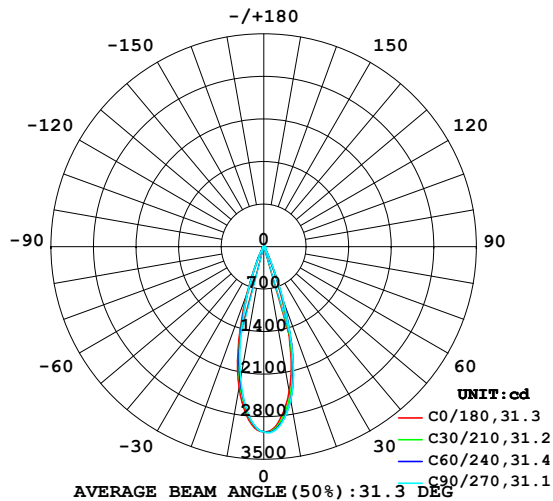


## LUMINAIRE PHOTOMETRIC TEST REPORT

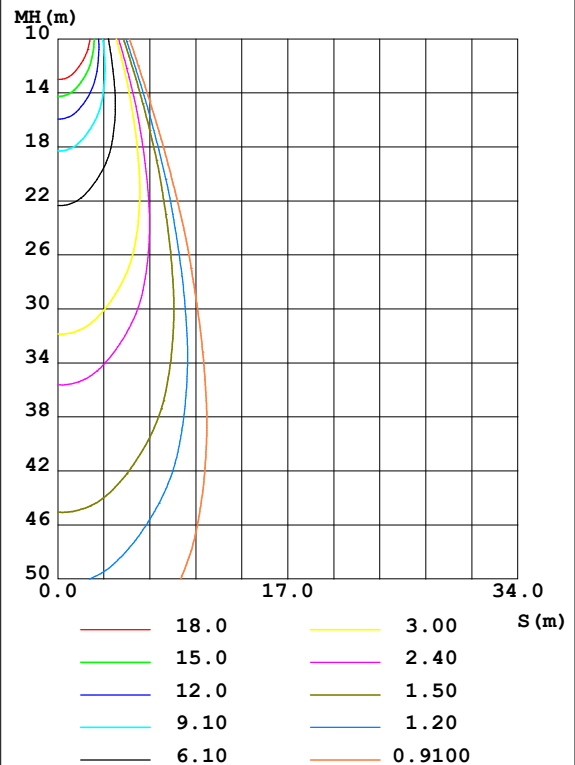
NAME:	TYPE:CRI90 4000K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 81.71 lm/W
MODEL		I <sub>max</sub> (cd)	3061	S/MH (C0/180)		0.50
NOMINAL POWER (W)	12	LOR (%)	100.0	S/MH (C90/270)		0.48
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	912.24	η UP, DN (C0-180)		0.0, 52.8
NOMINAL FLUX (lm)	912.239	CIE CLASS	DIRECT	η UP, DN (C180-360)		0.0, 47.2
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

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:  
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	2421	2548	2566	2478	2361	2241	2211	2243	0- 10	258.6	258.6	28.3, 28.3
20	810.0	915.7	923.7	872.9	790.3	728.4	712.0	736.2	10- 20	434.7	693.3	76, 76
30	89.81	100.00	97.73	95.91	87.03	84.61	83.48	85.72	20- 30	143.8	837.1	91.8, 91.8
40	34.36	35.74	35.30	33.61	32.20	31.45	31.52	32.64	30- 40	28.73	865.8	94.9, 94.9
50	26.44	27.47	27.39	26.45	25.40	24.79	24.56	25.45	40- 50	23.85	889.7	97.5, 97.5
60	8.669	8.645	7.981	8.456	8.358	7.800	7.059	7.921	50- 60	14.94	904.6	99.2, 99.2
70	3.119	2.917	2.754	2.943	3.171	2.866	2.739	2.840	60- 70	5.151	909.8	99.7, 99.7
80	1.190	1.093	0.8974	1.039	0.9305	1.082	0.8883	1.031	70- 80	2.092	911.9	100, 100
90	0.0468	0.0386	0.0413	0.0413	0.1323	0.1350	0.1323	0.1293	80- 90	0.3876	912.2	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): 877.98 lm

