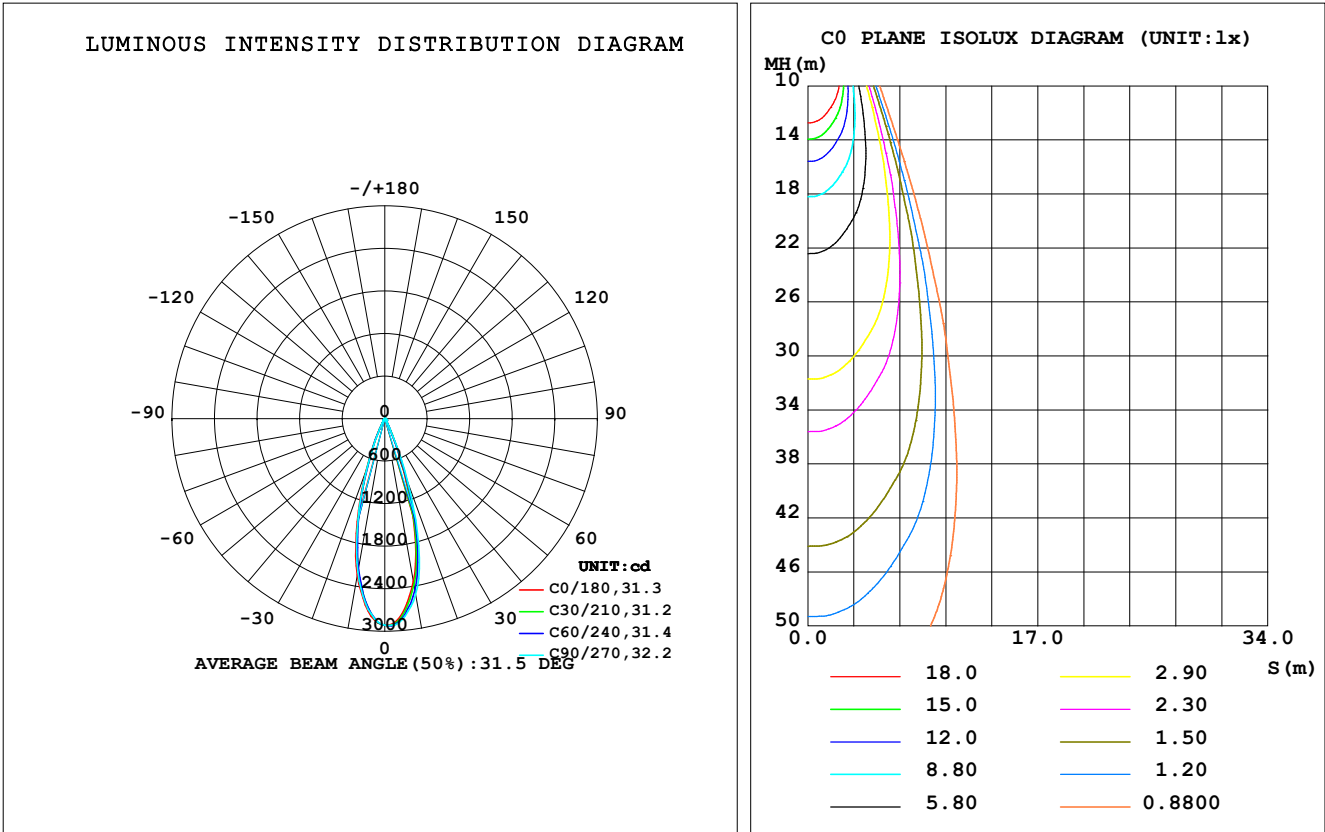


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME:	TYPE:CRI90 3500K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 81.50 lm/W
MODEL		Imax(cd)	2928	S/MH(C0/180)	0.50	
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	0.49	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	898.38	η UP,DN(C0-180)	0.0,52.8	
NOMINAL FLUX(lm)	898.379	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	



