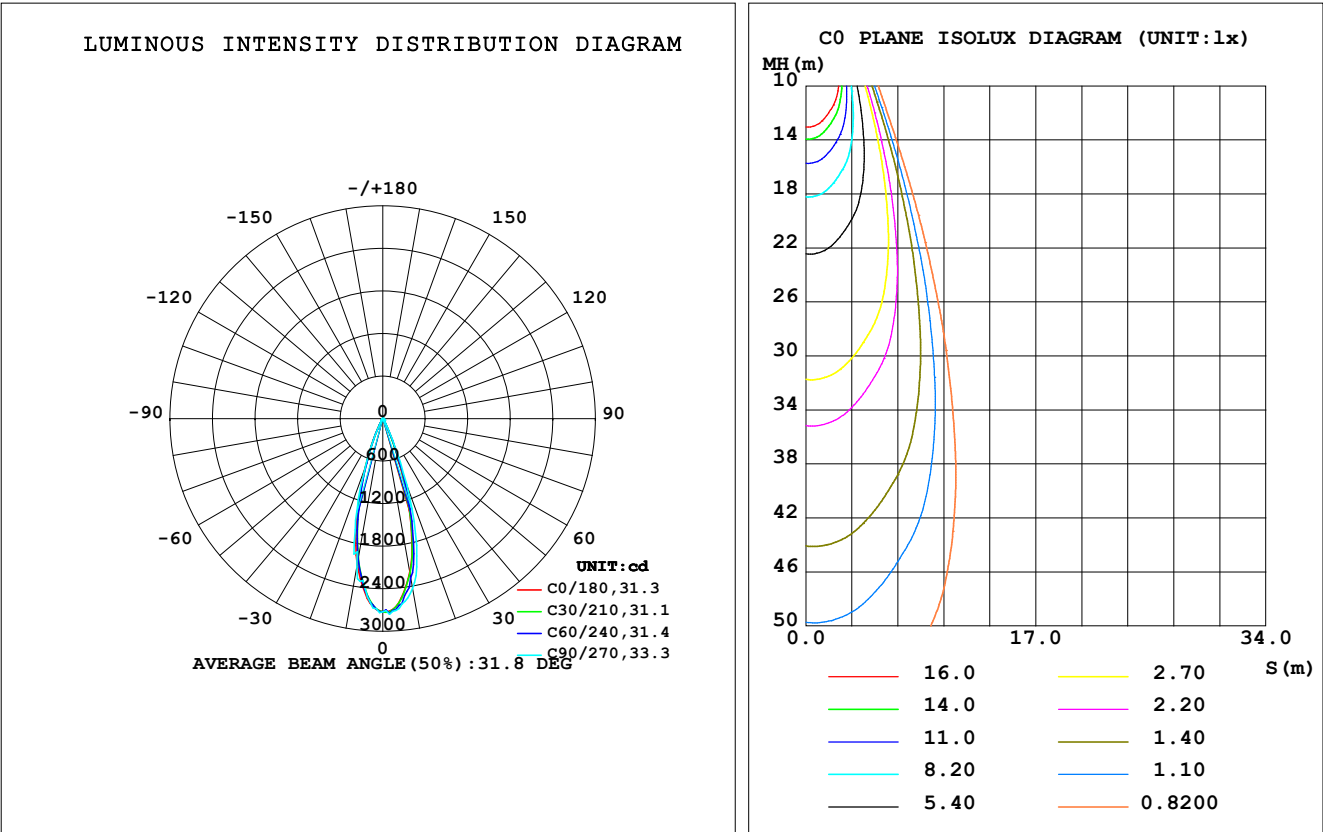


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME:	TYPE:CRI90 3000K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 77.37 lm/W
MODEL		I <sub>max</sub> (cd)	2761	S/MH (C0/180)	0.50	
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH (C90/270)	0.50	
RATED VOLTAGE(V)	120	TOTAL FLUX (lm)	866.97	η UP,DN (C0-180)	0.0,52.7	
NOMINAL FLUX(lm)	866.967	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,47.3	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE (V)	120	η down (%)	100.0	CIBSE SHR MAX	0.50	