%lum = 96.2%

%lamp = 96.2%

Conical surface Flux(120deg): 904.61 lm

%lum = 99.2%

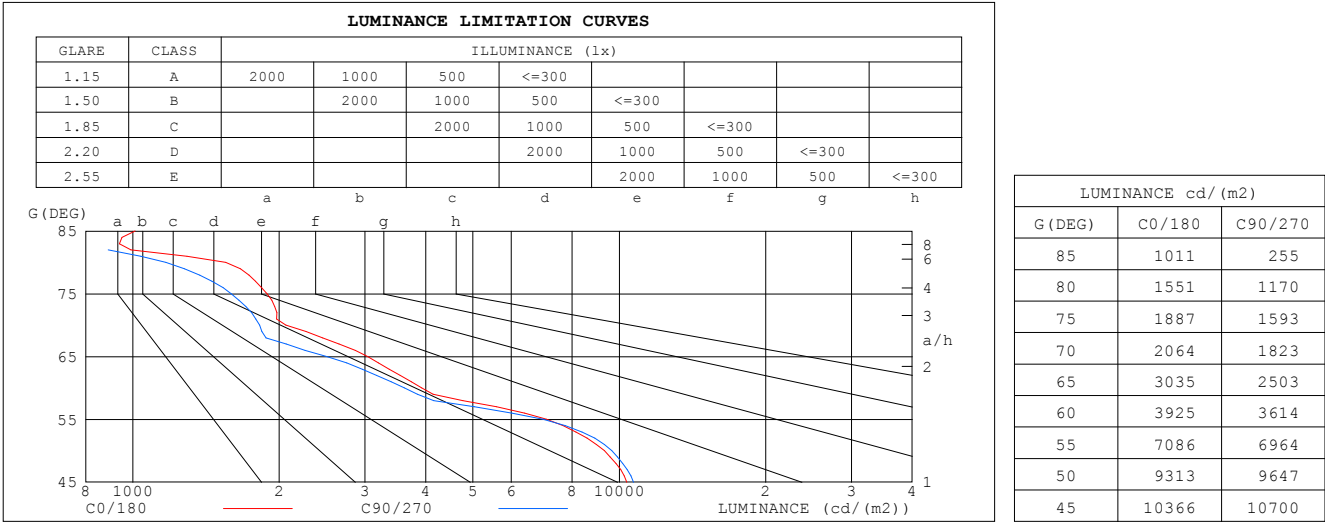
%lamp = 99.2%

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 4000K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:



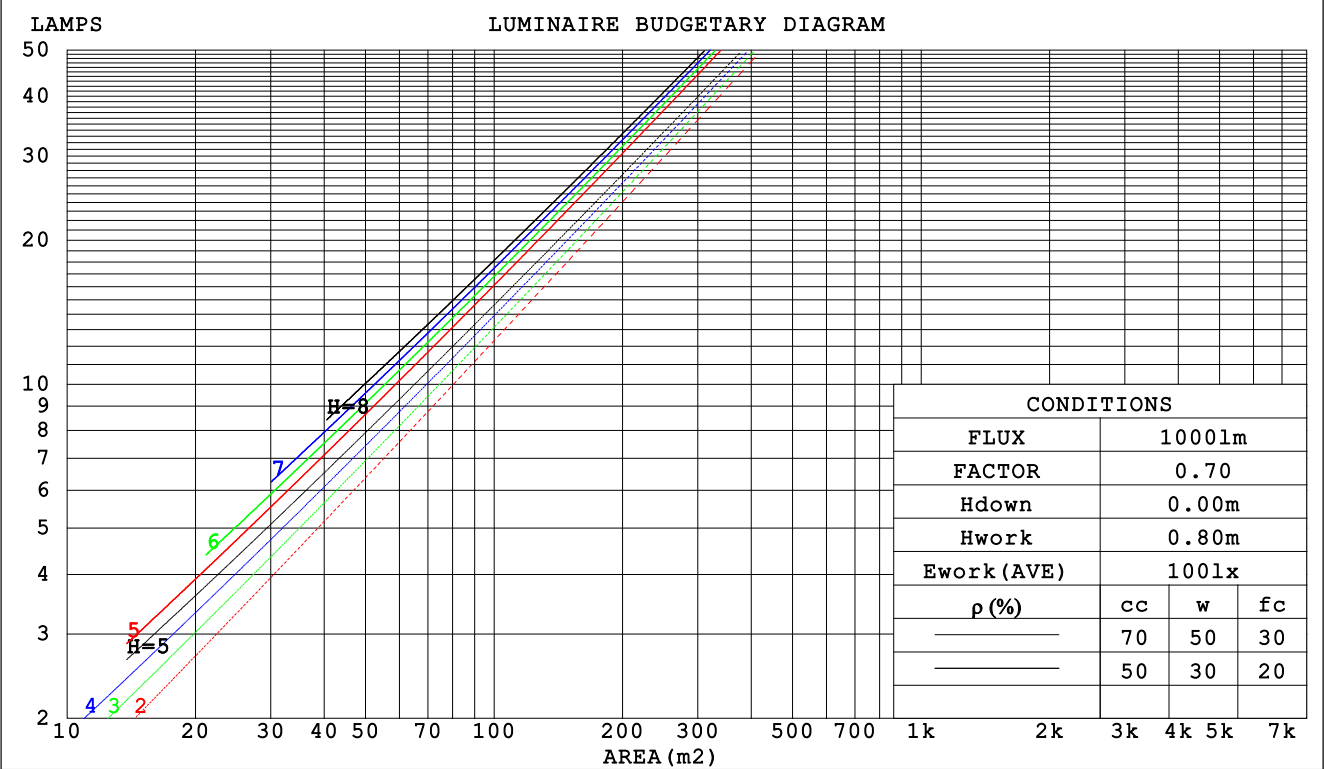
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-09-25

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 4000K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	1.12	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	1.06	1.03	1.01	1.05	1.02	.99	1.02	.99	.97	.99	.97	.95	.96	.95	.93	.92
3.0	1.01	.97	.94	1.00	.96	.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	.82	.89	.84	.81	.87	.84	.81	.86	.83	.80	.85	.82	.80	.79
7.0	.86	.82	.78	.85	.81	.78	.84	.81	.78	.83	.80	.77	.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	.76	.73	.79	.75	.73	.78	.75	.72	.78	.74	.72	.71
10.0	.78	.73	.71	.77	.73	.70	.77	.73	.70	.76	.73	.70	.75	.72	.70	.69



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:

## WEC AND CCEC

NAME:	TYPE:CRI90 4000K	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	.147 .084 .027	.141 .080 .026	.128 .074 .024	.117 .067 .022	.106 .062 .020	
2.0	.138 .075 .023	.132 .073 .022	.122 .068 .021	.112 .063 .020	.104 .059 .018	
3.0	.129 .069 .021	.124 .067 .020	.116 .063 .019	.108 .059 .018	.100 .055 .017	
4.0	.121 .063 .018	.117 .061 .018	.110 .058 .017	.103 .055 .017	.097 .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	.102 .051 .014	.100 .050 .014	.095 .048 .014	.091 .047 .014	.087 .045 .013	
8.0	.098 .048 .013	.095 .047 .013	.091 .046 .013	.087 .044 .013	.084 .043 .013	
9.0	.093 .045 .013	.091 .044 .012	.088 .043 .012	.084 .042 .012	.081 .041 .012	
10.0	.089 .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 .022	.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: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 4000K					WEIGHT:				
SPEC.:LB11800	DIM.:					SERIAL No.:1				
MFR.:	SUR.:Φ75MM					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	12.4	13.1	12.6	13.3	13.4	12.4	13.1	12.6	13.2	13.4
3H	12.6	13.3	12.8	13.4	13.6	12.4	13.1	12.7	13.3	13.5
4H	12.6	13.3	12.9	13.5	13.7	12.4	13.1	12.7	13.3	13.5
6H	12.7	13.3	12.9	13.5	13.7	12.4	13.0	12.7	13.3	13.5
8H	12.6	13.2	12.9	13.5	13.7	12.4	13.0	12.7	13.2	13.5
12H	12.6	13.2	12.9	13.4	13.7	12.4	12.9	12.7	13.2	13.4
4H 2H	12.5	13.1	12.8	13.4	13.6	12.5	13.1	12.7	13.3	13.5
3H	12.7	13.3	13.0	13.5	13.8	12.6	13.1	12.9	13.4	13.6
4H	12.8	13.3	13.1	13.6	13.9	12.6	13.1	12.9	13.4	13.7
6H	12.9	13.3	13.2	13.6	14.0	12.6	13.1	13.0	13.4	13.7
8H	12.8	13.3	13.2	13.6	14.0	12.6	13.0	13.0	13.3	13.7
12H	12.8	13.2	13.2	13.6	14.0	12.5	12.9	12.9	13.3	13.7
8H 4H	12.7	13.2	13.1	13.5	13.9	12.5	13.0	12.9	13.3	13.7
6H	12.8	13.2	13.3	13.6	14.0	12.6	12.9	13.0	13.3	13.7
8H	12.8	13.1	13.3	13.6	14.0	12.5	12.9	13.0	13.3	13.7
12H	12.8	13.1	13.3	13.5	14.0	12.5	12.8	13.0	13.2	13.7
12H 4H	12.7	13.1	13.1	13.4	13.8	12.5	12.9	12.9	13.3	13.6
6H	12.8	13.1	13.2	13.5	13.9	12.5	12.8	13.0	13.3	13.7
8H	12.8	13.1	13.3	13.5	14.0	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 / - 1.2					+ 0.6 / - 1.1				
2.0H	+ 2.1 / - 2.9					+ 2.4 / - 3.4				

