF-11G40-F	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:66	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	432	433
80	59	65
75	0	0
70	0	0
65	0	0
60	0	0
55	0	0
50	273	296
45	1071	1022

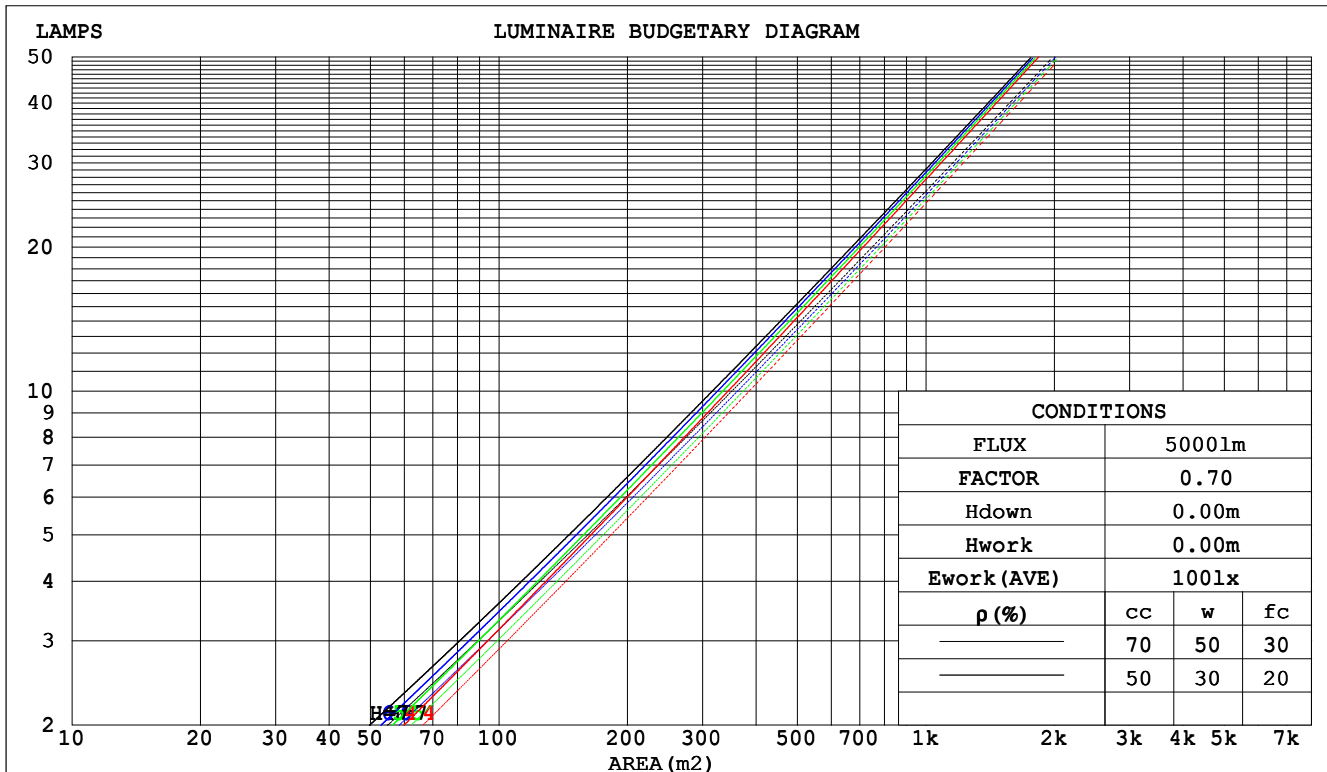
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-04-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:225.2V I:0.0580A P:10.30W PF:0.7920 Freq:50.00Hz Lamp Flux:871.787x1 lm		
NAME: REG2075RF-11G40-F	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:66	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	.00
1.0	1.13	1.11	1.09	1.10	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.01	.99	.99	.98	.96
2.0	1.07	1.04	1.01	1.05	1.02	.00	1.02	.00	.98	.99	.97	.96	.96	.95	.94	.92
3.0	1.02	.98	.95	1.01	.97	.94	.98	.95	.93	.96	.93	.91	.94	.92	.90	.89
4.0	.97	.93	.90	.96	.92	.89	.94	.91	.88	.92	.90	.87	.91	.88	.86	.85
5.0	.93	.89	.86	.92	.88	.85	.91	.87	.85	.89	.86	.84	.88	.85	.83	.82
6.0	.90	.85	.82	.89	.85	.82	.88	.84	.81	.86	.83	.81	.85	.82	.80	.79
7.0	.86	.82	.78	.86	.81	.78	.84	.81	.78	.83	.80	.78	.82	.79	.77	.76
8.0	.83	.79	.75	.83	.78	.75	.82	.78	.75	.81	.77	.75	.80	.77	.74	.73
9.0	.80	.76	.73	.80	.75	.72	.79	.75	.72	.78	.75	.72	.77	.74	.72	.71
10.0	.77	.73	.70	.77	.73	.70	.76	.72	.70	.76	.72	.70	.75	.72	.69	.68



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:AE  
 Test Date:2020-04-15

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
 Humidity:65.0%  
 Test Distance:7.240m [K=1.0000]  
 Remarks:

### WEC AND CCEC

Test:U:225.2V I:0.0580A P:10.30W PF:0.7920 Freq:50.00Hz Lamp Flux:871.787x1 lm					
NAME: REG2075RF-11G40-F			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:66		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	.144	.082	.026	.138	.078	.025	.125	.072	.023	.114	.066	.021	.103	.060	.019	
2.0	.134	.074	.023	.129	.071	.022	.119	.066	.020	.109	.061	.019	.100	.057	.018	
3.0	.126	.067	.020	.121	.065	.020	.113	.061	.019	.105	.057	.018	.097	.054	.017	
4.0	.119	.062	.018	.115	.060	.018	.107	.057	.017	.101	.054	.016	.094	.051	.016	
5.0	.112	.057	.017	.109	.056	.016	.103	.054	.016	.097	.051	.015	.092	.049	.015	
6.0	.107	.054	.015	.104	.053	.015	.099	.051	.015	.094	.049	.014	.089	.047	.014	
7.0	.102	.050	.014	.100	.050	.014	.095	.048	.014	.090	.046	.013	.086	.045	.013	
8.0	.098	.048	.013	.096	.047	.013	.091	.046	.013	.087	.044	.013	.084	.043	.013	
9.0	.094	.045	.013	.092	.045	.013	.088	.044	.012	.085	.042	.012	.081	.041	.012	
10.0	.090	.043	.012	.089	.043	.012	.085	.042	.012	.082	.041	.012	.079	.040	.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	.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	.115	.086	.065	.098	.074	.056	.068	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.106	.076	.055	.091	.066	.047	.063	.046	.034	.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	.049	.030	.052	.034	.021	.030	.020	.013	.010	.007	.004	
10.0	.083	.051	.030	.071	.045	.027	.049	.031	.019	.029	.019	.011	.009	.006	.004	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-04-15

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:225.2V I:0.0580A P:10.30W PF:0.7920 Freq:50.00Hz Lamp Flux:871.787x1 lm											
NAME: REG2075RF-11G40-F					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.:					SUR.:66			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	0.3	1.0	0.5	1.2	1.3	-0.0	0.7	0.2	0.8	1.0	
	3H	0.2	0.8	0.4	1.0	1.2	-0.2	0.5	0.1	0.7	0.9
	4H	0.1	0.7	0.3	0.9	1.1	-0.2	0.4	0.0	0.6	0.8
	6H	0.0	0.6	0.3	0.8	1.1	-0.3	0.3	-0.0	0.5	0.7
	8H	-0.0	0.5	0.3	0.8	1.0	-0.4	0.2	-0.1	0.5	0.7
	12H	-0.0	0.5	0.3	0.8	1.0	-0.3	0.2	-0.0	0.5	0.7
4H	2H	0.1	0.7	0.3	0.9	1.1	-0.2	0.4	0.0	0.6	0.8
	3H	-0.1	0.5	0.2	0.7	1.0	-0.4	0.1	-0.1	0.4	0.6
	4H	-0.2	0.3	0.2	0.6	0.9	-0.5	-0.0	-0.2	0.3	0.6
	6H	-0.3	0.2	0.1	0.5	0.8	-0.6	-0.2	-0.2	0.2	0.5
	8H	-0.3	0.1	0.1	0.5	0.8	-0.6	-0.2	-0.2	0.1	0.5
	12H	-0.2	0.1	0.2	0.5	0.9	-0.6	-0.2	-0.2	0.2	0.6
8H	4H	-0.3	0.1	0.1	0.4	0.8	-0.7	-0.3	-0.3	0.1	0.4
	6H	-0.4	-0.1	-0.0	0.3	0.7	-0.8	-0.4	-0.3	-0.0	0.4
	8H	-0.4	-0.1	0.0	0.3	0.7	-0.8	-0.5	-0.3	-0.1	0.4
	12H	-0.3	-0.0	0.2	0.4	0.9	-0.6	-0.3	-0.1	0.1	0.6
12H	4H	-0.4	-0.0	0.0	0.4	0.7	-0.7	-0.4	-0.3	0.0	0.4
	6H	-0.5	-0.2	-0.0	0.2	0.7	-0.8	-0.5	-0.4	-0.1	0.3
	8H	-0.5	-0.2	-0.0	0.2	0.7	-0.8	-0.5	-0.3	-0.1	0.4
Variations with the observer position at spacings:											
S = 1.0H	+ 3.5 / - 9.6					+ 3.4 / - 9.5					
1.5H	+ 5.8 / -10.6					+ 5.7 / -10.7					
2.0H	+ 7.0 / - 4.6					+ 6.6 / - 4.7					

CIE Pub.117, 871.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.5)

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-04-15

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:225.2V I:0.0580A P:10.30W PF:0.7920 Freq:50.00Hz Lamp Flux:871.787x1 lm		
NAME: REG2075RF-11G40-F	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:66	Shielding Angle:

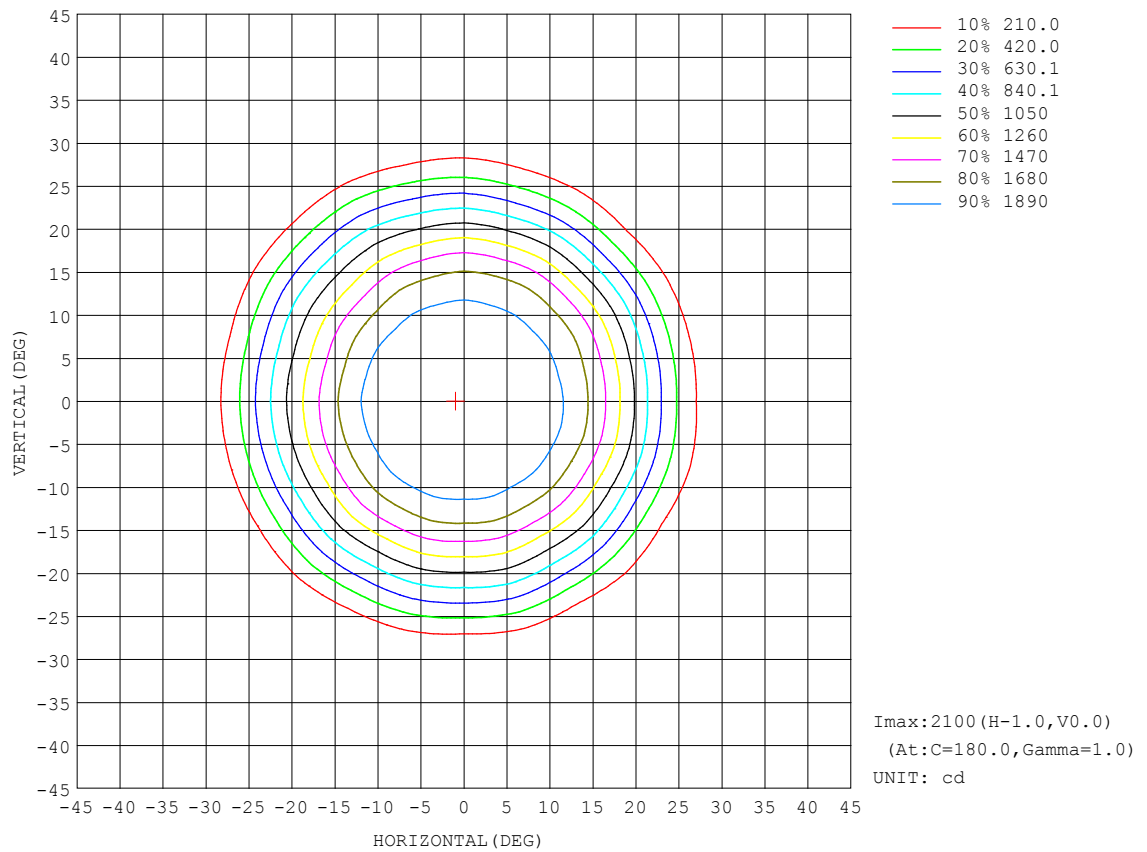
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	86	82	91	86	82	90	85	82	79
0.80	98	93	90	98	93	90	97	92	89	86
1.00	102	97	94	101	97	94	100	96	93	90
1.25	105	101	98	104	100	97	103	99	97	93
1.50	108	104	101	107	103	100	105	102	99	95
2.00	110	106	103	109	105	103	106	103	101	96
2.50	111	108	105	110	107	104	107	104	103	97
3.00	113	110	107	111	108	106	108	106	104	98
4.00	115	112	110	113	111	109	109	107	106	99
5.00	116	114	112	114	112	111	110	109	108	100
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:2020-04-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:225.2V I:0.0580A P:10.30W PF:0.7920 Freq:50.00Hz Lamp Flux:871.787x1 lm		
NAME: REG2075RF-11G40-F	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:66	Shielding Angle:



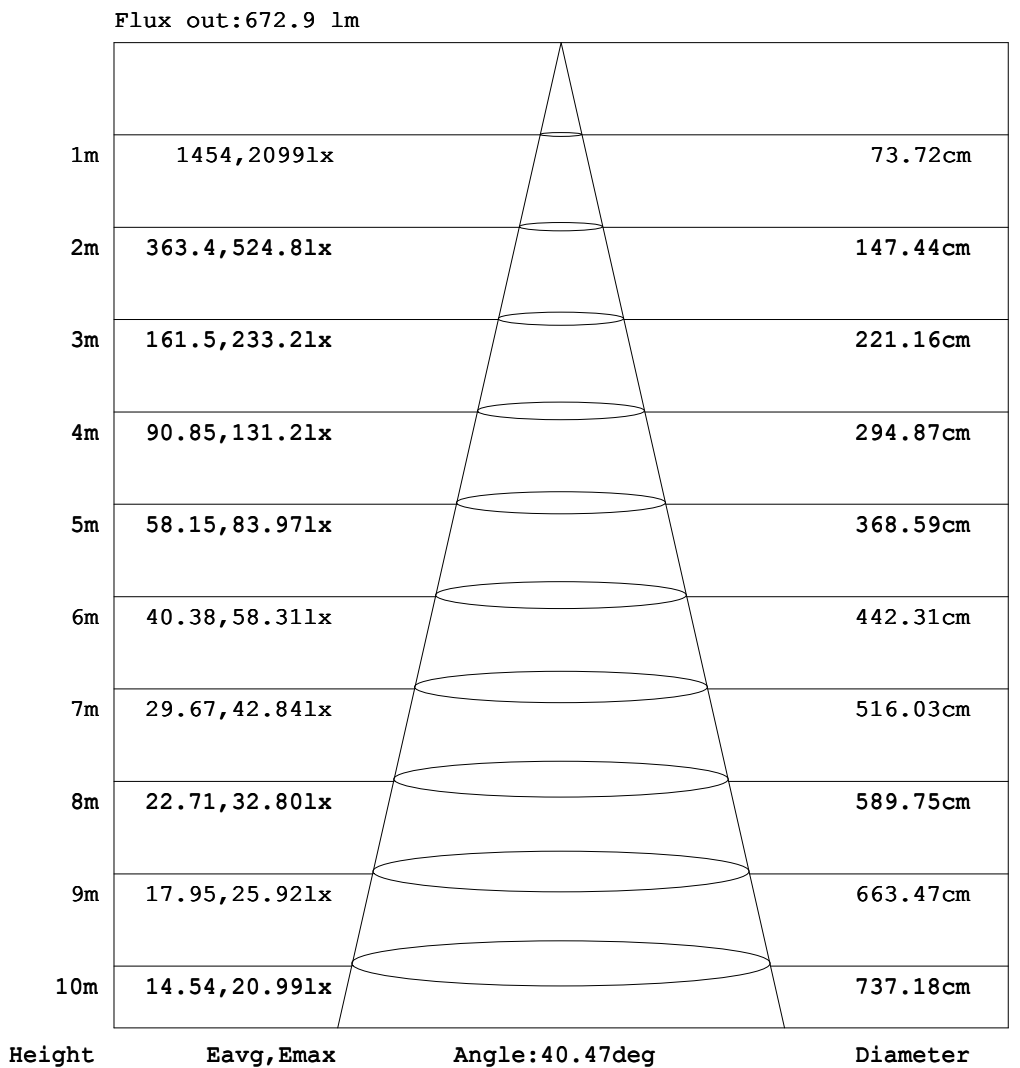
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:AE  
 Test Date:2020-04-15

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
 Humidity:65.0%  
 Test Distance:7.240m [K=1.0000]  
 Remarks:



### AAI Figure

Test:U:225.2V I:0.0580A P:10.30W PF:0.7920 Freq:50.00Hz Lamp Flux:871.787x1 lm		
NAME: REG2075RF-11G40-F	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:66	Shielding Angle:



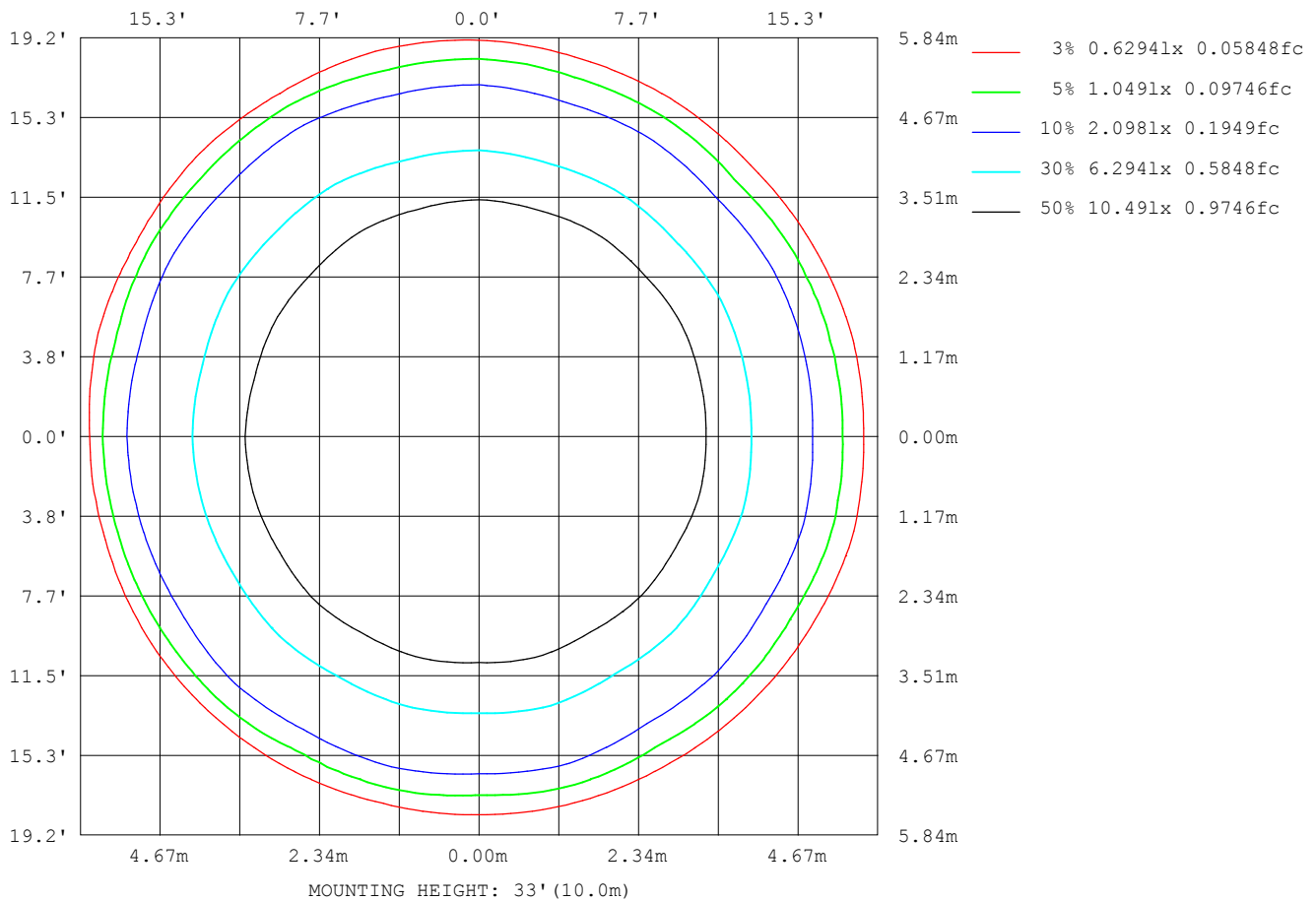
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-04-15

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

# ISOLUX DIAGRAM

Test:U:225.2V I:0.0580A P:10.30W PF:0.7920 Freq:50.00Hz Lamp Flux:871.787x1 lm		
NAME: REG2075RF-11G40-F	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:66	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-04-15

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity:65.0%  
Test Distance:7.240m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:225.2V I:0.0580A P:10.30W PF:0.7920 Freq:50.00Hz Lamp Flux:871.787x1 lm		
NAME: REG2075RF-11G40-F	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:66	Shielding Angle:

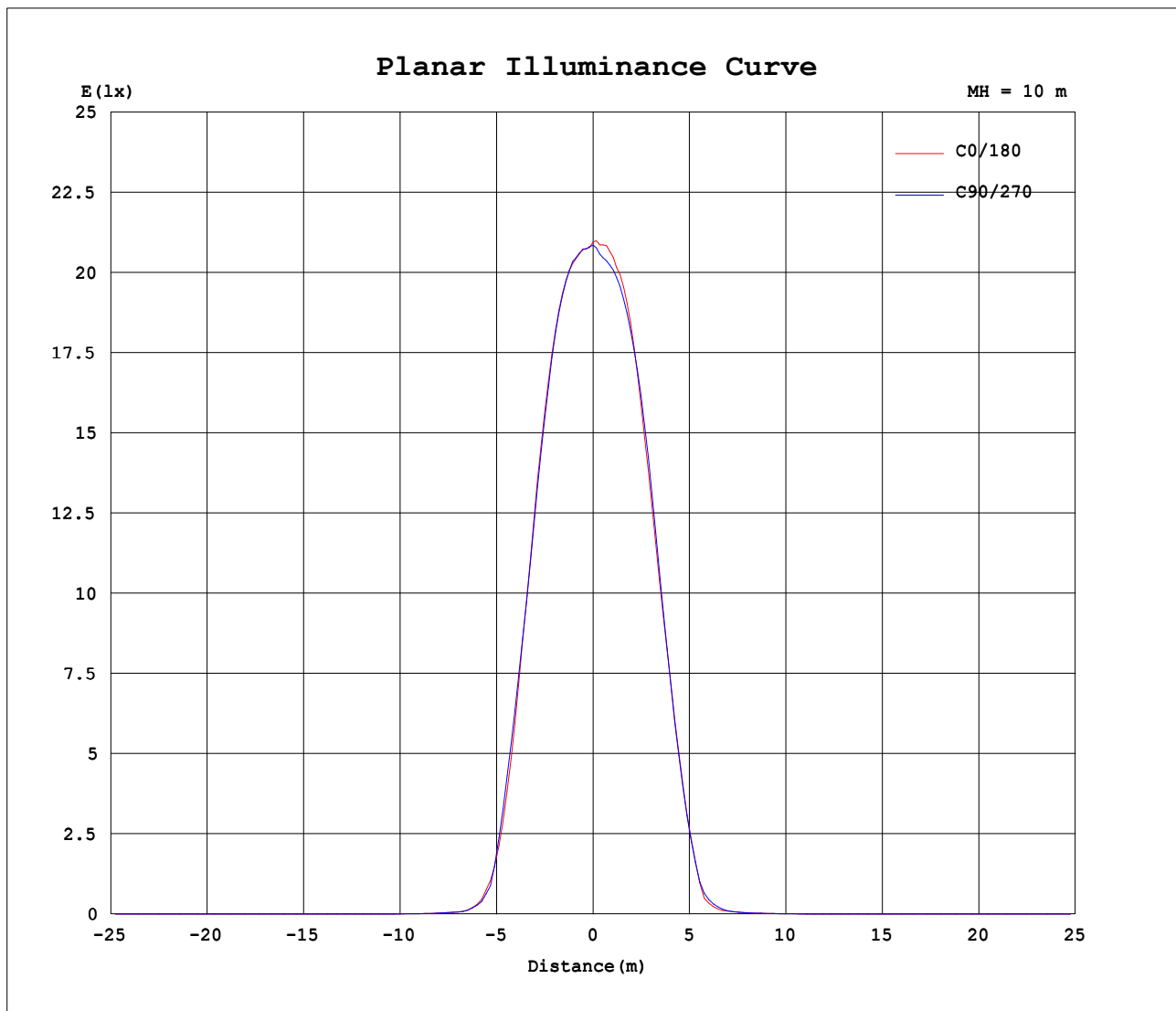
AvgL	cd/m2
L_0~180 (65) av	0
L_0~180 (75) av	0
L_0~180 (85) av	215
L_90~270 (65) av	0
L_90~270 (75) av	0
L_90~270 (85) av	217
L_45 (65) av	0
L_45 (75) av	0
L_45 (85) av	247

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:AE  
Test Date:2020-04-15

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
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: 2020-04-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity: 65.0%  
Test Distance: 7.240m [K=1.0000]  
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

```