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-09-25

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.620m [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	2202	2260	2432	2370	2084	1950	2125	2278	0- 10	234.9	234.9	27.1, 27.1
20	761.3	834.1	1006	945.9	717.6	662.2	719.1	775.3	10- 20	417.0	651.9	75.2, 75.2
30	85.81	92.69	96.62	95.58	81.11	78.82	80.10	84.65	20- 30	143.0	794.8	91.7, 91.7
40	32.42	33.05	34.99	33.77	30.20	29.01	30.80	32.80	30- 40	27.59	822.4	94.9, 94.9
50	25.00	25.43	26.90	26.23	23.76	22.88	24.24	25.17	40- 50	22.98	845.4	97.5, 97.5
60	8.243	8.158	7.990	8.108	7.895	7.376	6.795	7.603	50- 60	14.32	859.7	99.2, 99.2
70	2.968	2.751	2.616	2.772	2.993	2.697	2.585	2.704	60- 70	4.906	864.6	99.7, 99.7
80	1.130	1.015	0.8520	0.9916	0.8785	1.023	0.8377	0.9836	70- 80	1.983	866.6	100, 100
90	0.0441	0.0412	0.0414	0.0413	0.1295	0.1236	0.1298	0.1266	80- 90	0.3682	867.0	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): 834.15 lm

%lum = 96.2%

%lamp = 96.2%

Conical surface Flux(120deg): 859.71 lm

%lum = 99.2%

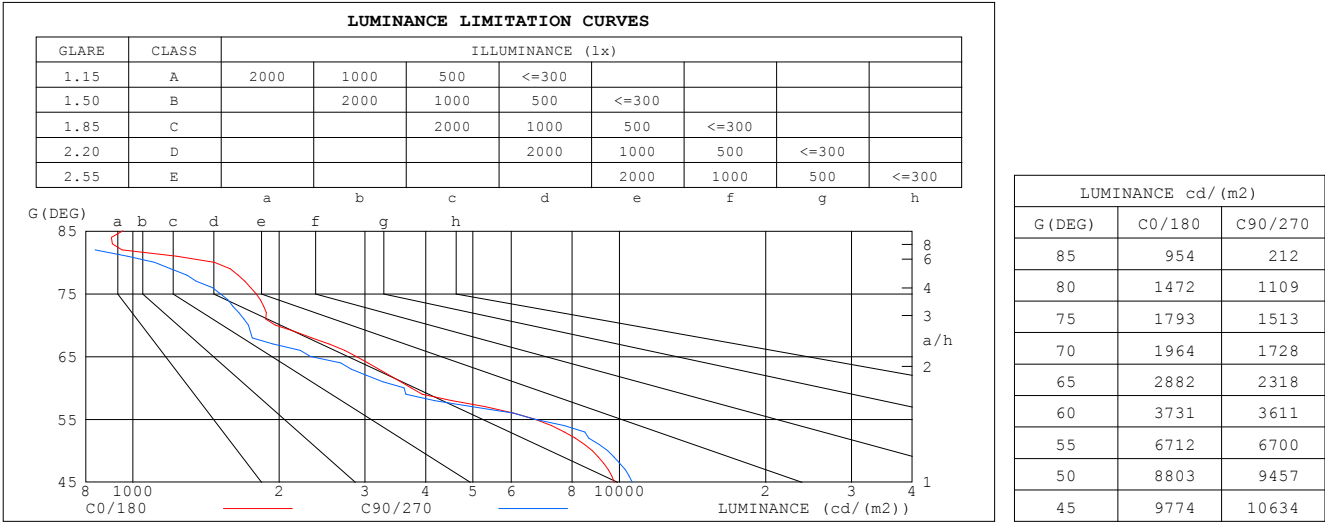
%lamp = 99.2%

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-09-25

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.620m [K=1.0000]  
Remarks:

LUMINANCE LIMITATION CURVES

NAME:	TYPE:CRI90 3000K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:



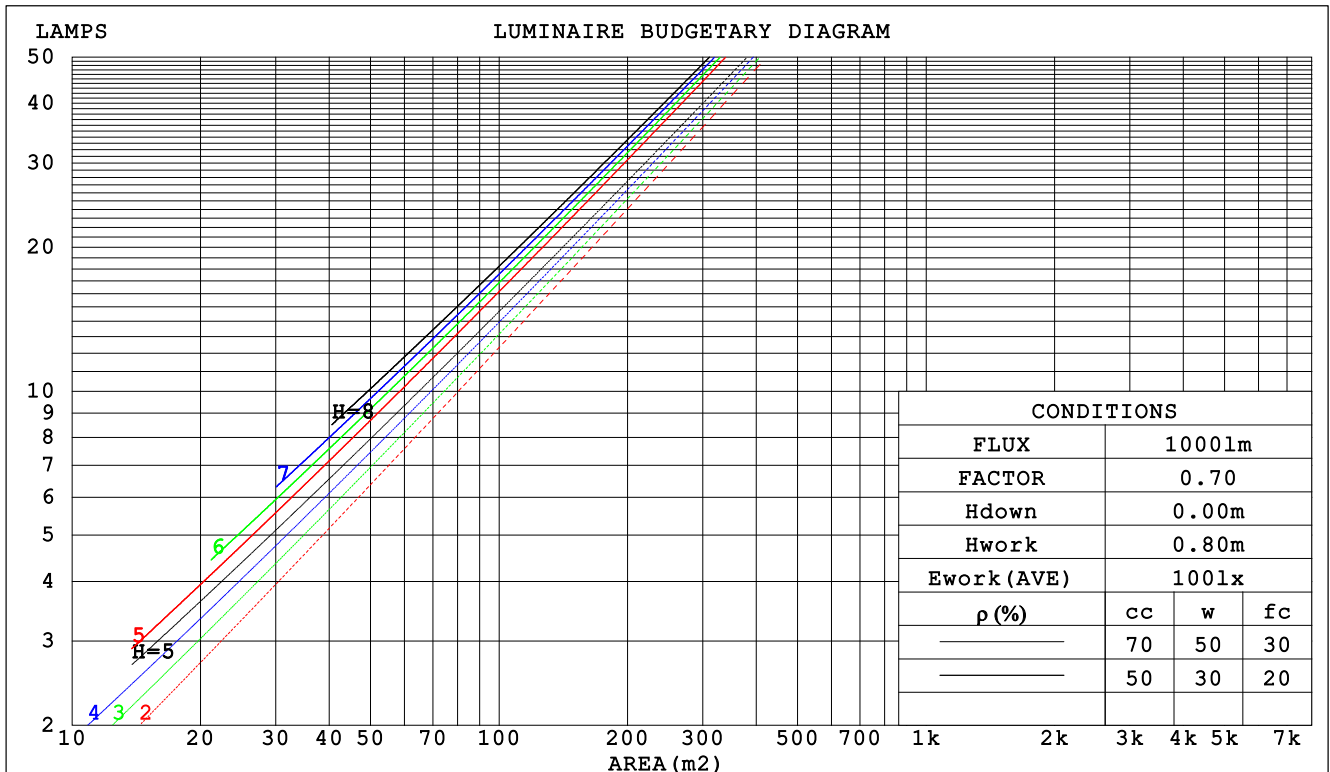
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-09-25

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.620m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME:	TYPE:CRI90 3000K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	1.00	1.05	1.02	.99	1.02	.99	.97	.99	.97	.95	.96	.94	.93	.92
3.0	1.01	.97	.94	.90	.96	.93	.97	.94	.92	.95	.93	.91	.93	.91	.89	.88
4.0	.97	.92	.89	.96	.92	.89	.94	.90	.88	.92	.89	.87	.90	.88	.86	.84
5.0	.93	.88	.85	.92	.88	.84	.90	.86	.84	.89	.85	.83	.87	.84	.82	.81
6.0	.89	.84	.81	.88	.84	.81	.87	.83	.80	.86	.82	.80	.84	.82	.79	.78
7.0	.86	.81	.78	.85	.81	.78	.84	.80	.77	.83	.79	.77	.82	.79	.77	.75
8.0	.83	.78	.75	.82	.78	.75	.81	.77	.75	.80	.77	.74	.79	.76	.74	.73
9.0	.80	.75	.72	.79	.75	.72	.79	.75	.72	.78	.74	.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:  
Test Date:2024-09-25

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.620m [K=1.0000]  
Remarks:

## WEC AND CCEC

NAME:	TYPE:CRI90 3000K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	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	.149 .084 .027	.142 .081 .026	.129 .074 .024	.118 .068 .022	.107 .062 .020	
2.0	.139 .076 .023	.133 .073 .023	.123 .068 .021	.113 .064 .020	.105 .059 .019	
3.0	.130 .069 .021	.125 .067 .020	.117 .063 .019	.109 .060 .018	.101 .056 .017	
4.0	.122 .063 .019	.118 .062 .018	.111 .059 .018	.104 .056 .017	.098 .053 .016	
5.0	.115 .059 .017	.112 .057 .017	.105 .055 .016	.100 .053 .016	.094 .050 .015	
6.0	.109 .055 .016	.106 .054 .015	.101 .052 .015	.096 .050 .015	.091 .048 .014	
7.0	.104 .051 .015	.101 .050 .014	.096 .049 .014	.092 .047 .014	.088 .046 .013	
8.0	.099 .048 .014	.096 .047 .013	.092 .046 .013	.088 .045 .013	.085 .043 .013	
9.0	.094 .046 .013	.092 .045 .013	.089 .044 .012	.085 .043 .012	.082 .042 .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	.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	.126 .098 .077	.108 .085 .067	.074 .059 .047	.043 .035 .028	.014 .011 .009	
5.0	.115 .086 .064	.099 .074 .056	.068 .052 .040	.040 .031 .023	.013 .010 .008	
6.0	.107 .076 .054	.092 .066 .047	.063 .046 .033	.037 .027 .020	.012 .009 .007	
7.0	.099 .068 .046	.086 .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	.088 .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:  
Test Date:2024-09-25

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.620m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

NAME:					TYPE:CRI90 3000K			WEIGHT:			
SPEC.:LB11800					DIM.:			SERIAL No.:1			
MFR.:					SUR.:ø75MM			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	12.3	13.0	12.5	13.2	13.3	12.4	13.1	12.6	13.3	13.4
	3H	12.5	13.2	12.7	13.3	13.5	12.5	13.1	12.7	13.3	13.5
	4H	12.5	13.2	12.8	13.4	13.6	12.5	13.1	12.7	13.3	13.5
	6H	12.6	13.2	12.8	13.4	13.6	12.4	13.0	12.7	13.3	13.5
	8H	12.5	13.1	12.8	13.4	13.6	12.4	13.0	12.7	13.2	13.5
	12H	12.5	13.1	12.8	13.3	13.6	12.4	12.9	12.7	13.2	13.5
4H	2H	12.4	13.0	12.7	13.2	13.5	12.5	13.1	12.7	13.3	13.5
	3H	12.6	13.2	12.9	13.4	13.7	12.6	13.1	12.9	13.4	13.7
	4H	12.7	13.2	13.0	13.5	13.8	12.6	13.1	13.0	13.4	13.7
	6H	12.8	13.2	13.1	13.5	13.9	12.6	13.1	13.0	13.4	13.7
	8H	12.7	13.2	13.1	13.5	13.9	12.6	13.0	13.0	13.4	13.7
	12H	12.7	13.1	13.1	13.5	13.9	12.5	12.9	12.9	13.3	13.7
8H	4H	12.6	13.1	13.0	13.4	13.8	12.6	13.0	12.9	13.3	13.7
	6H	12.7	13.1	13.2	13.5	13.9	12.6	12.9	13.0	13.3	13.7
	8H	12.7	13.0	13.2	13.5	13.9	12.5	12.9	13.0	13.3	13.7
	12H	12.7	13.0	13.2	13.4	13.9	12.5	12.8	13.0	13.2	13.7
12H	4H	12.6	13.0	13.0	13.4	13.7	12.5	12.9	12.9	13.3	13.6
	6H	12.7	13.0	13.1	13.4	13.9	12.5	12.8	13.0	13.3	13.7
	8H	12.7	13.0	13.2	13.4	13.9	12.5	12.8	13.0	13.2	13.7
Variations with the observer position at spacings:											
S = 1.0H		+ 0.9 / - 1.0					+ 1.2 / - 1.5				
1.5H		+ 0.5 / - 1.1					+ 0.6 / - 1.0				
2.0H		+ 2.0 / - 2.8					+ 2.5 / - 3.5				

CIE Pub.117, 867.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.5)

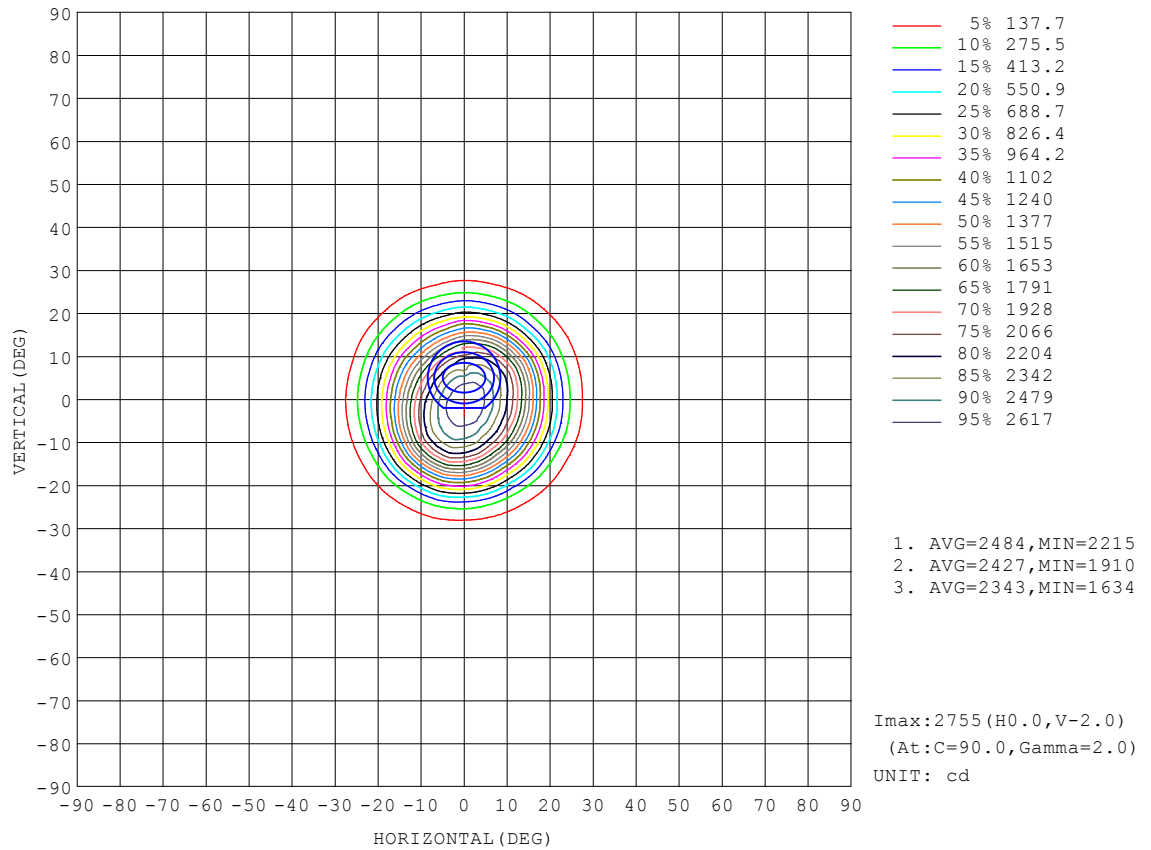
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-09-25

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.620m [K=1.0000]  
Remarks:



## ISOCANDELA DIAGRAM

NAME:	TYPE:CRI90 3000K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:



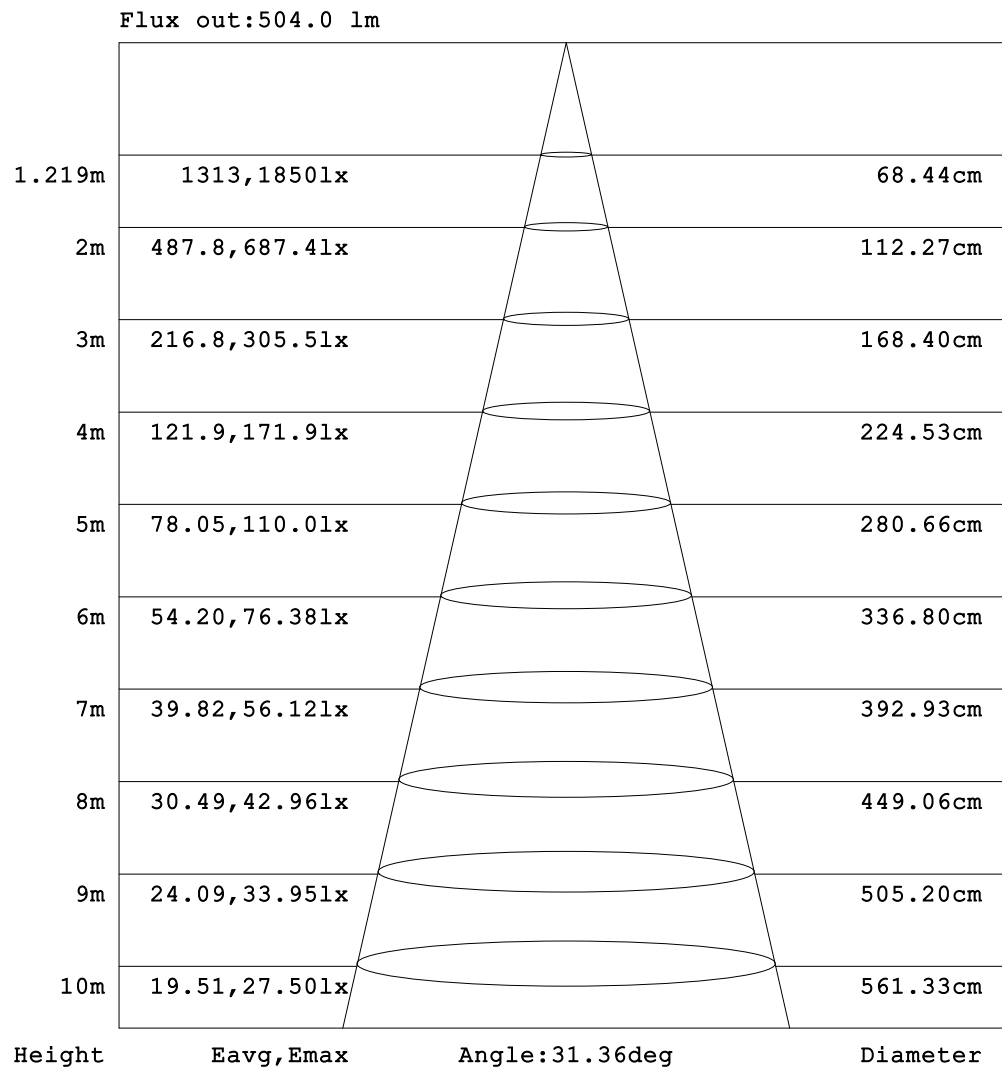
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-09-25

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.620m [K=1.0000]  
Remarks:



## AAI Figure

NAME:	TYPE:CRI90 3000K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:



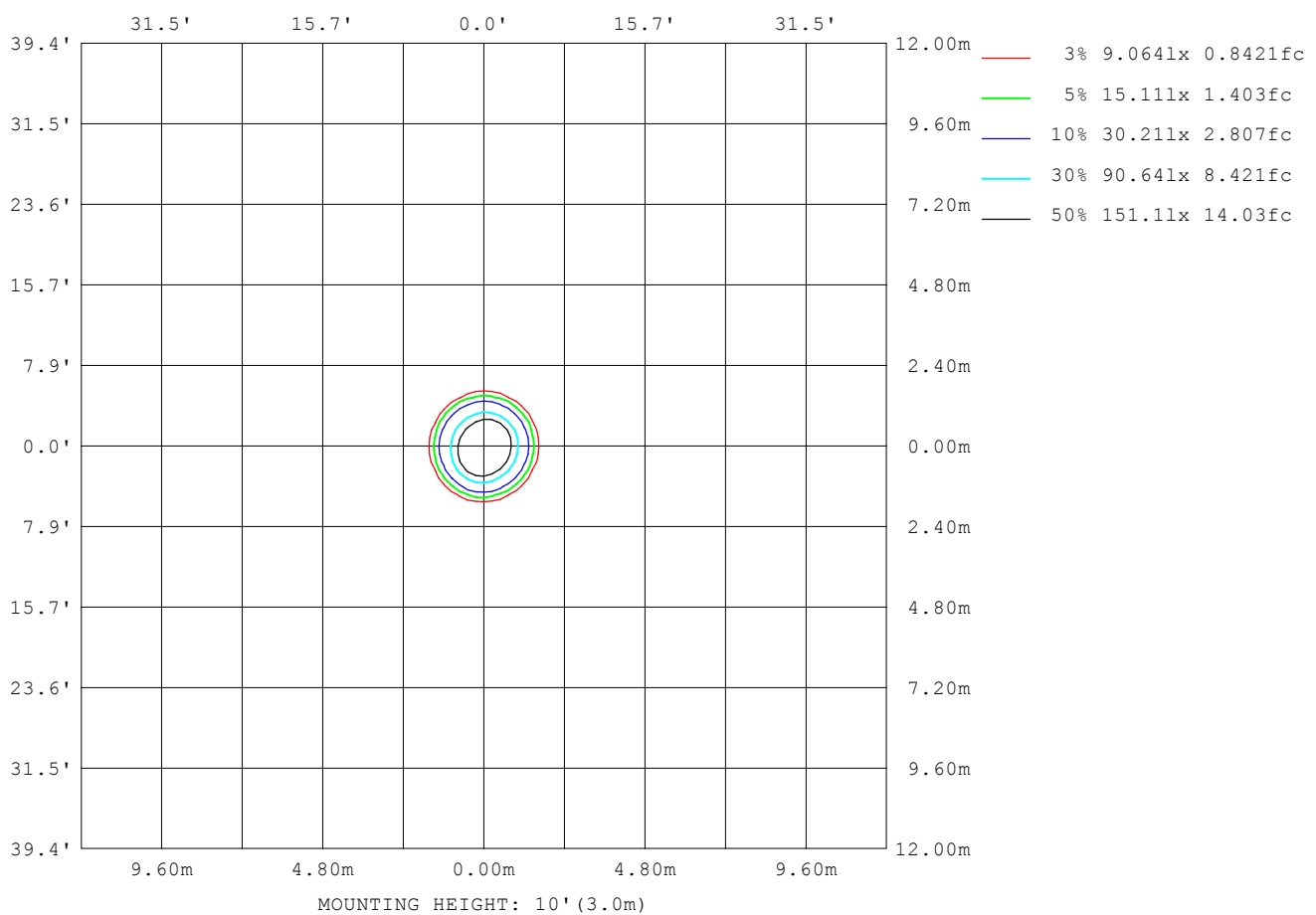
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-09-25

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.620m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

NAME:	TYPE:CRI90 3000K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-09-25

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.620m [K=1.0000]  
Remarks:

## LED Avg.L Report

NAME:	TYPE:CRI90 3000K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:

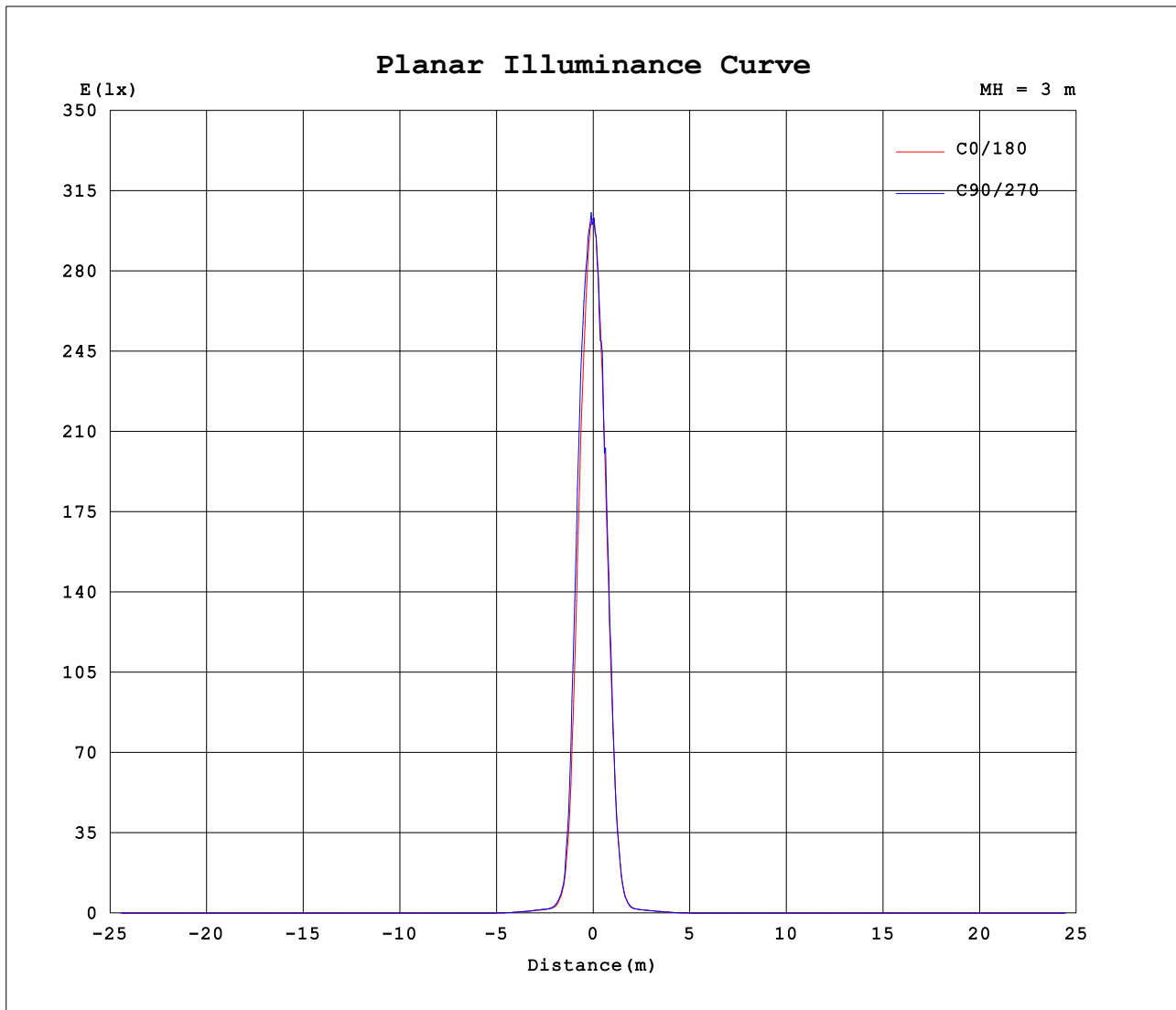
AvgL	cd/m2
L_0~180 (65) av	2818
L_0~180 (75) av	1819
L_0~180 (85) av	806
L_90~270 (65) av	2271
L_90~270 (75) av	1503
L_90~270 (85) av	282
L_45 (65) av	2667
L_45 (75) av	1654
L_45 (85) av	534

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-09-25

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.620m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-09-25

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 5.620m [K=1.0000]  
Remarks:



NAME :	TYPE:CRI90 3000K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:

UNIT: cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

```