CIE Pub.117, 912.2 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = -0.3$ )

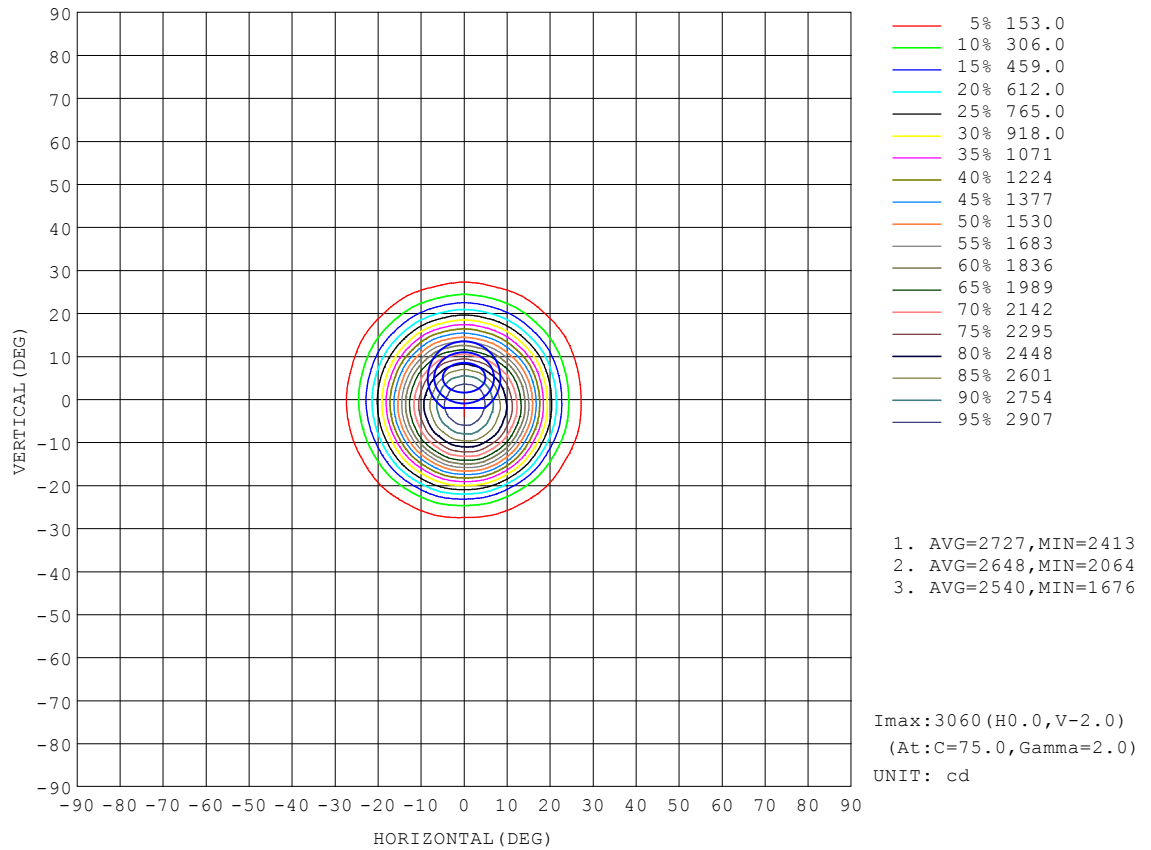
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-09-25