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	2333	2425	2519	2450	2236	2123	2198	2288	0- 10	249.2	249.2	27.7, 27.7
20	802.3	882.6	961.8	921.6	760.4	704.8	718.8	765.1	10- 20	430.1	679.3	75.6, 75.6
30	87.91	97.17	97.89	96.83	84.62	82.53	82.64	86.03	20- 30	144.8	824.1	91.7, 91.7
40	33.64	34.64	35.39	34.09	31.41	30.53	31.47	33.09	30- 40	28.40	852.5	94.9, 94.9
50	25.92	26.67	27.32	26.66	24.74	24.08	24.45	25.60	40- 50	23.63	876.1	97.5, 97.5
60	8.518	8.483	7.867	8.385	8.192	7.653	6.971	7.840	50- 60	14.76	890.9	99.2, 99.2
70	3.060	2.857	2.699	2.888	3.107	2.815	2.689	2.802	60- 70	5.073	895.9	99.7, 99.7
80	1.165	1.059	0.8770	1.019	0.9120	1.062	0.8705	1.027	70- 80	2.056	898.0	100, 100
90	0.0440	0.0413	0.0385	0.0386	0.1347	0.1295	0.1321	0.1324	80- 90	0.3821	898.4	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): 864.53 lm

%lum = 96.2%

%lamp = 96.2%

Conical surface Flux(120deg): 890.87 lm

%lum = 99.2%

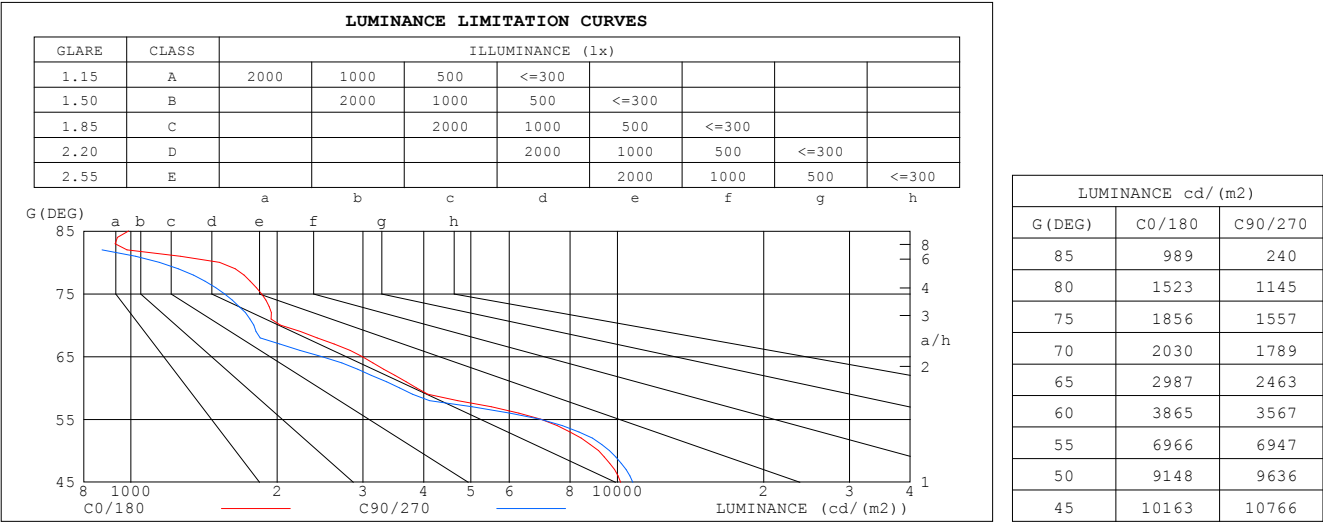
%lamp = 99.2%

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 3500K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:



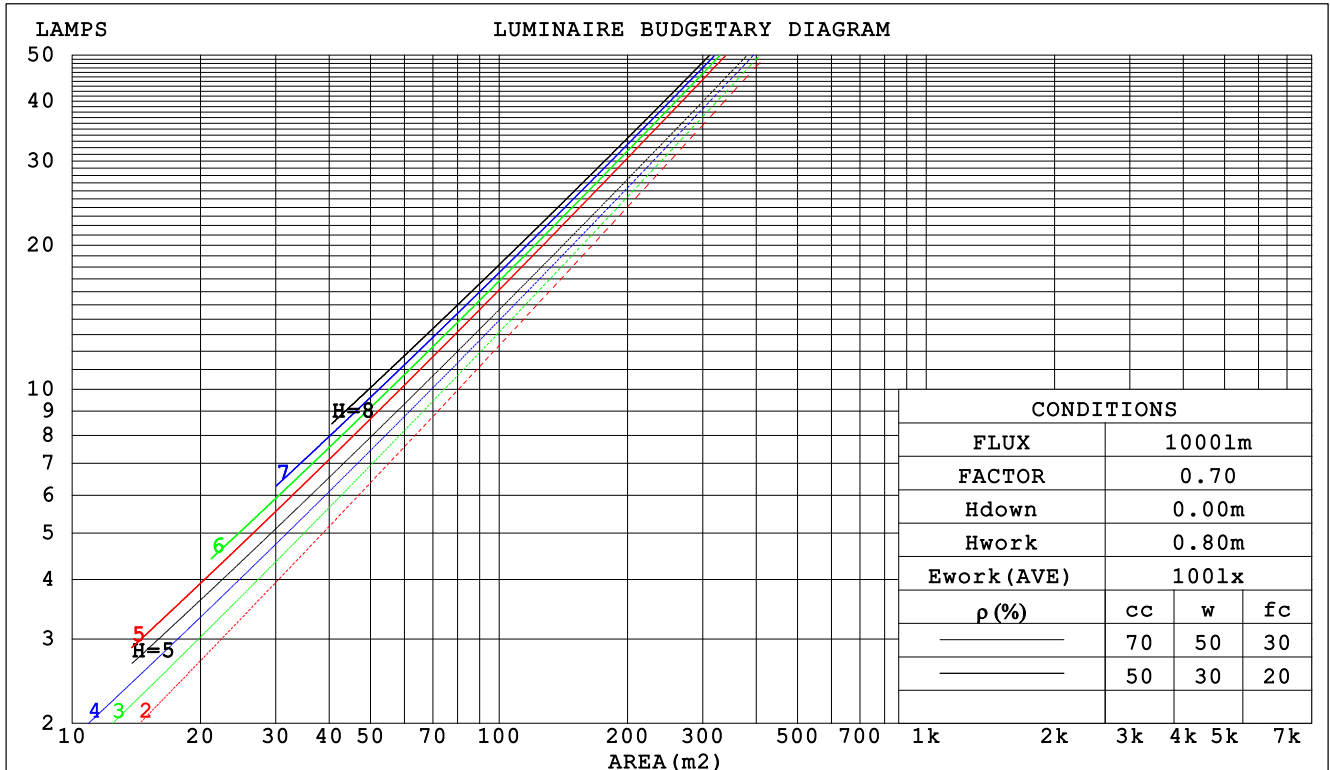
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-09-25

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 3500K	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	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	1.03	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	.95	.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	.85	.90	.87	.84	.89	.86	.83	.87	.85	.82	.81
6.0	.89	.85	.81	.88	.84	.81	.87	.83	.81	.86	.83	.80	.85	.82	.80	.78
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	.81	.78	.75	.80	.77	.75	.80	.77	.74	.73
9.0	.80	.76	.73	.80	.75	.73	.79	.75	.72	.78	.75	.72	.77	.74	.72	.71
10.0	.78	.73	.70	.77	.73	.70	.76	.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: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 3500K	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	.148 .084 .027	.141 .081 .026	.129 .074 .024	.117 .068 .022	.107 .062 .020	
2.0	.138 .076 .023	.133 .073 .023	.122 .068 .021	.113 .063 .020	.104 .059 .019	
3.0	.129 .069 .021	.125 .067 .020	.116 .063 .019	.108 .059 .018	.101 .056 .017	
4.0	.121 .063 .019	.118 .062 .018	.110 .058 .017	.103 .056 .017	.097 .053 .016	
5.0	.115 .058 .017	.111 .057 .017	.105 .055 .016	.099 .052 .016	.094 .050 .015	
6.0	.108 .054 .016	.106 .053 .015	.100 .051 .015	.095 .049 .015	.090 .048 .014	
7.0	.103 .051 .014	.100 .050 .014	.096 .048 .014	.091 .047 .014	.087 .045 .013	
8.0	.098 .048 .013	.096 .047 .013	.092 .046 .013	.088 .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	.088 .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	.125 .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	.039 .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	.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: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 3500K					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	13.2	13.4	12.4	13.1	12.6	13.2	13.4
3H	12.5	13.2	12.8	13.4	13.6	12.4	13.1	12.7	13.3	13.5
4H	12.6	13.2	12.8	13.4	13.6	12.5	13.1	12.7	13.3	13.5
6H	12.6	13.2	12.9	13.4	13.7	12.4	13.0	12.7	13.3	13.5
8H	12.6	13.2	12.9	13.4	13.7	12.4	13.0	12.7	13.2	13.5
12H	12.5	13.1	12.9	13.4	13.6	12.4	12.9	12.7	13.2	13.4
4H 2H	12.5	13.1	12.7	13.3	13.5	12.5	13.1	12.7	13.3	13.5
3H	12.7	13.2	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	12.8	13.3	13.2	13.6	13.9	12.6	13.1	13.0	13.4	13.7
8H	12.8	13.2	13.2	13.6	13.9	12.6	13.0	13.0	13.3	13.7
12H	12.8	13.2	13.2	13.5	13.9	12.5	12.9	12.9	13.3	13.7
8H 4H	12.7	13.1	13.1	13.5	13.8	12.5	13.0	12.9	13.3	13.7
6H	12.8	13.1	13.2	13.5	13.9	12.6	12.9	13.0	13.3	13.7
8H	12.8	13.1	13.2	13.5	13.9	12.5	12.9	13.0	13.3	13.7
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	12.5	12.9	12.9	13.3	13.6
6H	12.7	13.0	13.2	13.5	13.9	12.5	12.8	13.0	13.3	13.7
8H	12.7	13.0	13.2	13.5	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	+ 2.1 / - 2.9					+ 2.5 / - 3.4				

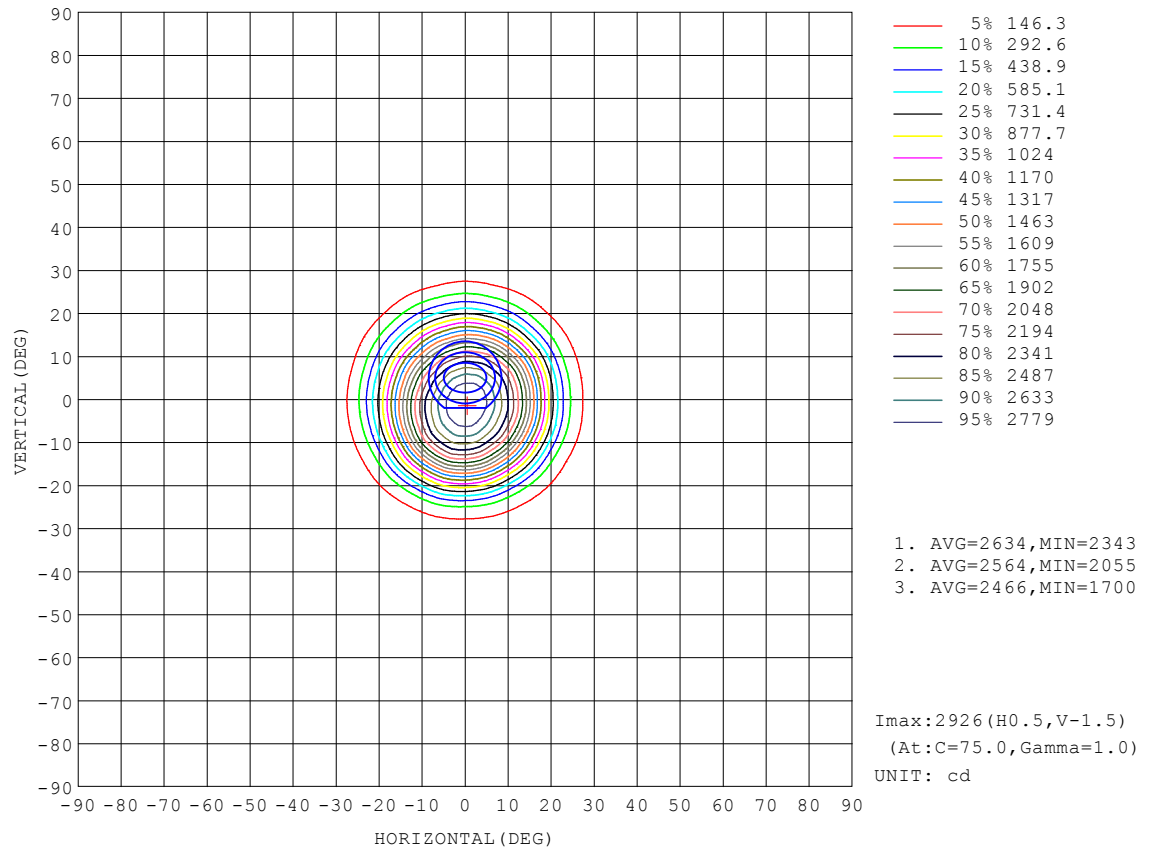
CIE Pub.117, 898.4 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -0.4$)

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 3500K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:

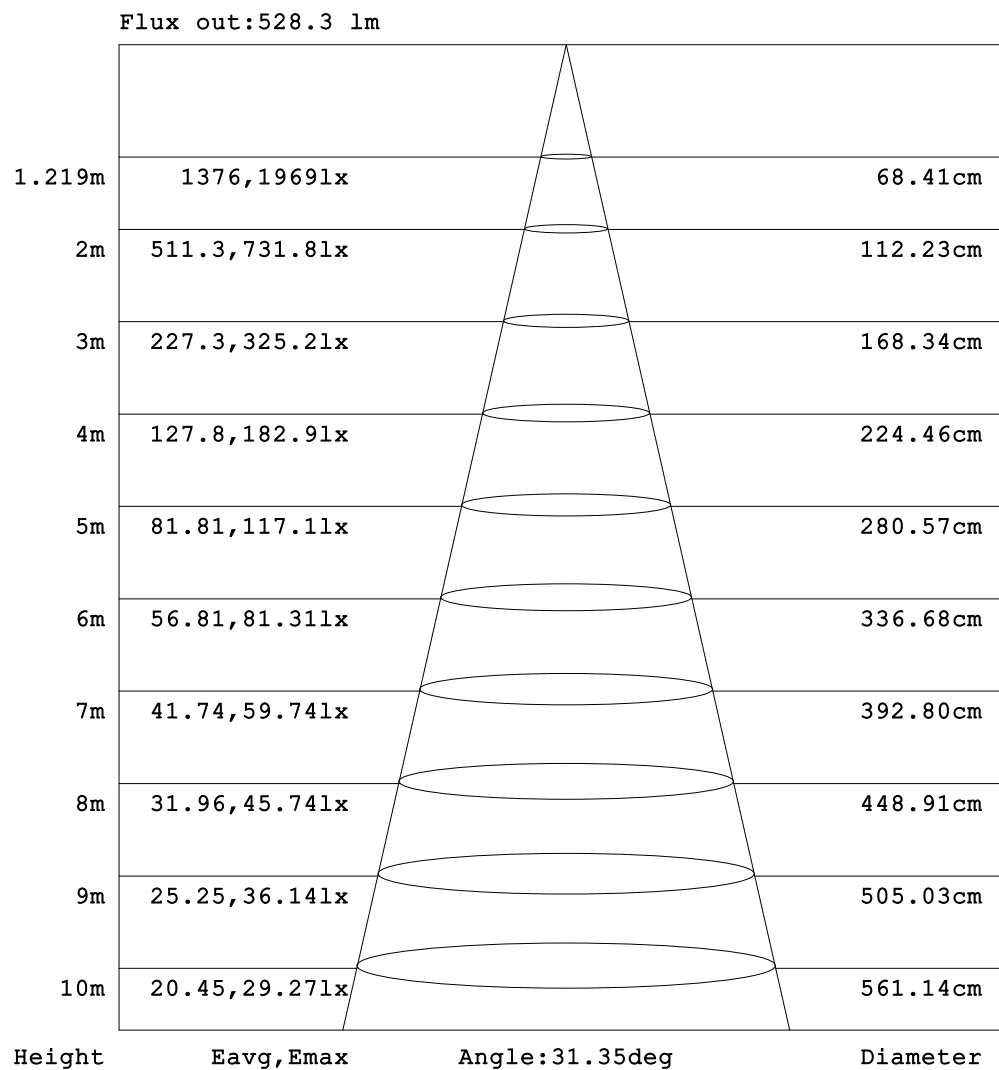


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-09-25

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 3500K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:



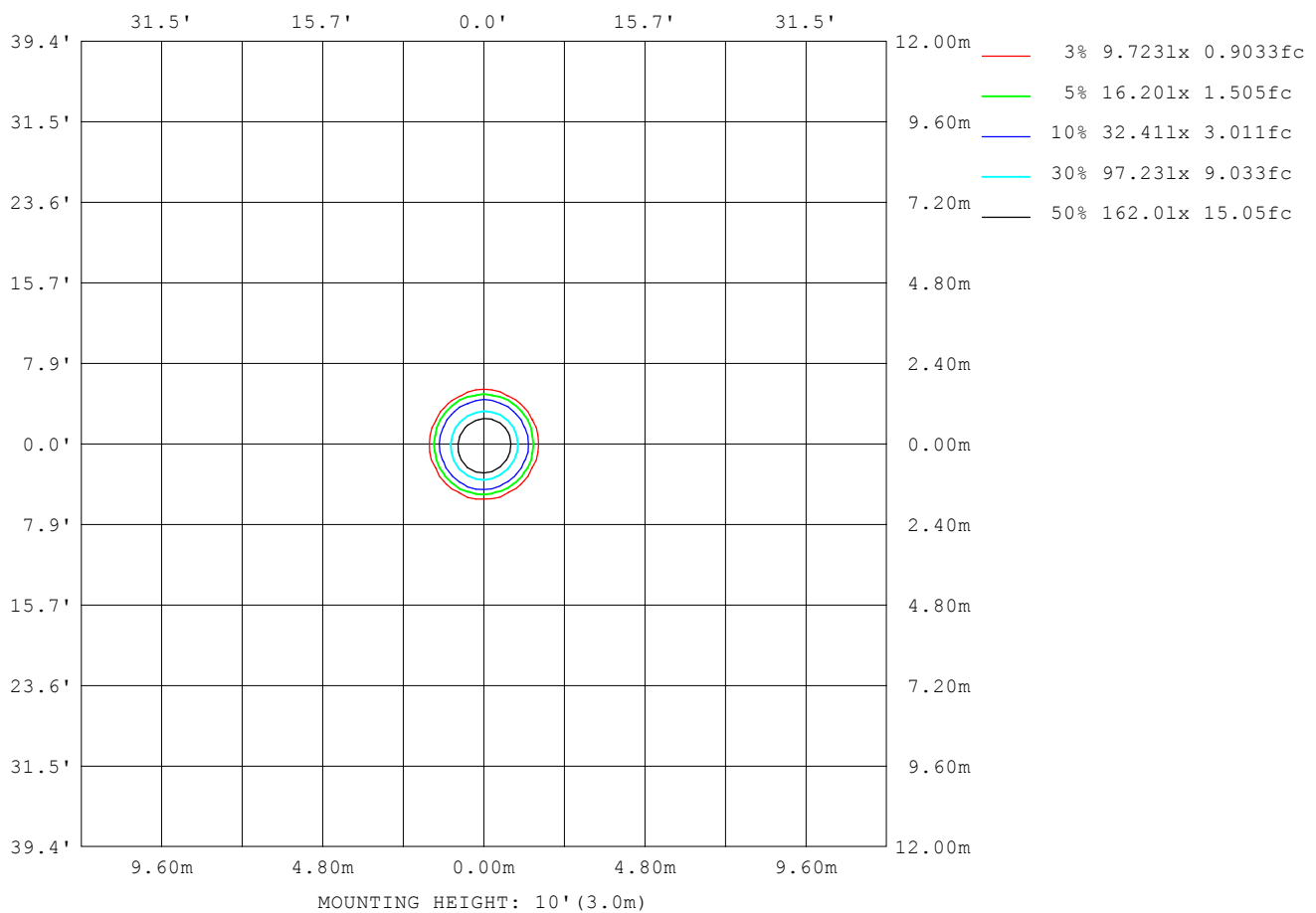
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 3500K	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 3500K	WEIGHT:
SPEC.:LB11800	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ75MM	Shielding Angle:

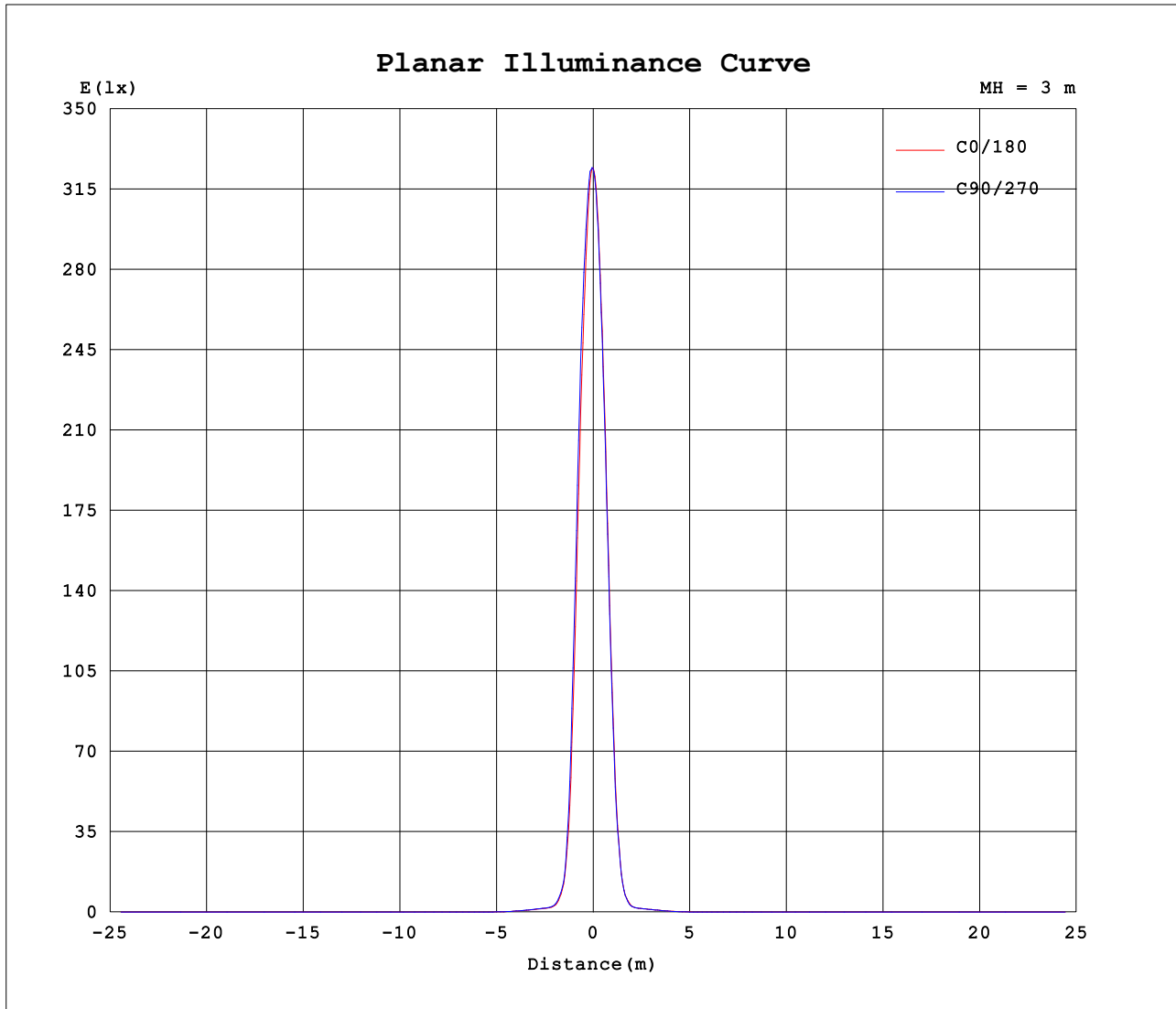
AvgL	cd/m2
L_0~180 (65) av	2915
L_0~180 (75) av	1881
L_0~180 (85) av	833
L_90~270 (65) av	2371
L_90~270 (75) av	1544
L_90~270 (85) av	291
L_45 (65) av	2753
L_45 (75) av	1719
L_45 (85) av	546

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:

