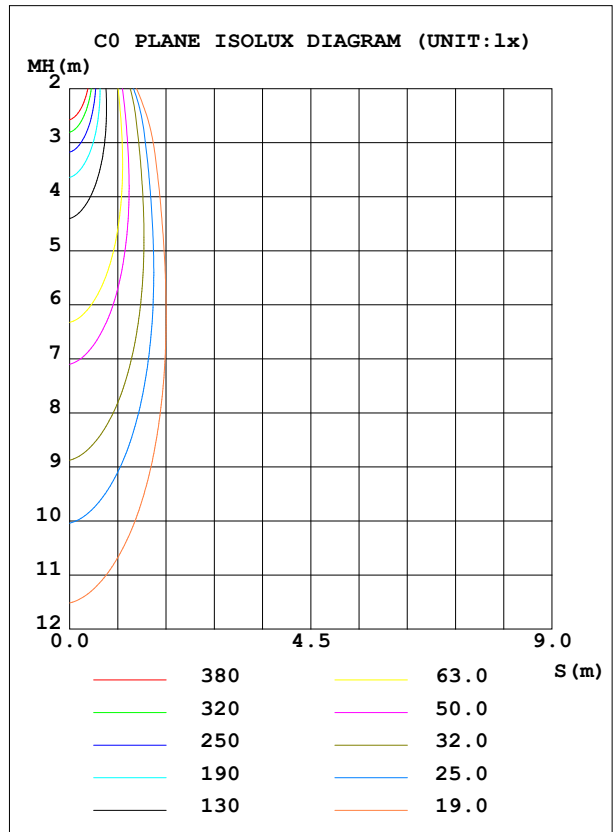
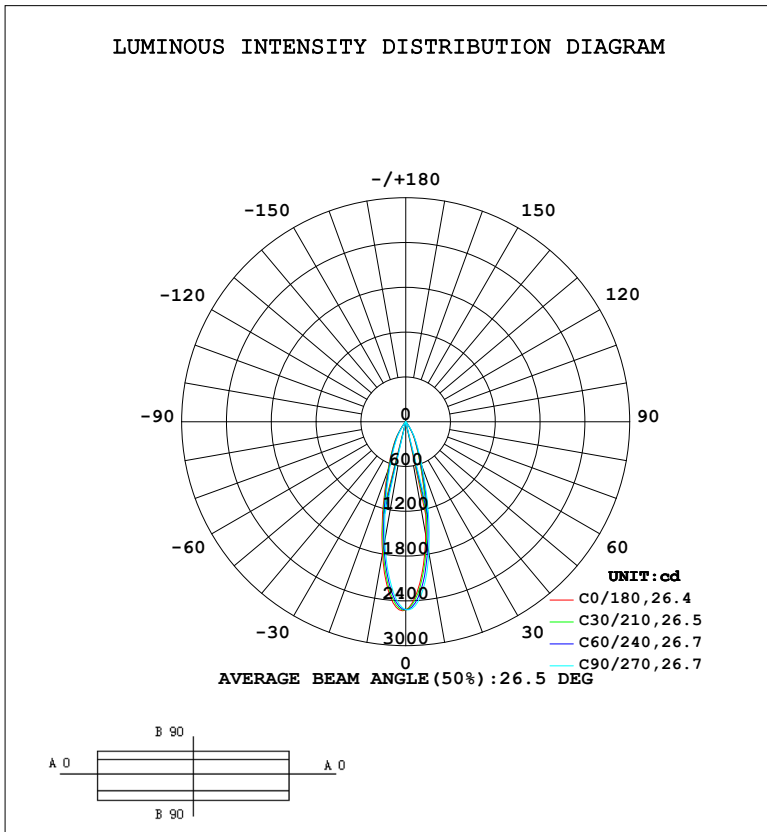


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:48.65V I:0.1319A P:11.908W PF:0.9091 Freq:50.00Hz Lamp Flux:736.156x1 lm		
NAME: 6554	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: NORDECOR	SUR.:	

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		Imax (cd)	2532	S/MH (C0/180)	0.48
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	0.43
RATED VOLTAGE (V)	--	TOTAL FLUX (lm)	736.16	η UP, DN (C0-180)	0.0, 50.9
NOMINAL FLUX (lm)	736.156	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	--	η down (%)	100.0	CIBSE SHR MAX	0.30