$\gamma$  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:



## ISOCANDELA DIAGRAM

NAME:	TYPE:CRI90 4000K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:



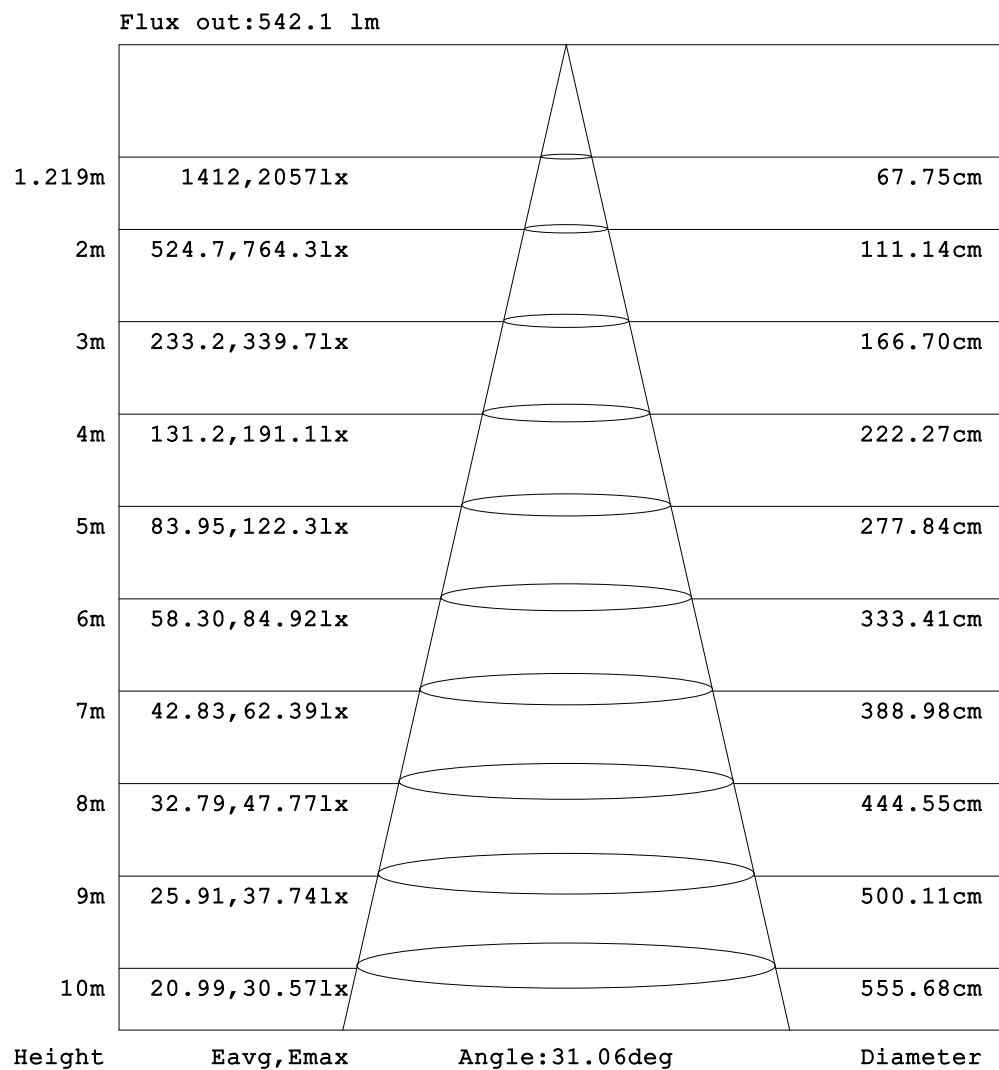
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-09-25

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 4000K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:



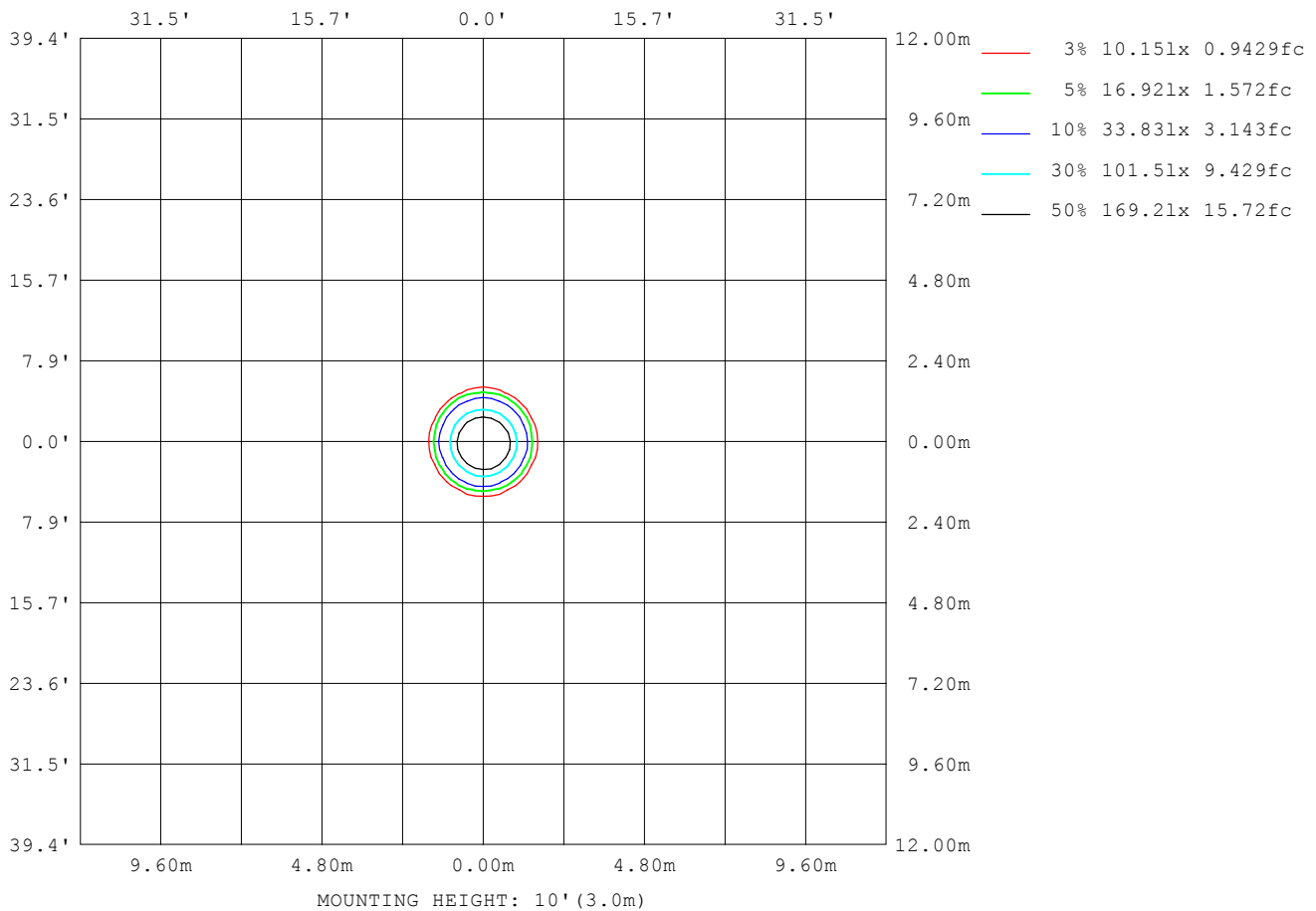
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 4000K	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 4000K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:

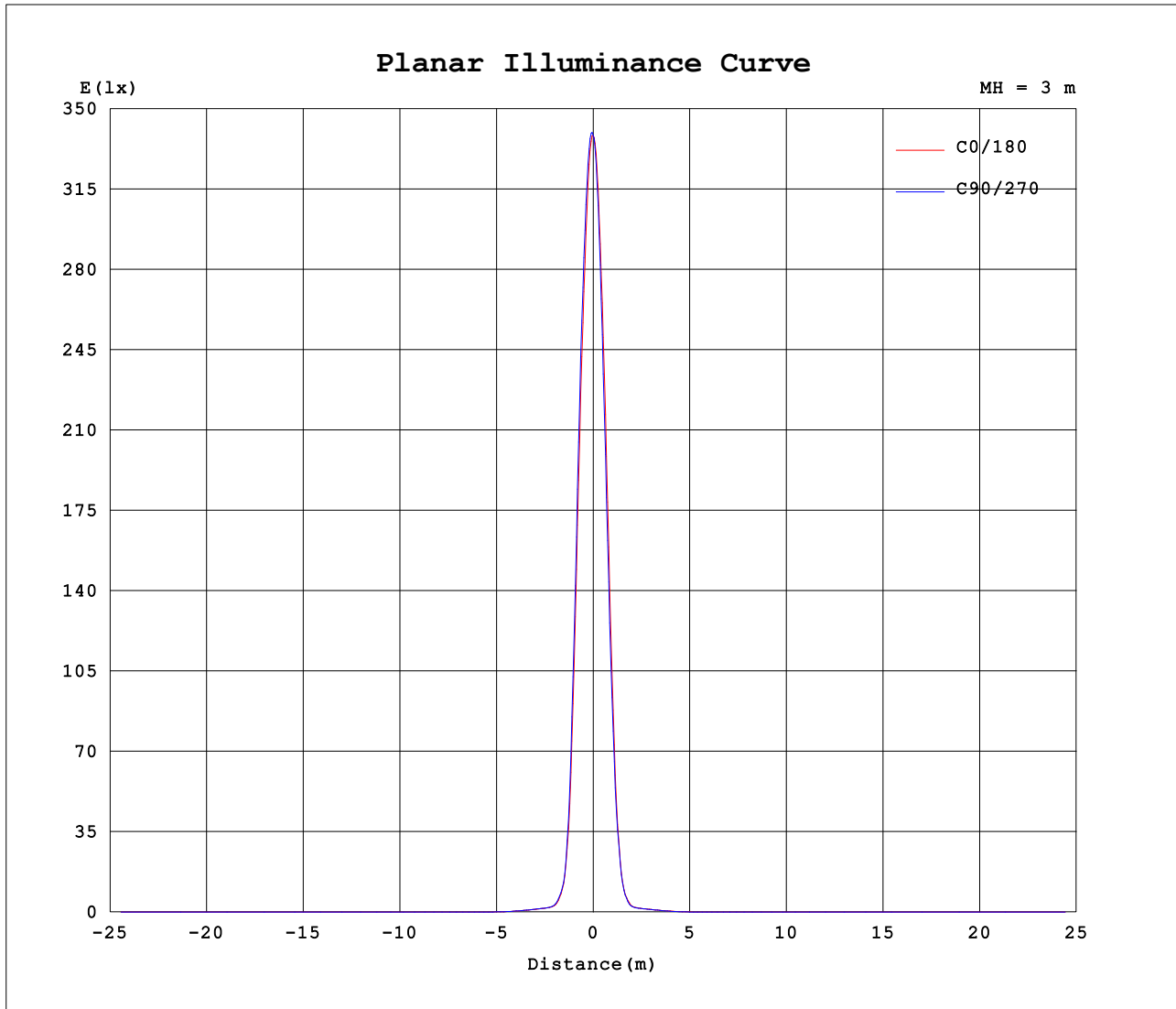
AvgL	cd/m2
L_0~180 (65) av	2973
L_0~180 (75) av	1920
L_0~180 (85) av	845
L_90~270 (65) av	2409
L_90~270 (75) av	1584
L_90~270 (85) av	299
L_45 (65) av	2790
L_45 (75) av	1747
L_45 (85) av	544

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:



