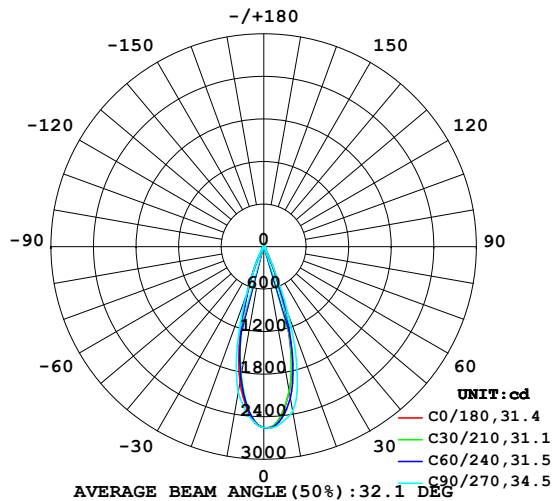


LUMINAIRE PHOTOMETRIC TEST REPORT

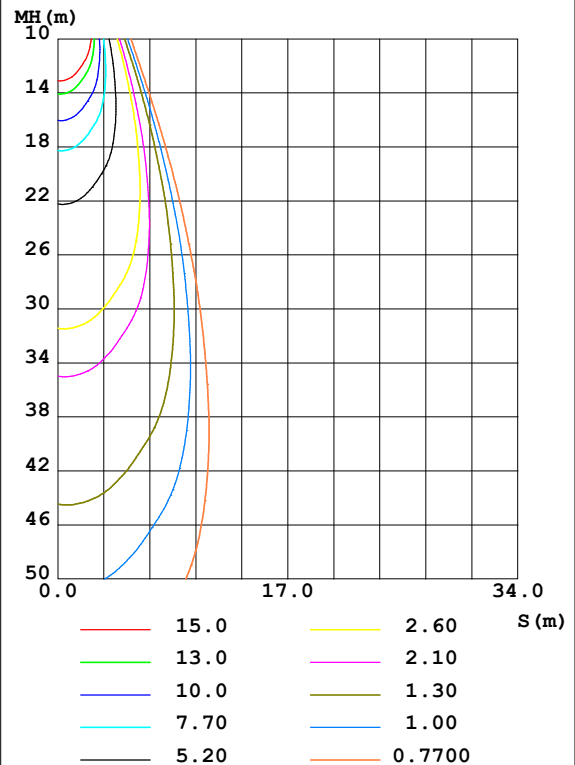
NAME:	TYPE:CRI90 2700K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 74.28 lm/W			
MODEL		I _{max} (cd)	2562	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)	838.15	η UP,DN (C0-180)	0.0,52.7
NOMINAL FLUX(lm)	838.155	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	0.55

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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2079	2120	2356	2307	1948	1828	2079	2262	0- 10	222.2	222.2	26.5, 26.5
20	729.1	794.8	1002	966.7	677.9	630.8	706.0	784.1	10- 20	404.7	626.9	74.8, 74.8
30	83.98	89.86	96.46	95.16	78.30	75.96	78.93	83.90	20- 30	140.9	767.8	91.6, 91.6
40	31.49	31.95	34.60	33.69	29.25	28.04	30.37	32.63	30- 40	26.99	794.7	94.8, 94.8
50	24.20	24.51	26.38	25.92	22.93	22.01	23.39	24.83	40- 50	22.44	817.2	97.5, 97.5
60	8.004	7.951	7.425	7.905	7.656	7.160	6.606	7.411	50- 60	13.93	831.1	99.2, 99.2
70	2.886	2.678	2.522	2.680	2.901	2.646	2.535	2.629	60- 70	4.766	835.9	99.7, 99.7
80	1.107	1.002	0.8126	0.9579	0.8550	0.9962	0.8310	0.9609	70- 80	1.924	837.8	100, 100
90	0.0410	0.0330	0.0414	0.0387	0.1230	0.1017	0.1296	0.1134	80- 90	0.3571	838.2	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): 806.22 lm

%lum = 96.2%

%lamp = 96.2%

Conical surface Flux(120deg): 831.11 lm

%lum = 99.2%

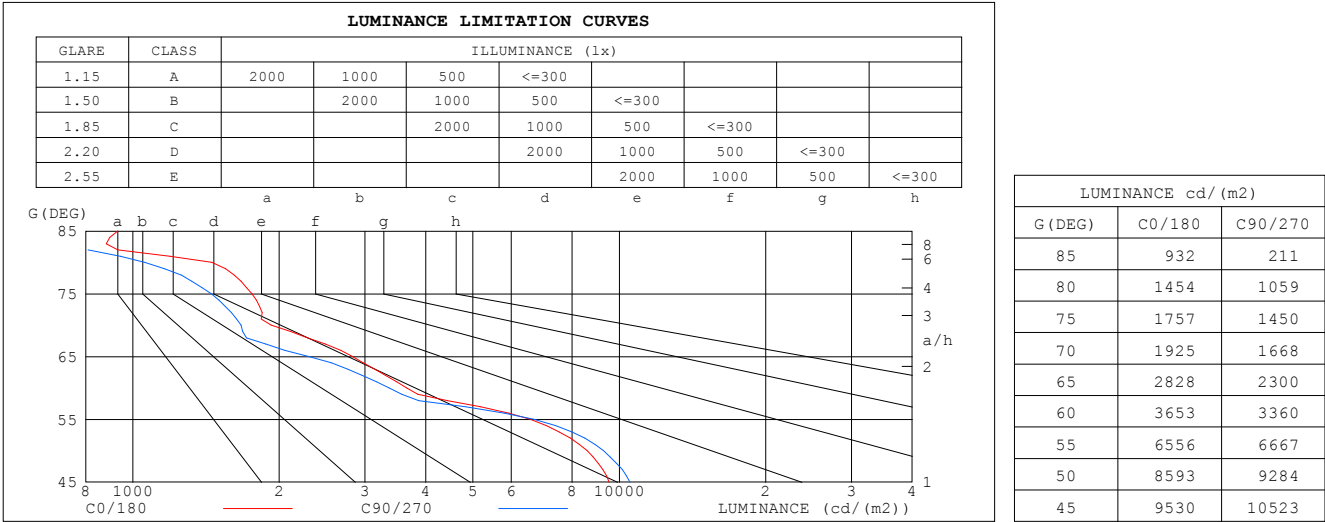
%lamp = 99.2%

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

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:

LUMINANCE LIMITATION CURVES

NAME:	TYPE:CRI90 2700K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:



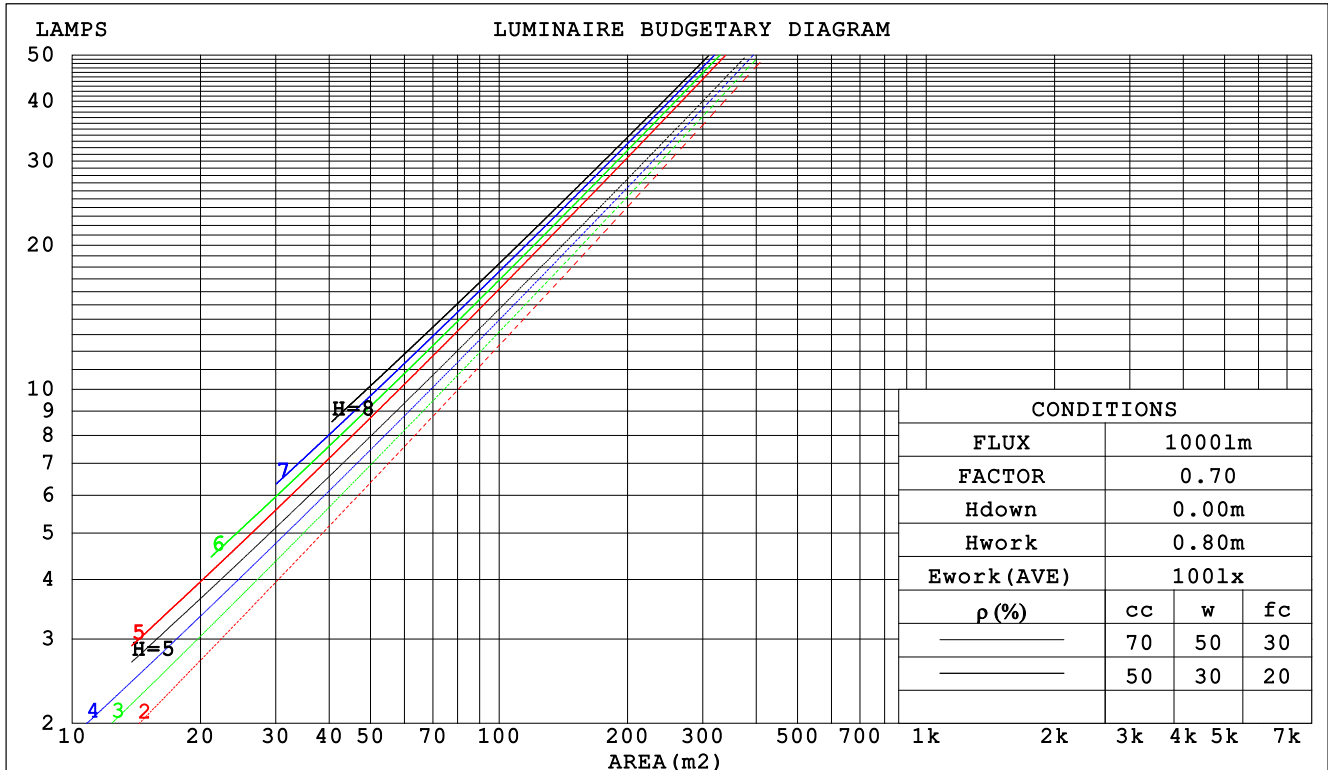
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-09-25

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 2700K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	1.02	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	.92	.90	.93	.91	.89	.88
4.0	.97	.92	.89	.95	.91	.88	.93	.90	.87	.92	.89	.86	.90	.87	.85	.84
5.0	.92	.88	.85	.92	.87	.84	.90	.86	.84	.88	.85	.83	.87	.84	.82	.81
6.0	.89	.84	.81	.88	.84	.81	.87	.83	.80	.85	.82	.80	.84	.81	.79	.78
7.0	.85	.81	.78	.85	.81	.77	.84	.80	.77	.83	.79	.77	.82	.79	.76	.75
8.0	.82	.78	.75	.82	.78	.75	.81	.77	.74	.80	.77	.74	.79	.76	.74	.73
9.0	.80	.75	.72	.79	.75	.72	.78	.74	.72	.78	.74	.72	.77	.74	.71	.70
10.0	.77	.73	.70	.77	.72	.70	.76	.72	.69	.75	.72	.69	.75	.71	.69	.68



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 2700K	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 .085 .027	.142 .081 .026	.130 .075 .024	.119 .068 .022	.108 .063 .020	
2.0	.139 .076 .023	.134 .074 .023	.123 .069 .021	.114 .064 .020	.105 .059 .019	
3.0	.130 .069 .021	.126 .067 .020	.117 .063 .019	.109 .060 .018	.102 .056 .017	
4.0	.123 .064 .019	.119 .062 .018	.111 .059 .018	.104 .056 .017	.098 .053 .016	
5.0	.116 .059 .017	.112 .058 .017	.106 .055 .016	.100 .053 .016	.095 .051 .015	
6.0	.109 .055 .016	.107 .054 .015	.101 .052 .015	.096 .050 .015	.091 .048 .014	
7.0	.104 .051 .015	.102 .051 .014	.097 .049 .014	.092 .047 .014	.088 .046 .013	
8.0	.099 .048 .014	.097 .048 .013	.093 .046 .013	.089 .045 .013	.085 .044 .013	
9.0	.095 .046 .013	.093 .045 .013	.089 .044 .012	.086 .043 .012	.082 .042 .012	
10.0	.091 .044 .012	.089 .043 .012	.086 .042 .012	.083 .041 .012	.080 .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 .116	.130 .114 .101	.089 .079 .070	.051 .046 .041	.016 .015 .013	
3.0	.138 .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	.116 .086 .064	.099 .074 .056	.068 .052 .039	.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	.100 .068 .046	.086 .059 .040	.059 .041 .028	.034 .024 .017	.011 .008 .006	
8.0	.093 .062 .040	.080 .053 .035	.056 .037 .025	.032 .022 .015	.010 .007 .005	
9.0	.088 .056 .035	.076 .049 .030	.052 .034 .021	.031 .020 .013	.010 .007 .004	
10.0	.083 .051 .030	.071 .045 .026	.050 .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 2700K			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	13.1	12.5	13.2	13.4	12.4	13.2	12.6	13.3	13.5
	3H	12.5	13.2	12.8	13.4	13.6	12.5	13.2	12.7	13.4	13.6
	4H	12.6	13.2	12.8	13.4	13.6	12.5	13.2	12.8	13.4	13.6
	6H	12.6	13.2	12.9	13.4	13.7	12.5	13.1	12.8	13.3	13.6
	8H	12.6	13.1	12.9	13.4	13.6	12.5	13.0	12.8	13.3	13.5
	12H	12.5	13.1	12.8	13.4	13.6	12.4	13.0	12.7	13.2	13.5
4H	2H	12.4	13.1	12.7	13.3	13.5	12.5	13.2	12.8	13.4	13.6
	3H	12.7	13.2	13.0	13.5	13.7	12.6	13.2	12.9	13.4	13.7
	4H	12.7	13.3	13.1	13.6	13.9	12.7	13.2	13.0	13.5	13.8
	6H	12.8	13.3	13.2	13.6	13.9	12.7	13.1	13.0	13.4	13.8
	8H	12.8	13.2	13.2	13.6	13.9	12.6	13.1	13.0	13.4	13.8
	12H	12.8	13.1	13.2	13.5	13.9	12.6	13.0	13.0	13.3	13.7
8H	4H	12.7	13.1	13.1	13.5	13.8	12.6	13.0	13.0	13.4	13.7
	6H	12.8	13.1	13.2	13.5	13.9	12.6	13.0	13.0	13.4	13.8
	8H	12.8	13.1	13.2	13.5	13.9	12.6	12.9	13.0	13.3	13.8
	12H	12.8	13.0	13.2	13.5	13.9	12.5	12.8	13.0	13.2	13.7
12H	4H	12.6	13.0	13.0	13.4	13.8	12.6	12.9	13.0	13.3	13.7
	6H	12.7	13.0	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	12.6	12.8	13.0	13.3	13.7
Variations with the observer position at spacings:											
S = 1.0H		+ 0.8 / - 1.0					+ 1.1 / - 1.5				
1.5H		+ 0.4 / - 1.0					+ 0.7 / - 0.9				
2.0H		+ 2.0 / - 2.8					+ 2.5 / - 3.5				

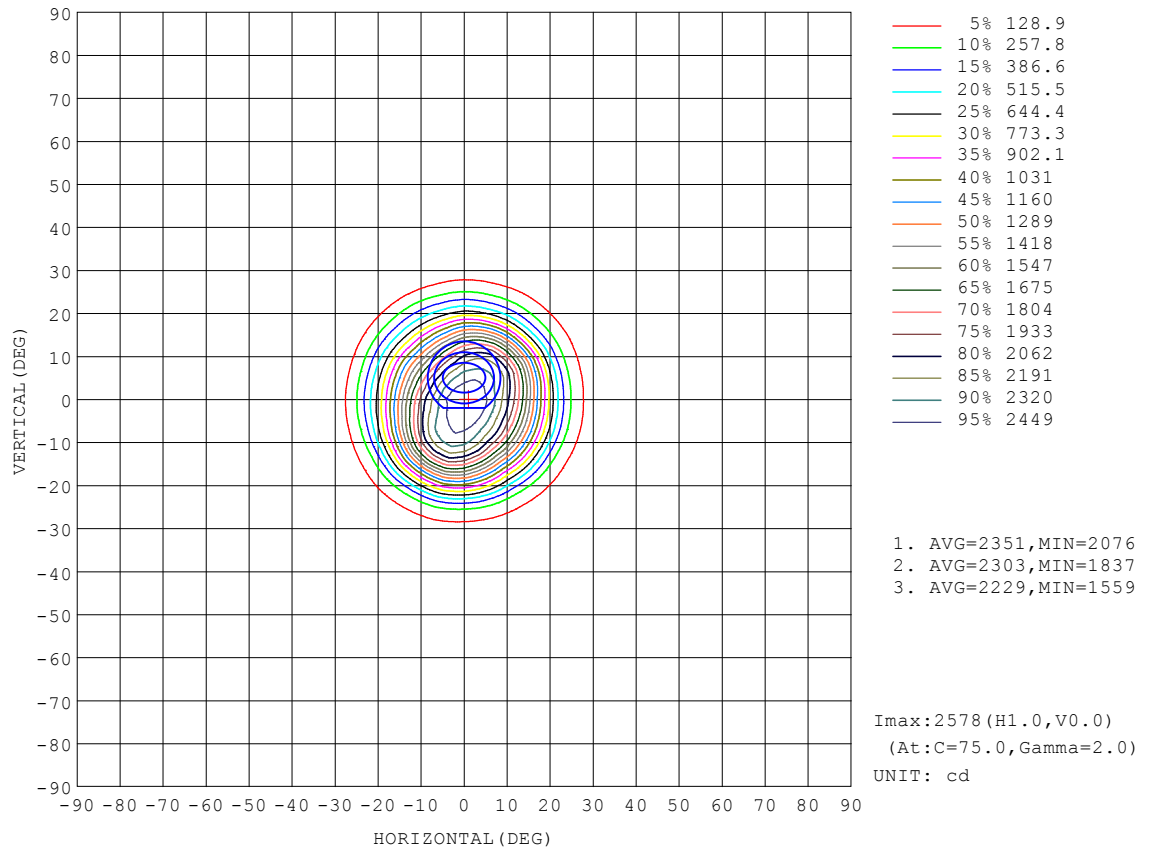
CIE Pub.117, 838.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.6)

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 2700K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:

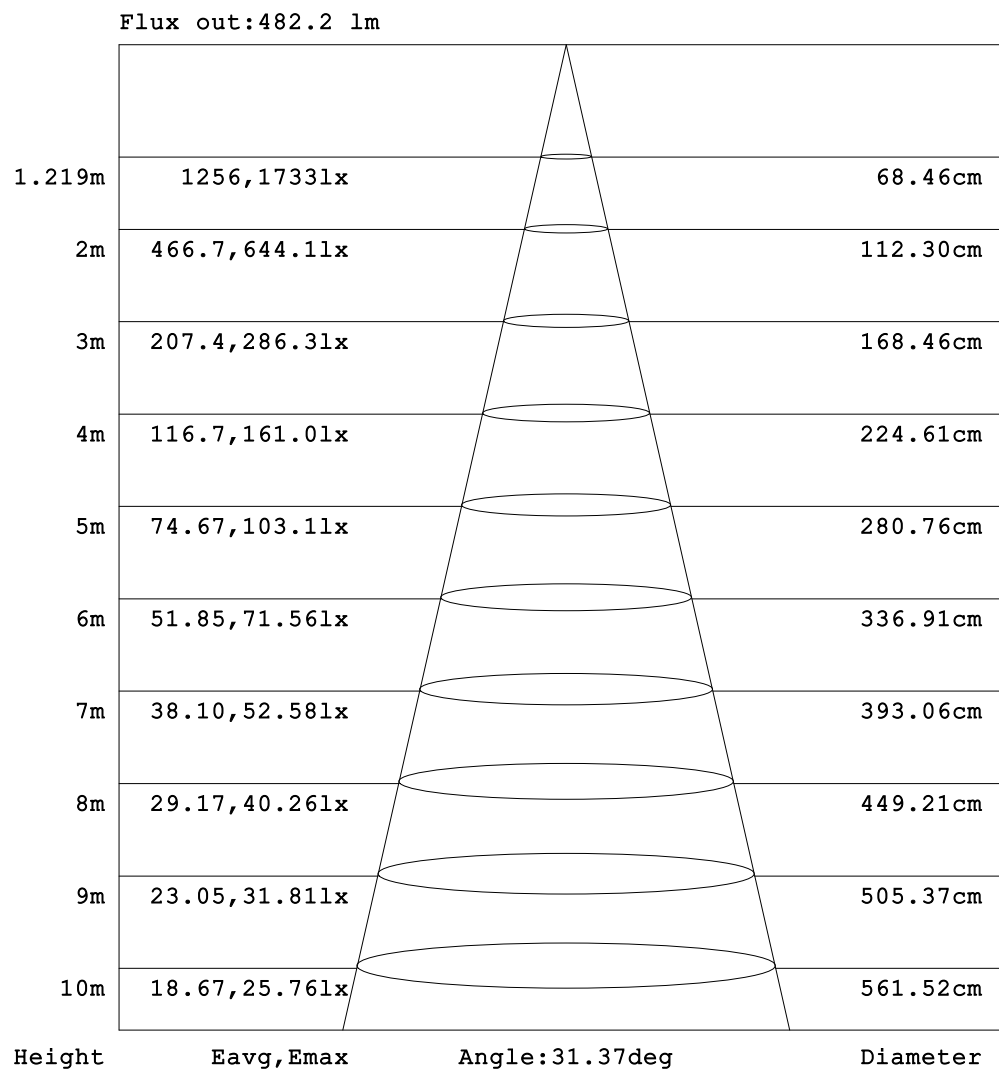


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-09-25

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 2700K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:



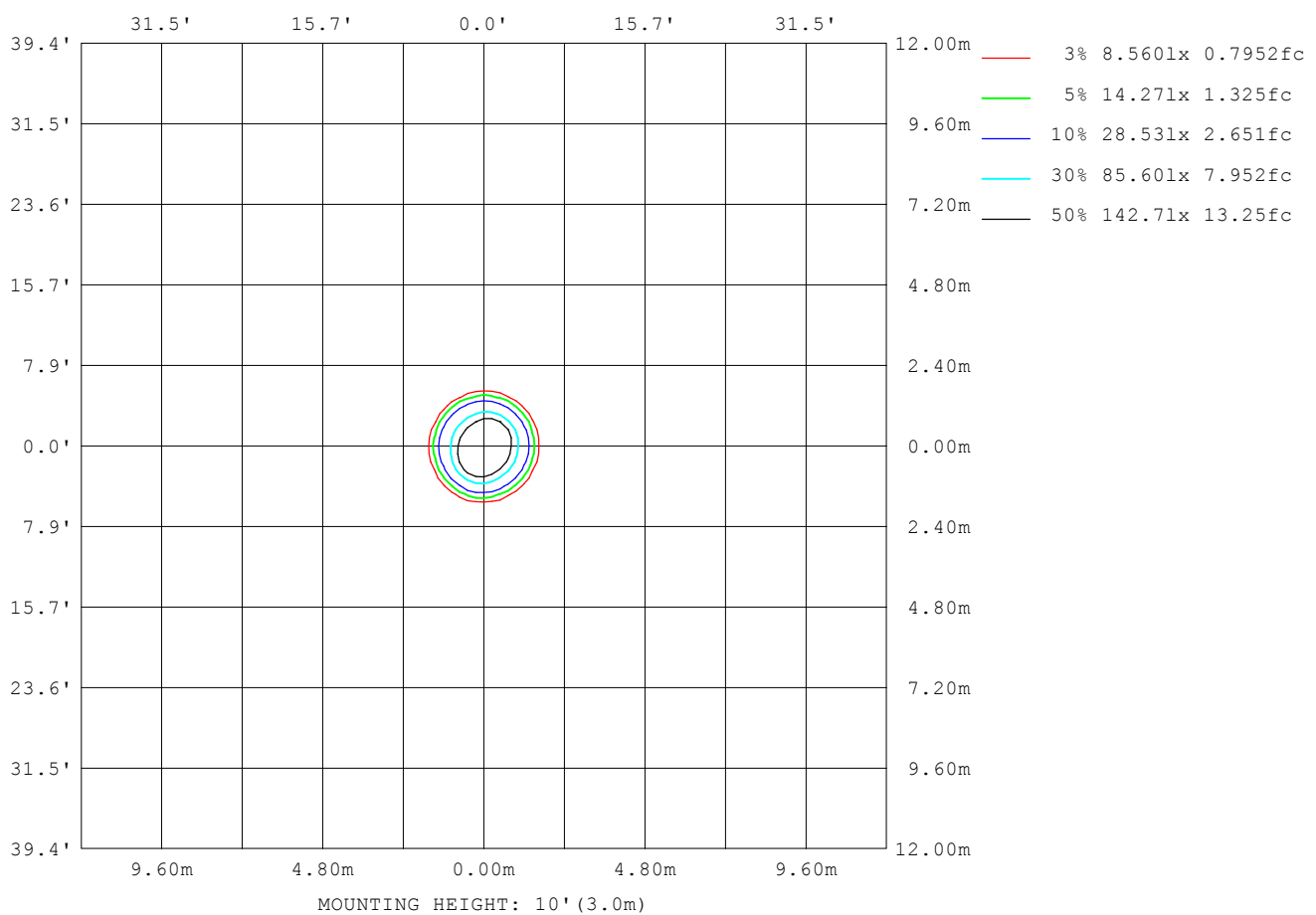
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 2700K	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 2700K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:

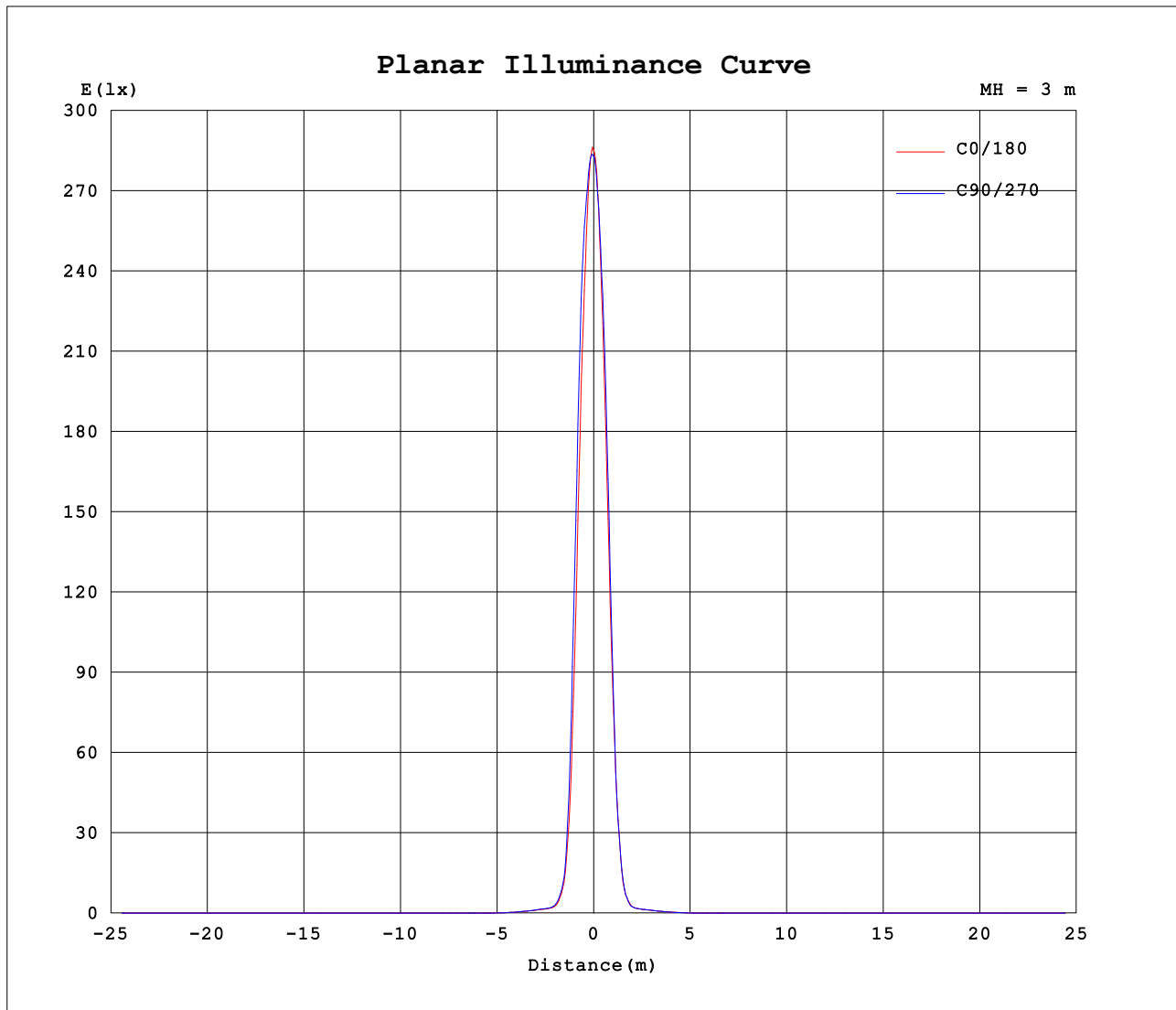
AvgL	cd/m2
L_0~180 (65) av	2740
L_0~180 (75) av	1766
L_0~180 (85) av	796
L_90~270 (65) av	2227
L_90~270 (75) av	1454
L_90~270 (85) av	274
L_45 (65) av	2597
L_45 (75) av	1606
L_45 (85) av	521

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

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:

