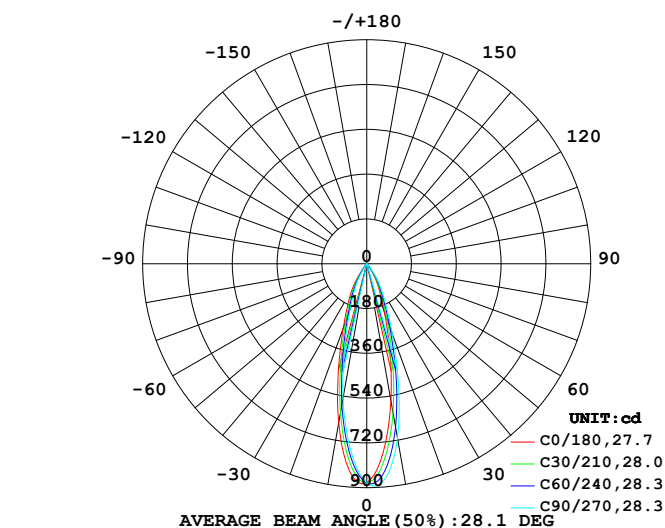


LUMINAIRE PHOTOMETRIC TEST REPORT

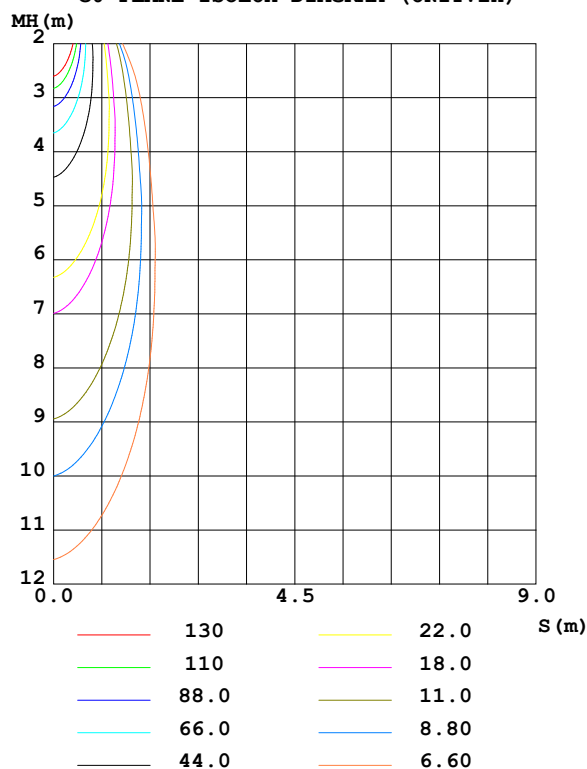
Test:U:48.22V I:0.0801A P:5.765W PF:0.9531 Freq:0Hz Lamp Flux:417.6161x1 lm		
NAME: 6561	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: NORDECOR	SUR.:	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 72.44 lm/W			
MODEL		Imax (cd)	896.4	S/MH (C0/180)	0.50
NOMINAL POWER(W)		LOR (%)	100.0	S/MH (C90/270)	0.42
RATED VOLTAGE (V)	--	TOTAL FLUX (lm)	283.68	η UP,DN (C0-180)	0.0,55.5
NOMINAL FLUX (lm)	417.6161	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,44.5
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	--	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: 10.0deg/s
Temperature:25.3℃
Operators:
Test Date:2023-11-03

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [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	559.3	641.4	711.7	705.0	649.0	584.5	550.2	525.6	0~ 10	70.41	70.41	24.8, 24.8
20	207.7	259.7	299.2	307.6	278.2	230.6	197.9	187.8	10~ 20	112.0	182.4	64.3, 64.3
30	72.21	93.93	112.7	127.5	115.0	81.76	62.68	61.44	20~ 30	70.47	252.9	89.1, 89.1
40	8.802	12.85	16.55	20.07	15.33	9.857	6.779	7.455	30~ 40	26.01	278.9	98.3, 98.3
50	1.584	1.977	2.160	2.085	1.742	1.292	1.140	1.309	40~ 50	3.969	282.9	99.7, 99.7
60	0.2664	0.3285	0.3772	0.3274	0.2756	0.1711	0.1623	0.1806	50~ 60	0.6953	283.6	100, 100
70	0.0337	0.0366	0.0367	0.0222	0.0212	0.0222	0.0260	0.0299	60~ 70	0.0872	283.7	100, 100
80	0.0116	0.0116	0.0116	0.0077	0.0096	0.0077	0.0087	0.0097	70~ 80	0.0186	283.7	100, 100
90	0.0019	0.0019	0.0029	0.0029	0.0000	0.0010	0.0029	0.0029	80~ 90	0.0059	283.7	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): 281.75 lm

%lum = 99.3%

%lamp = 99.3%

Conical surface Flux(120deg): 283.57 lm

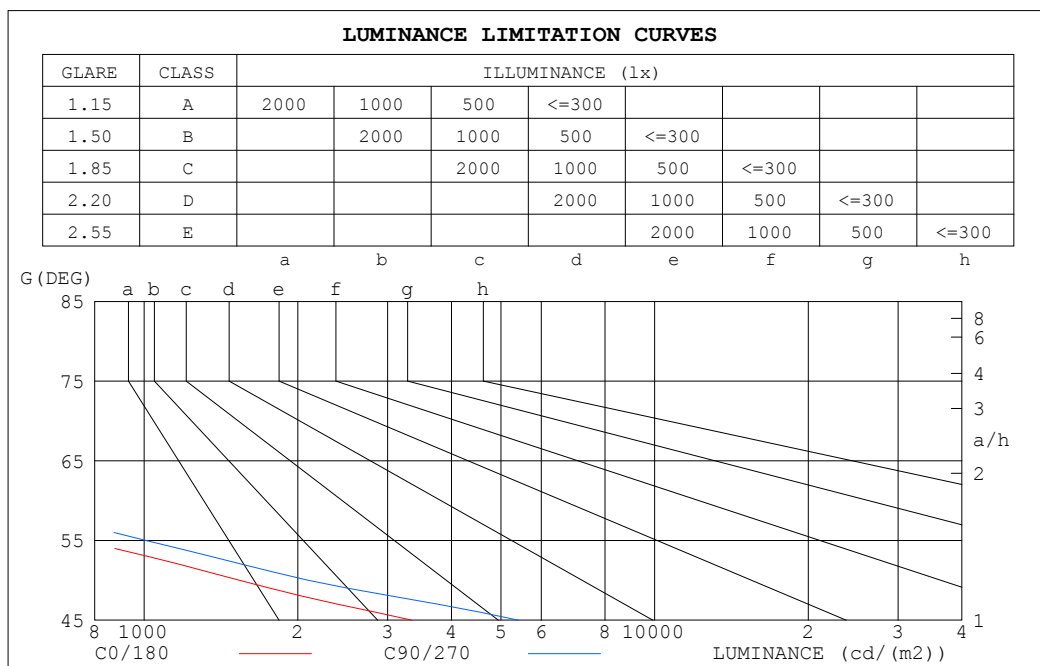
%lum = 100.0%

%lamp = 100.0%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: 10.0deg/s
 Temperature:25.3°C
 Operators:
 Test Date:2023-11-03

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES



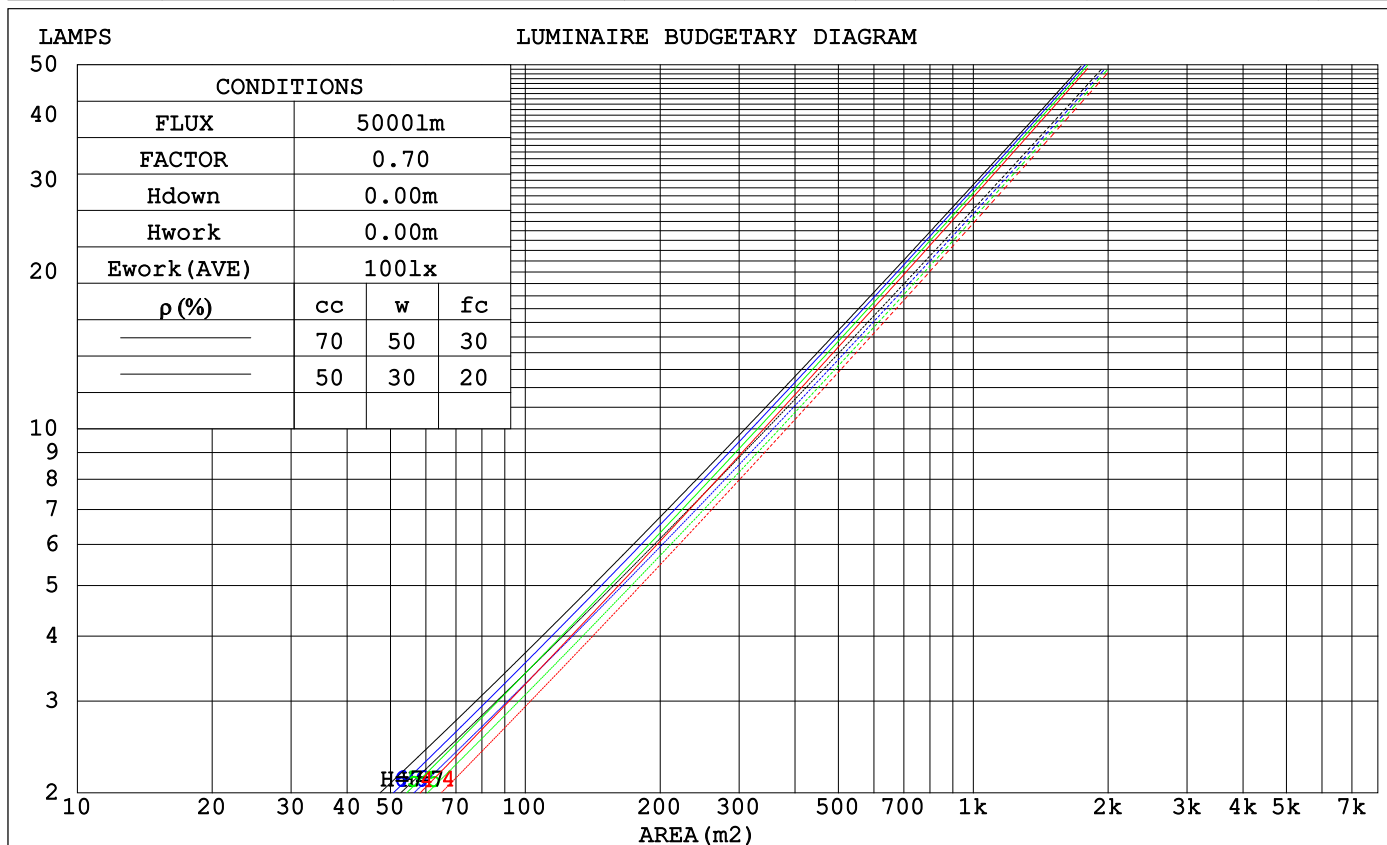
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	62	55
80	42	42
75	49	54
70	62	67
65	87	147
60	333	471
55	761	1009
50	1540	2100
45	3345	5415

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature: 25.3°C
Operators:
Test Date: 2023-11-03

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity: 65.0%
Test Distance: 9.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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	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	1.04	1.01	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.94	.99	.96	.93	.97	.94	.91	.95	.92	.90	.92	.90	.89	.87
4.0	.96	.92	.88	.95	.91	.88	.93	.89	.87	.91	.88	.86	.89	.87	.85	.83
5.0	.92	.87	.84	.91	.86	.83	.89	.85	.82	.88	.84	.82	.86	.83	.81	.80
6.0	.88	.83	.79	.87	.82	.79	.86	.82	.79	.84	.81	.78	.83	.80	.78	.77
7.0	.84	.79	.76	.83	.79	.76	.82	.78	.75	.81	.78	.75	.80	.77	.75	.73
8.0	.81	.76	.73	.80	.76	.73	.79	.75	.72	.78	.75	.72	.77	.74	.72	.71
9.0	.78	.73	.70	.77	.73	.70	.76	.72	.69	.76	.72	.69	.75	.71	.69	.68
10.0	.75	.70	.67	.74	.70	.67	.74	.70	.67	.73	.69	.67	.72	.69	.67	.65



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature:25.3℃
Operators:
Test Date:2023-11-03

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

WEC AND CCEC

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	.150	.085	.027	.143	.082	.026	.131	.075	.024	.119	.069	.022	.109	.063	.020	
2.0	.141	.077	.024	.135	.075	.023	.125	.069	.022	.115	.065	.020	.107	.060	.019	
3.0	.133	.071	.021	.128	.069	.021	.119	.065	.020	.111	.061	.019	.104	.057	.018	
4.0	.125	.065	.019	.121	.064	.019	.114	.060	.018	.107	.058	.017	.101	.055	.017	
5.0	.119	.061	.018	.116	.059	.017	.109	.057	.017	.103	.054	.016	.098	.052	.016	
6.0	.113	.057	.016	.110	.056	.016	.105	.054	.016	.100	.052	.015	.095	.050	.015	
7.0	.108	.053	.015	.105	.053	.015	.101	.051	.015	.096	.049	.014	.092	.048	.014	
8.0	.103	.050	.014	.101	.050	.014	.097	.048	.014	.093	.047	.014	.089	.046	.013	
9.0	.099	.048	.013	.097	.047	.013	.093	.046	.013	.090	.045	.013	.086	.044	.013	
10.0	.095	.046	.013	.093	.045	.013	.090	.044	.012	.087	.043	.012	.084	.042	.012	

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	.017	.015	.013	
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.126	.098	.077	.108	.085	.067	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.117	.086	.064	.100	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.108	.076	.054	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.101	.068	.046	.087	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.095	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.090	.056	.034	.077	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.085	.052	.030	.073	.045	.026	.051	.032	.019	.030	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature:25.3℃
Operators:
Test Date:2023-11-03

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

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	11.5	12.2	11.7	12.4	12.5	14.3	15.0	14.5	15.2	15.3
3H	11.3	12.0	11.5	12.2	12.4	14.1	14.8	14.3	15.0	15.2
4H	11.2	11.9	11.5	12.1	12.3	14.0	14.7	14.3	14.9	15.1
6H	11.1	11.8	11.4	12.0	12.2	13.9	14.6	14.2	14.8	15.0
8H	11.1	11.7	11.4	11.9	12.2	13.9	14.5	14.2	14.7	15.0
12H	11.0	11.6	11.4	11.9	12.2	13.8	14.4	14.2	14.7	14.9
4H 2H	11.2	11.9	11.5	12.1	12.3	14.0	14.7	14.3	14.9	15.1
3H	11.1	11.6	11.4	11.9	12.2	13.8	14.4	14.2	14.7	14.9
4H	11.0	11.5	11.3	11.8	12.1	13.7	14.3	14.1	14.6	14.9
6H	10.9	11.3	11.2	11.6	12.0	13.6	14.1	14.0	14.4	14.8
8H	10.8	11.2	11.2	11.6	11.9	13.6	14.0	14.0	14.4	14.7
12H	10.7	11.1	11.2	11.5	11.9	13.5	13.9	13.9	14.3	14.7
8H 4H	10.8	11.2	11.2	11.6	11.9	13.6	14.0	14.0	14.4	14.7
6H	10.7	11.0	11.1	11.4	11.9	13.5	13.8	13.9	14.2	14.6
8H	10.6	10.9	11.1	11.4	11.8	13.4	13.7	13.9	14.2	14.6
12H	10.6	10.8	11.0	11.3	11.8	13.4	13.6	13.8	14.1	14.5
12H 4H	10.7	11.1	11.2	11.5	11.9	13.5	13.9	13.9	14.3	14.7
6H	10.6	10.9	11.1	11.4	11.8	13.4	13.7	13.9	14.2	14.6
8H	10.6	10.8	11.0	11.3	11.8	13.4	13.6	13.8	14.1	14.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.2 / -13.7					+ 4.8 / -15.8				
1.5H	+ 5.4 / - 9.5					+ 7.2 / -12.4				
2.0H	+ 5.9 / -12.4					+ 7.2 / -13.1				

CIE Pub.117, 283.7 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -4.4)
Area: 0.0016 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature:25.3°C
Operators:
Test Date:2023-11-03

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

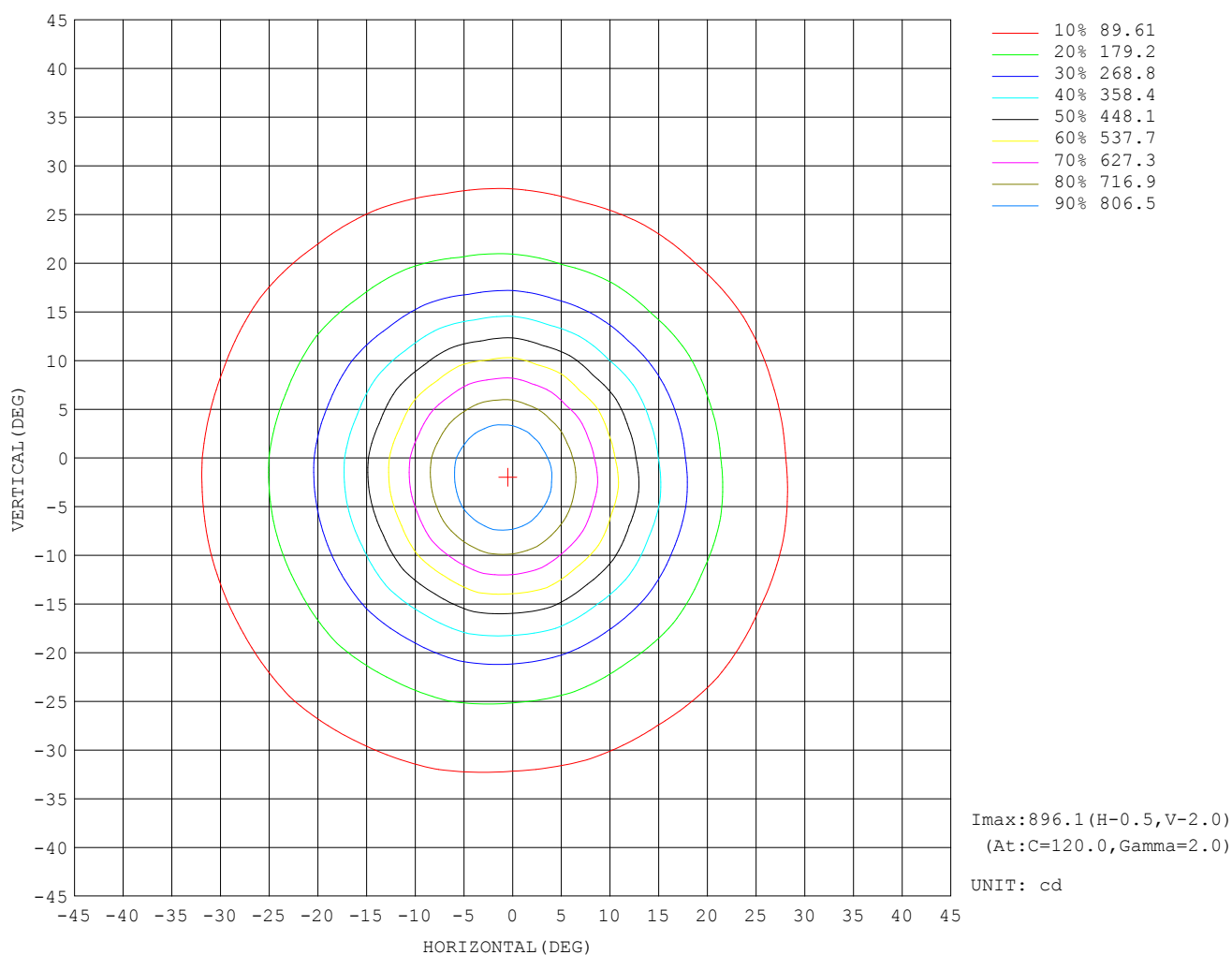
UTILIZATION FACTORS TABLE

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	85	81	90	85	81	89	84	81	78
0.80	98	92	89	97	92	89	96	91	88	85
1.00	101	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	107	103	100	106	102	100	104	101	99	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	109	107	111	108	106	108	105	104	97
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	107	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: 10.0deg/s
 Temperature: 25.3°C
 Operators:
 Test Date: 2023-11-03

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.463
 Humidity: 65.0%
 Test Distance: 9.000m [K=1.0000]
 Remarks:

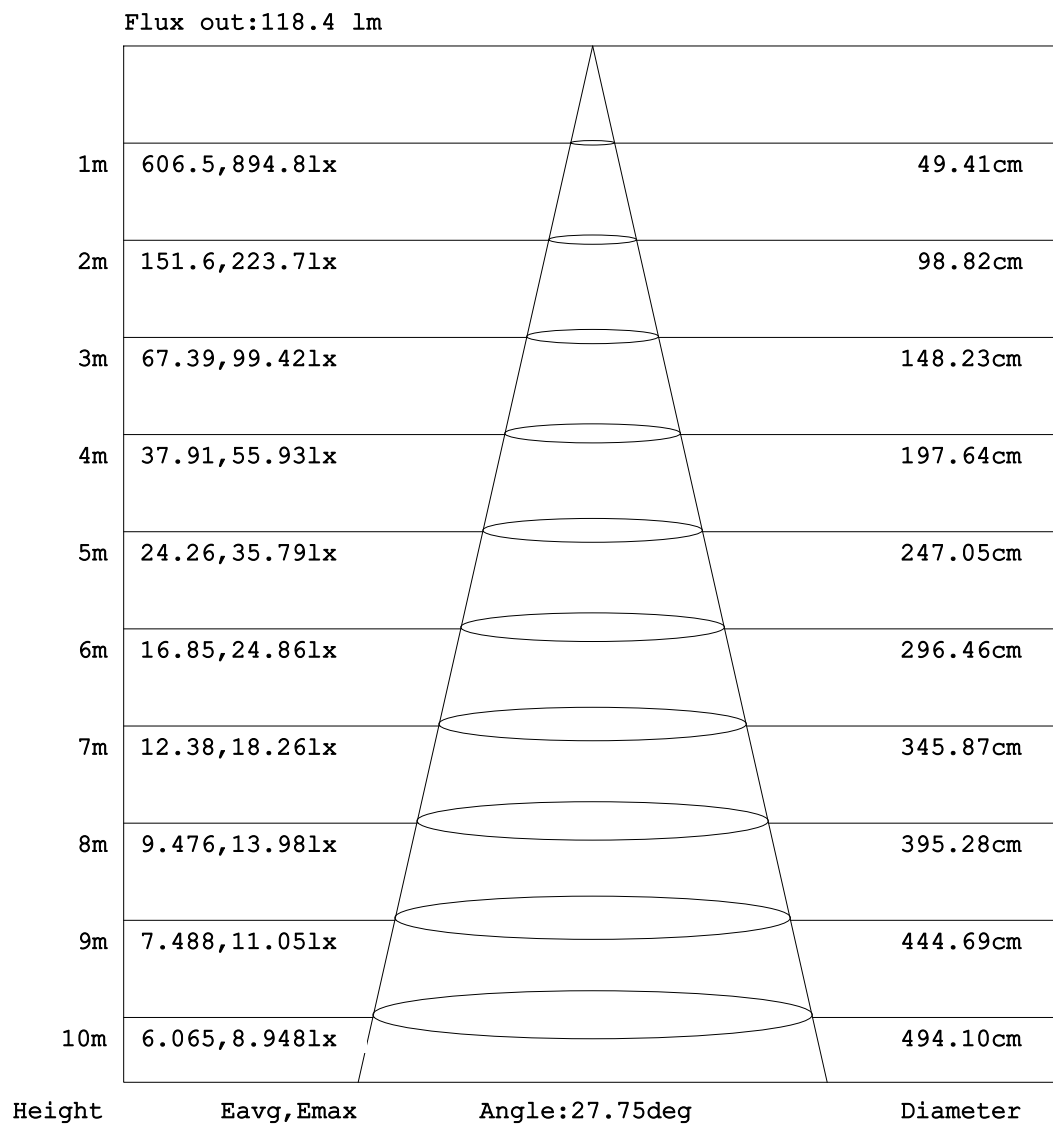
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature:25.3°C
Operators:
Test Date:2023-11-03

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

AAI Figure

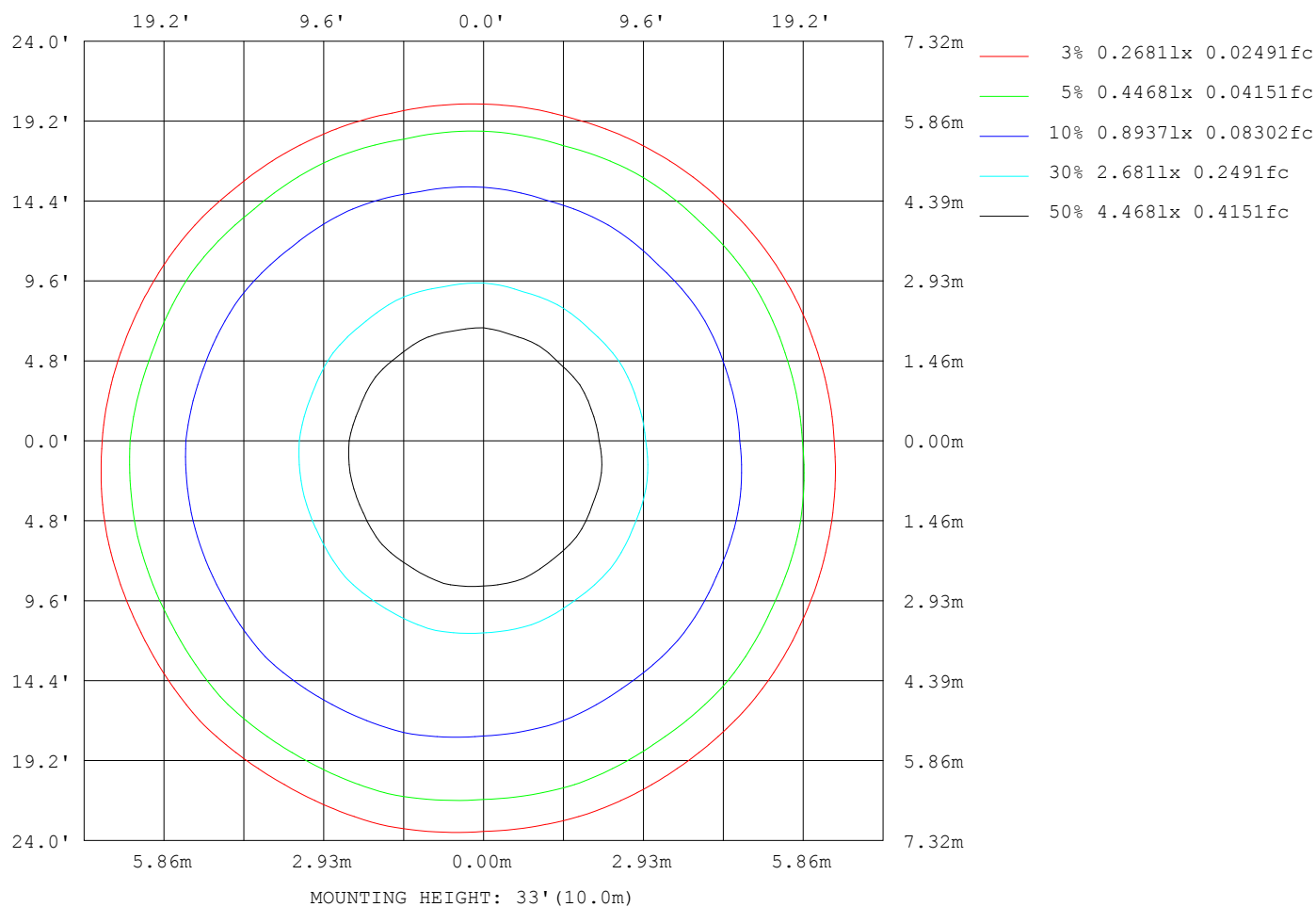


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature:25.3℃
Operators:
Test Date:2023-11-03

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

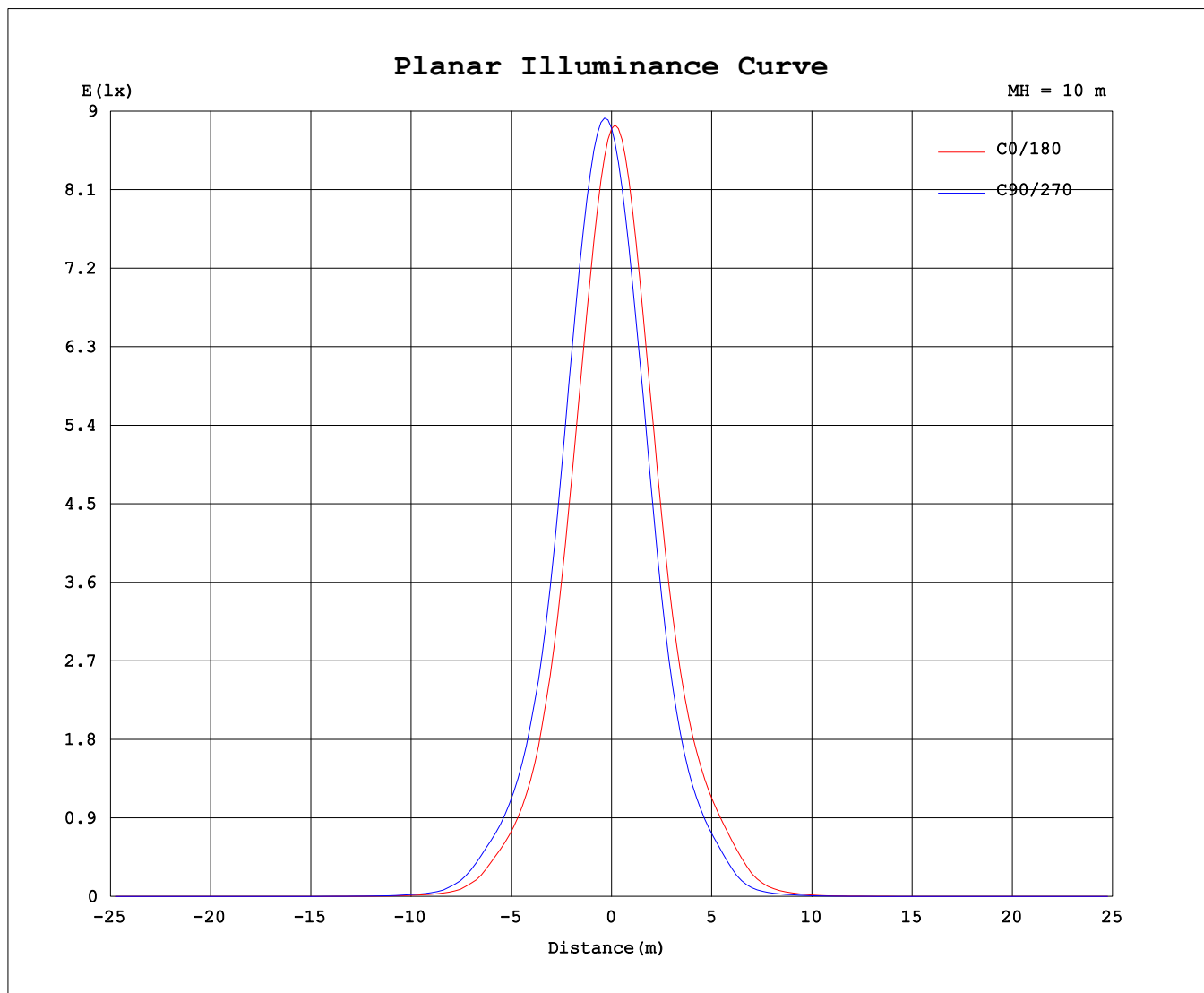
ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature: 25.3°C
Operators:
Test Date: 2023-11-03

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity: 65.0%
Test Distance: 9.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: 10.0deg/s
Temperature: 25.3°C
Operators:
Test Date: 2023-11-03

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity: 65.0%
Test Distance: 9.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

UNIT: cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

```

LUMINOUS DISTRIBUTION INTENSITY DATA

UNIT: cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.463
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

```