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: 10.0deg/s
 Temperature: 25.3°C
 Operators:
 Test Date: 2023-11-06

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	1550	1659	1784	1830	1797	1706	1611	1527	0- 10	197.1	197.1	26.8,26.8
20	530.3	593.4	646.1	705.8	702.8	652.2	602.5	536.8	10- 20	293.0	490.1	66.6,66.6
30	180.8	203.7	223.3	260.8	276.6	248.8	212.1	180.4	20- 30	174.4	664.5	90.3,90.3
40	20.79	23.96	25.72	32.95	37.76	31.88	22.25	20.83	30- 40	60.88	725.4	98.5,98.5
50	3.424	3.545	3.644	4.005	4.422	4.016	3.551	3.450	40- 50	8.836	734.2	99.7,99.7
60	0.6052	0.5683	0.6324	0.6456	0.7811	0.6709	0.6178	0.5550	50- 60	1.600	735.8	100,100
70	0.0868	0.0828	0.0896	0.0800	0.0933	0.0936	0.0954	0.0887	60- 70	0.2165	736.1	100,100
80	0.0434	0.0443	0.0472	0.0434	0.0433	0.0453	0.0443	0.0424	70- 80	0.0668	736.1	100,100
90	0.0251	0.0289	0.0270	0.0270	0.0231	0.0270	0.0289	0.0289	80- 90	0.0370	736.2	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): 731.75 lm

%lum = 99.4%
 %lamp = 99.4%

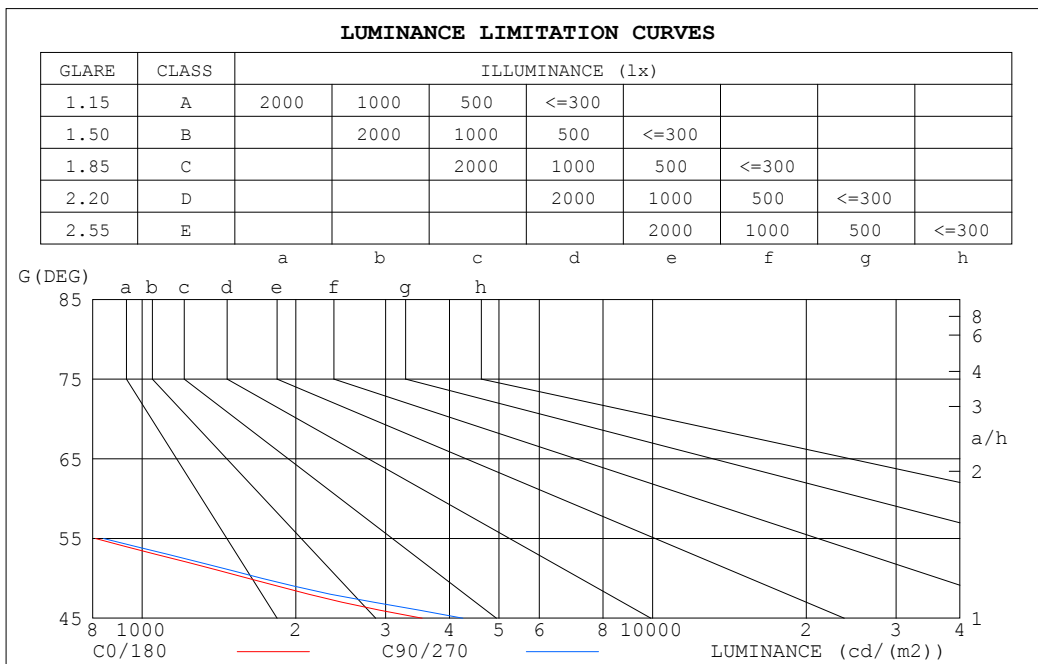
Conical surface Flux(120deg): 735.84 lm

%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:2023-11-06

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



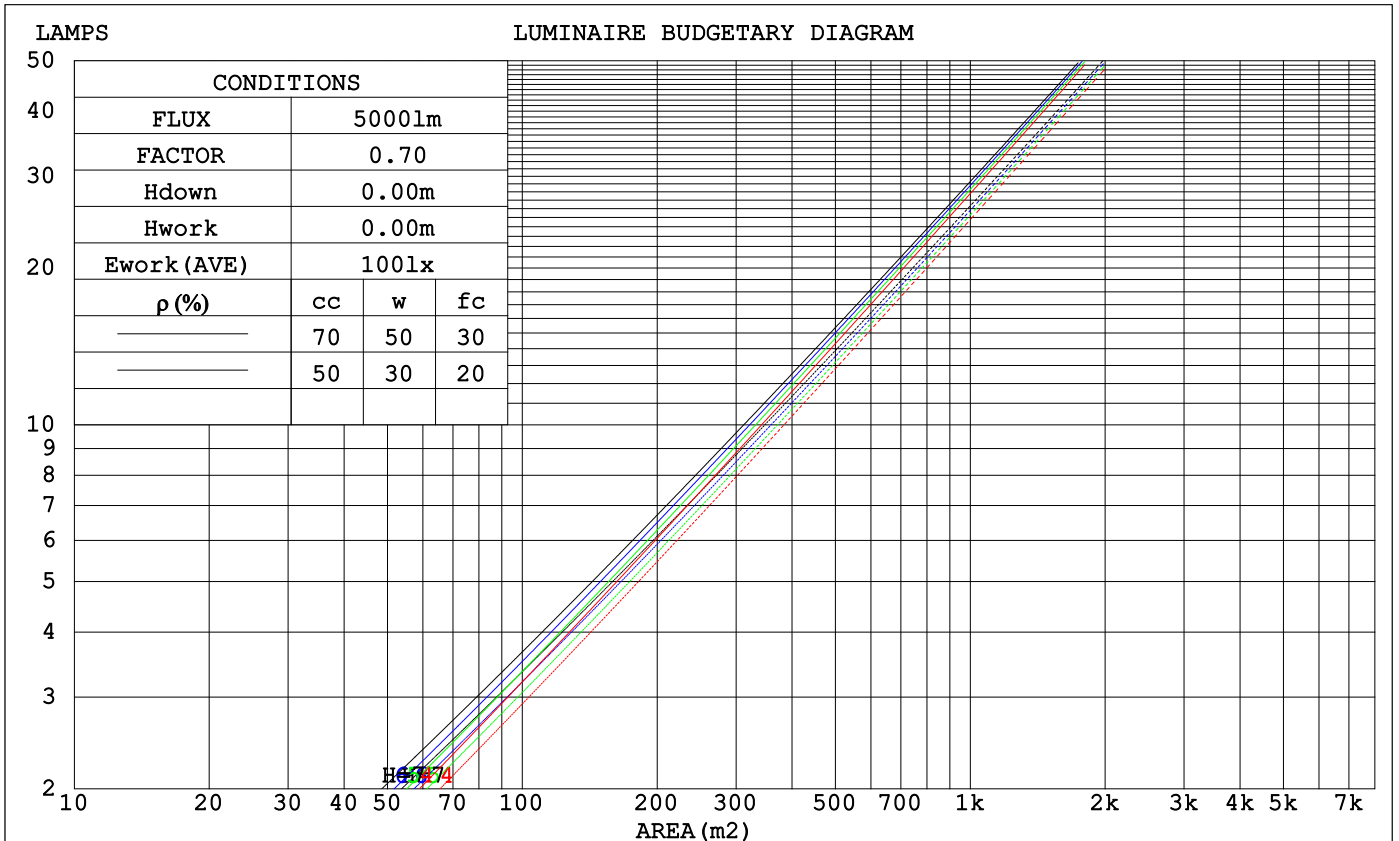
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	124	117
80	76	82
75	72	77
70	77	79
65	91	102
60	367	383
55	811	841
50	1614	1718
45	3535	4249

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: 10.0deg/s
 Temperature: 25.3°C
 Operators:
 Test Date: 2023-11-06

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

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	1.03	1.01	1.00	.99	.98	.98	.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	.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	.84	.91	.87	.84	.90	.86	.83	.88	.85	.83	.87	.84	.82	.81
6.0	.88	.84	.80	.88	.83	.80	.86	.83	.80	.85	.82	.79	.84	.81	.79	.78
7.0	.85	.80	.77	.84	.80	.77	.83	.79	.76	.82	.79	.76	.81	.78	.76	.75
8.0	.82	.77	.74	.81	.77	.74	.80	.76	.73	.79	.76	.73	.78	.75	.73	.72
9.0	.79	.74	.71	.78	.74	.71	.77	.73	.71	.77	.73	.71	.76	.73	.70	.69
10.0	.76	.71	.68	.76	.71	.68	.75	.71	.68	.74	.71	.68	.74	.70	.68	.67



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: 10.0deg/s
 Temperature:25.3°C
 Operators:
 Test Date:2023-11-06

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

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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.148	.084	.027	.141	.080	.026	.128	.074	.024	.117	.067	.022	.106	.062	.020	
2.0	.138	.076	.023	.133	.073	.023	.122	.068	.021	.113	.063	.020	.104	.059	.019	
3.0	.130	.069	.021	.125	.067	.020	.117	.063	.019	.109	.060	.018	.101	.056	.017	
4.0	.123	.064	.019	.119	.062	.018	.112	.059	.018	.105	.056	.017	.098	.053	.016	
5.0	.116	.059	.017	.113	.058	.017	.107	.056	.016	.101	.053	.016	.095	.051	.015	
6.0	.111	.055	.016	.108	.054	.016	.102	.052	.015	.097	.050	.015	.092	.049	.014	
7.0	.106	.052	.015	.103	.051	.015	.098	.050	.014	.094	.048	.014	.089	.046	.014	
8.0	.101	.049	.014	.099	.049	.014	.094	.047	.013	.090	.046	.013	.087	.045	.013	
9.0	.097	.047	.013	.095	.046	.013	.091	.045	.013	.087	.044	.013	.084	.043	.012	
10.0	.093	.045	.012	.091	.044	.012	.088	.043	.012	.085	.042	.012	.082	.041	.012	

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						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	.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	.064	.046	.033	.037	.027	.020	.012	.009	.007	
7.0	.100	.068	.046	.086	.059	.040	.060	.042	.028	.035	.024	.017	.011	.008	.006	
8.0	.094	.062	.040	.081	.054	.034	.056	.038	.024	.033	.022	.015	.011	.007	.005	
9.0	.089	.056	.034	.076	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.084	.052	.030	.072	.045	.026	.050	.032	.019	.029	.019	.011	.009	.006	.004	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: 10.0deg/s
 Temperature:25.3°C
 Operators:
 Test Date:2023-11-06

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	10.9	11.6	11.1	11.8	11.9	12.3	13.0	12.5	13.1	13.3
3H	10.7	11.4	11.0	11.6	11.8	12.1	12.8	12.3	13.0	13.2
4H	10.7	11.3	10.9	11.5	11.7	12.0	12.7	12.3	12.9	13.1
6H	10.6	11.2	10.9	11.4	11.6	11.9	12.5	12.2	12.8	13.0
8H	10.5	11.1	10.8	11.4	11.6	11.9	12.5	12.2	12.7	13.0
12H	10.5	11.0	10.8	11.3	11.6	11.8	12.4	12.2	12.7	12.9
4H 2H	10.7	11.3	10.9	11.5	11.7	12.0	12.7	12.3	12.9	13.1
3H	10.5	11.0	10.8	11.3	11.6	11.8	12.4	12.2	12.7	12.9
4H	10.4	10.9	10.7	11.2	11.5	11.8	12.3	12.1	12.6	12.9
6H	10.3	10.7	10.7	11.1	11.4	11.7	12.1	12.0	12.4	12.8
8H	10.2	10.7	10.6	11.0	11.4	11.6	12.0	12.0	12.4	12.7
12H	10.2	10.6	10.6	10.9	11.3	11.5	11.9	11.9	12.3	12.7
8H 4H	10.2	10.7	10.6	11.0	11.4	11.6	12.0	12.0	12.4	12.7
6H	10.1	10.5	10.5	10.9	11.3	11.5	11.8	11.9	12.2	12.6
8H	10.1	10.4	10.5	10.8	11.2	11.4	11.7	11.9	12.2	12.6
12H	10.0	10.3	10.5	10.7	11.2	11.4	11.6	11.8	12.1	12.5
12H 4H	10.2	10.6	10.6	10.9	11.3	11.5	11.9	11.9	12.3	12.7
6H	10.1	10.4	10.5	10.8	11.2	11.4	11.7	11.9	12.2	12.6
8H	10.0	10.3	10.5	10.7	11.2	11.4	11.6	11.8	12.1	12.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.6 / -13.6					+ 4.4 / -14.6				
1.5H	+ 5.9 / -10.2					+ 6.8 / -11.3				
2.0H	+ 6.4 / -12.3					+ 7.1 / -13.0				

CIE Pub.117, 736.2 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.1)
 Area: 0.0033 m2

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: 10.0deg/s
 Temperature:25.3°C
 Operators:
 Test Date:2023-11-06

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:

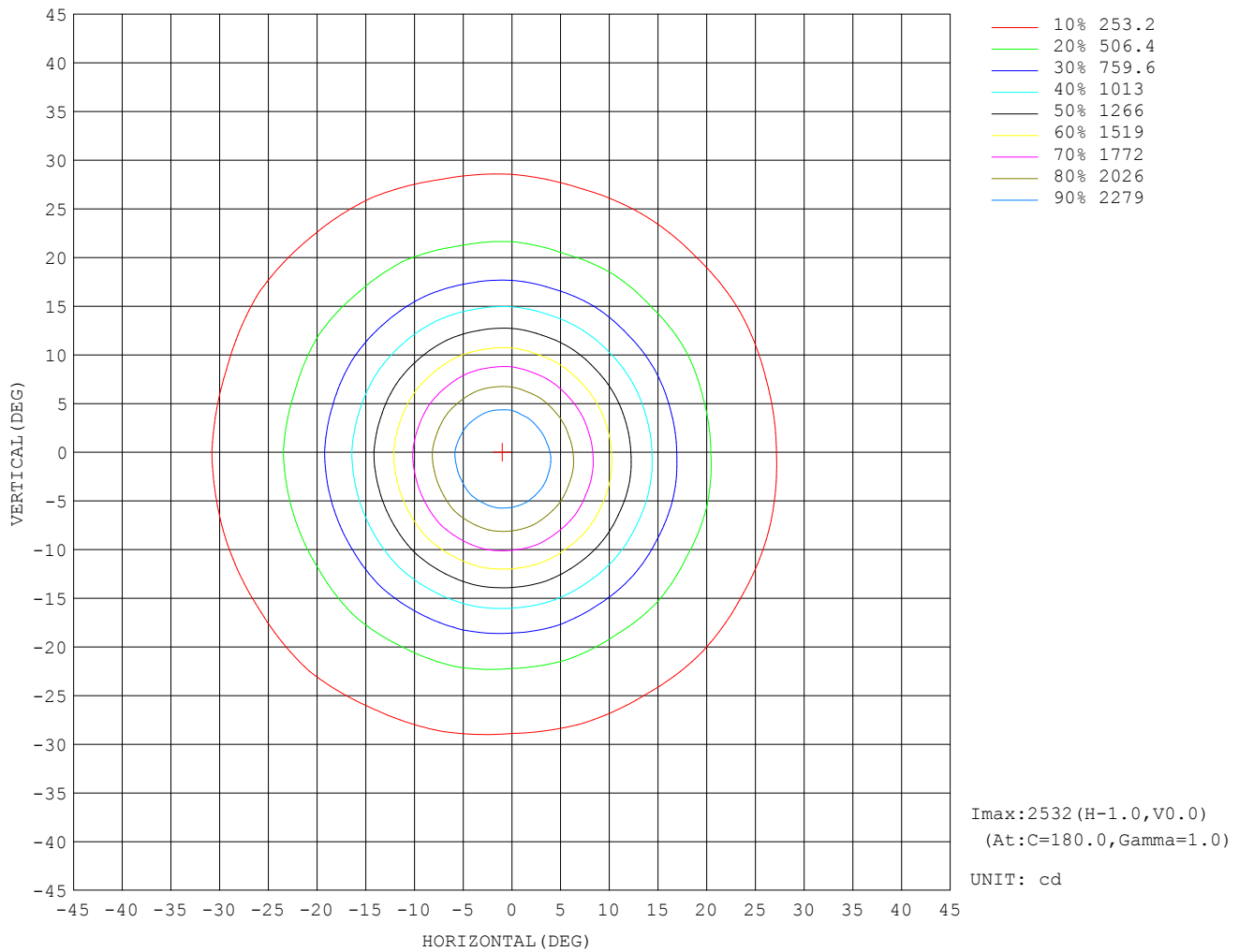
UTILIZATION FACTORS TABLE

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	92	89	85
1.00	102	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	108	103	100	106	103	100	104	101	99	95
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	110	107	111	108	106	108	105	104	98
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: 2023-11-06

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:

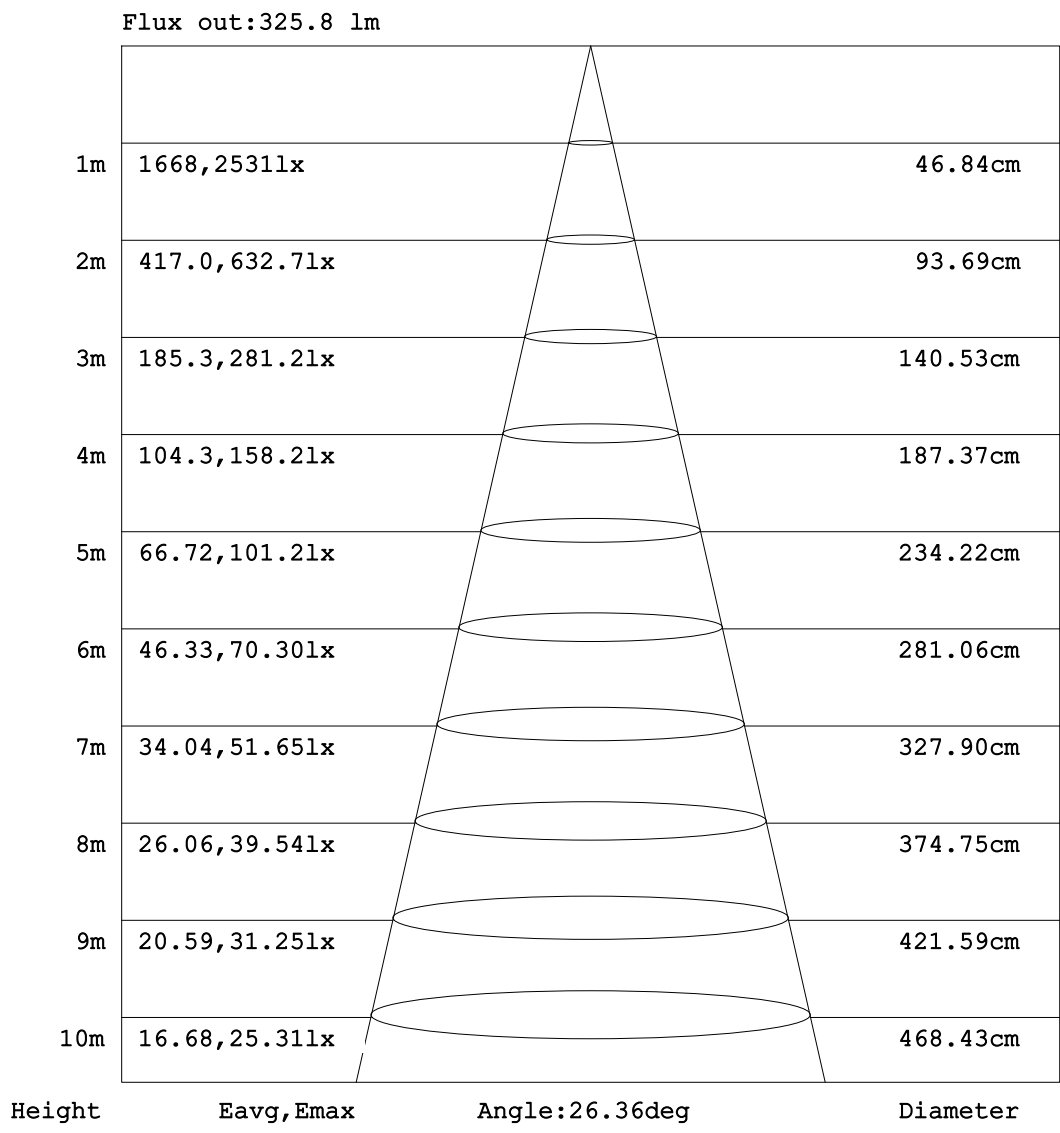
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: 10.0deg/s
 Temperature: 25.3°C
 Operators:
 Test Date: 2023-11-06

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

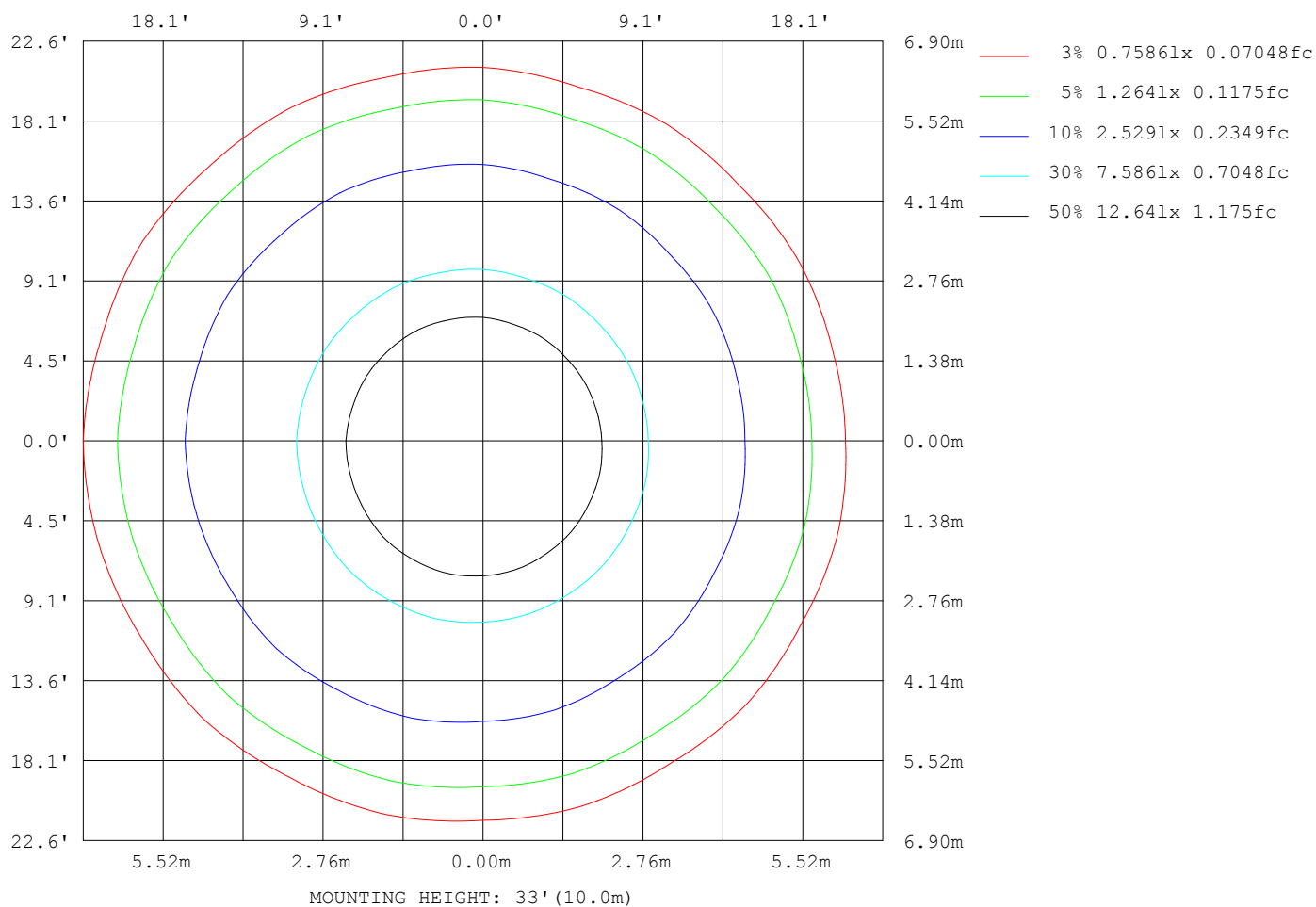


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: 10.0deg/s
 Temperature:25.3°C
 Operators:
 Test Date:2023-11-06

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:

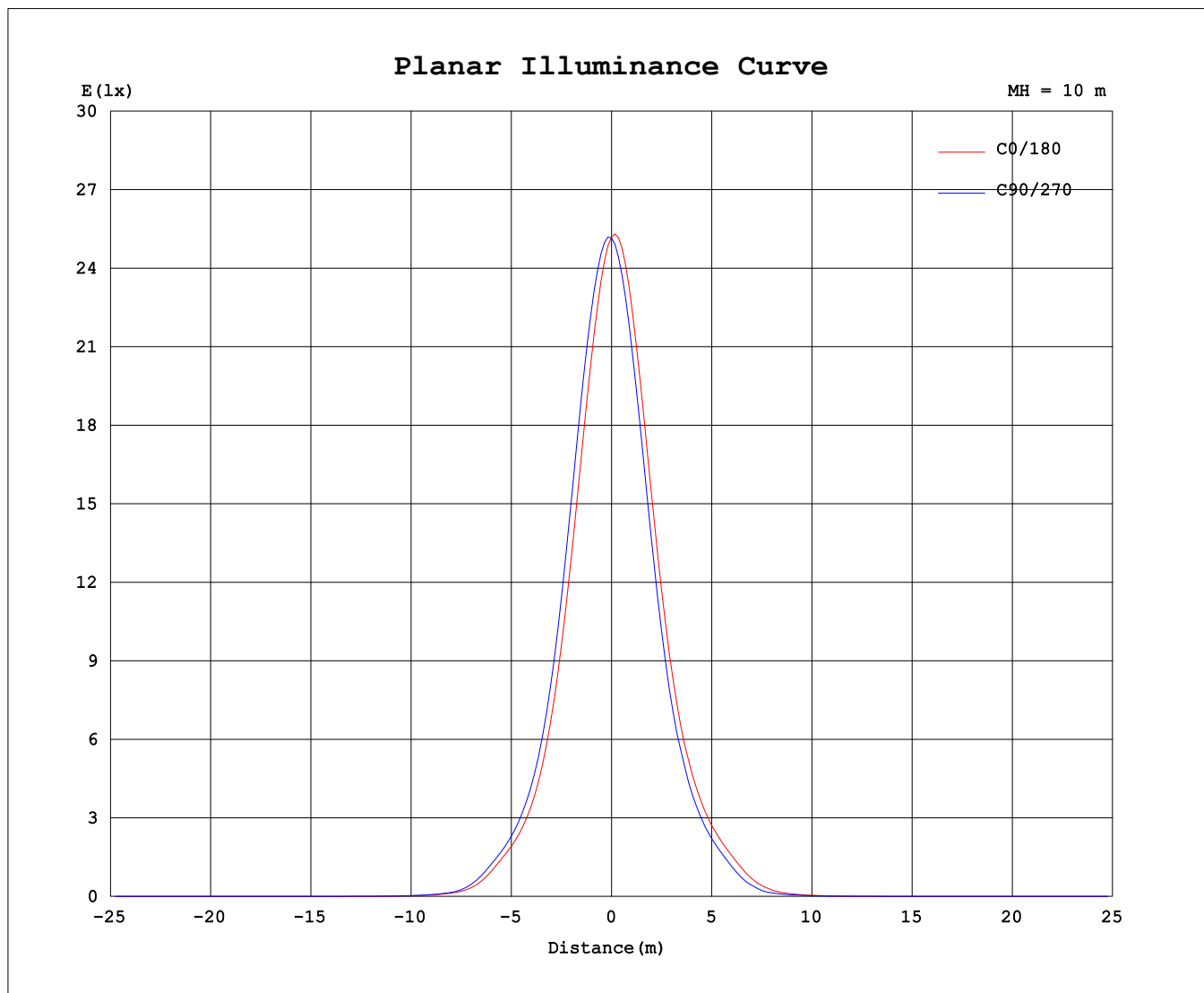
ISOLUX DIAGRAM



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: 10.0deg/s
 Temperature: 25.3°C
 Operators:
 Test Date: 2023-11-06

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: 2023-11-06

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:

