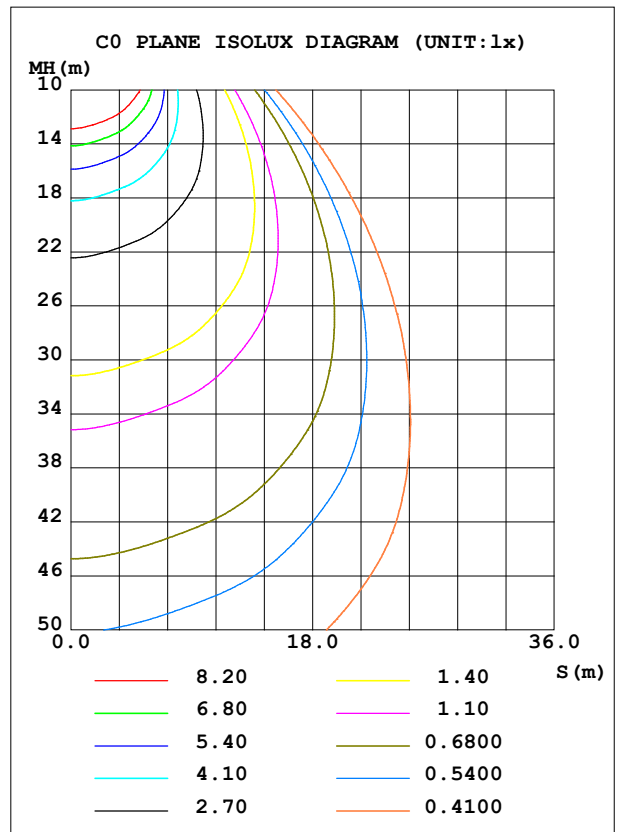
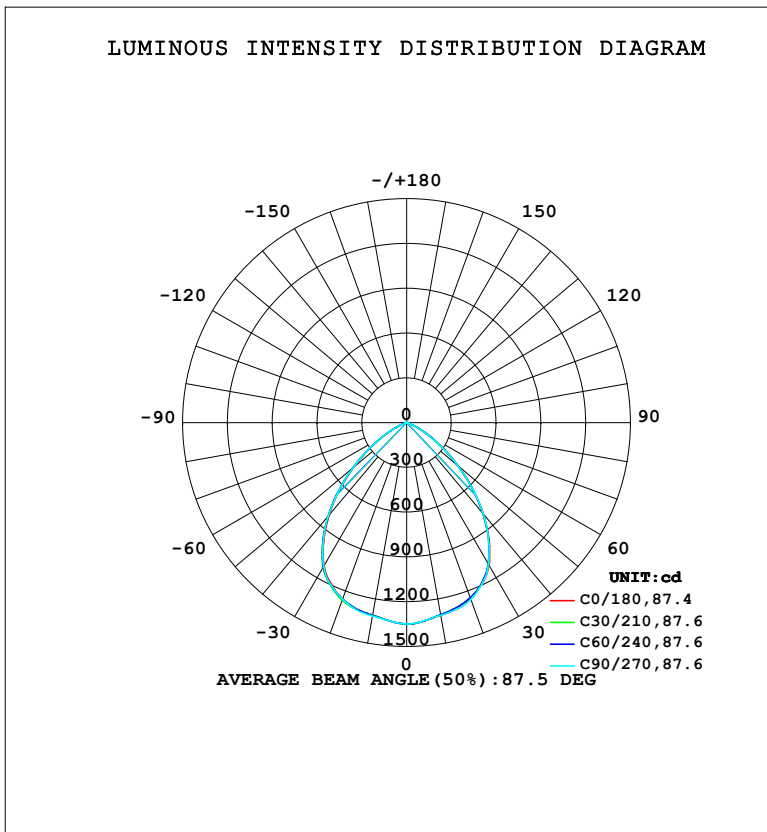


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.30V I:0.1674A P:22.490W PF:0.5834 Freq:50.00Hz Lamp Flux:2486.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	255	Imax (cd)	1349	S/MH (C0/180)	1.22
NOMINAL POWER (W)	3*7	LOR (%)	100.0	S/MH (C90/270)	1.22
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	2486.0	$\eta$ UP, DN (C0-180)	0.0,49.7
NOMINAL FLUX (lm)	2486.03	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.0,50.3
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	$\eta$ down (%)	100.0	CIBSE SHR MAX	1.25



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2024-11-21

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity: 65.0%  
 Test Distance: 9.401m [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	1310	1311	1311	1306	1310	1312	1315	1312	0- 10	126.5	126.5	5.09,5.09
20	1256	1255	1260	1255	1259	1261	1259	1255	10- 20	364.1	490.6	19.7,19.7
30	1103	1102	1096	1109	1107	1117	1113	1109	20- 30	549.6	1040	41.8,41.8
40	798.3	799.5	797.4	806.4	810.1	815.4	817.8	807.4	30- 40	602.0	1642	66.1,66.1
50	451.6	451.5	447.5	456.4	459.4	463.5	467.1	457.9	40- 50	485.4	2128	85.6,85.6
60	168.3	172.8	168.6	176.5	174.2	179.5	178.4	177.1	50- 60	272.1	2400	96.5,96.5
70	9.996	19.78	14.79	20.88	11.25	21.17	15.55	19.49	60- 70	82.58	2482	99.8,99.8
80	0.7890	0.8049	0.6157	0.7551	0.7168	0.7756	0.4946	0.8282	70- 80	3.087	2485	100,100
90	0.3823	0.4207	0.4705	0.4049	0.5018	0.4928	0.5550	0.5137	80- 90	0.6824	2486	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): 1908.2 lm

%lum = 76.8%

%lamp = 76.8%

Conical surface Flux(130deg): 2459.8 lm

%lum = 98.9%

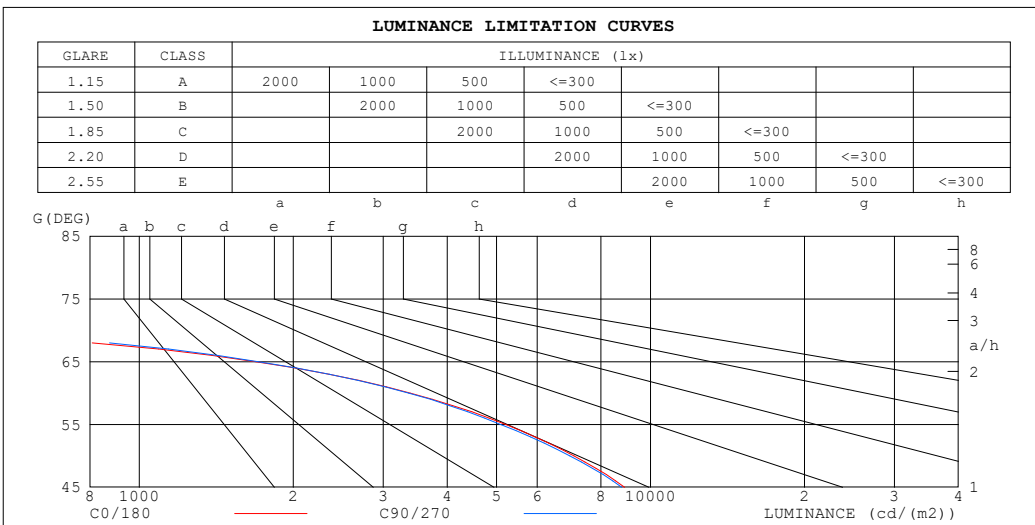
%lamp = 98.9%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2024-11-21

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:9.401m [K=1.0000]  
 Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:230.30V I:0.1674A P:22.490W PF:0.5834 Freq:50.00Hz Lamp Flux:2486.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	85	60
80	46	35
75	45	38
70	295	432
65	1692	1712
60	3392	3366
55	5210	5092
50	7083	6949
45	8898	8783

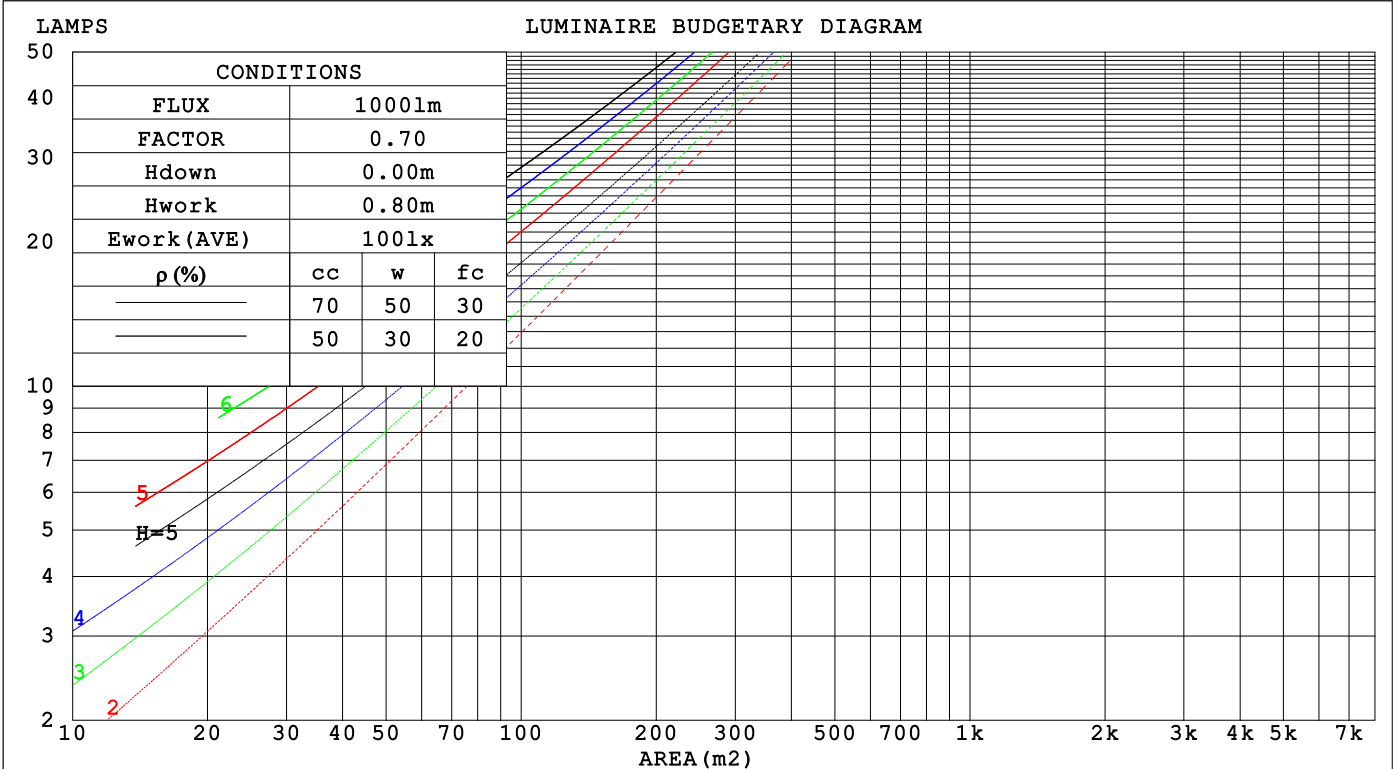
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2024-11-21

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:9.401m [K=1.0000]  
 Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:230.30V I:0.1674A P:22.490W PF:0.5834 Freq:50.00Hz Lamp Flux:2486.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
	ρw	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	1.00
1.0	1.08	1.05	1.03	1.06	1.04	1.01	1.02	.90	.98	.98	.97	.95	.95	.93	.92	.90
2.0	.98	.93	.89	.96	.92	.88	.93	.89	.86	.90	.87	.84	.87	.84	.82	.80
3.0	.89	.82	.77	.87	.81	.77	.85	.80	.75	.82	.78	.74	.80	.76	.73	.71
4.0	.81	.73	.68	.79	.73	.68	.77	.71	.67	.75	.70	.66	.73	.69	.65	.63
5.0	.73	.66	.60	.72	.65	.60	.70	.64	.59	.68	.63	.59	.67	.62	.58	.56
6.0	.67	.59	.54	.66	.59	.54	.64	.58	.53	.63	.57	.53	.61	.56	.52	.51
7.0	.61	.54	.49	.61	.53	.48	.59	.53	.48	.58	.52	.48	.57	.51	.47	.46
8.0	.57	.49	.44	.56	.49	.44	.55	.48	.44	.54	.48	.43	.52	.47	.43	.42
9.0	.52	.45	.40	.52	.45	.40	.51	.44	.40	.50	.44	.40	.49	.43	.39	.38
10.0	.49	.41	.37	.48	.41	.37	.47	.41	.37	.46	.40	.36	.45	.40	.36	.35



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2024-11-21

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:9.401m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:230.30V I:0.1674A P:22.490W PF:0.5834 Freq:50.00Hz		
Lamp Flux:2486.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

$\rho_{CC}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.221	.126	.040	.215	.122	.039	.202	.116	.037	.190	.110	.035	.179	.104	.033	
2.0	.218	.119	.037	.212	.117	.036	.201	.112	.035	.191	.107	.033	.181	.103	.032	
3.0	.210	.112	.033	.204	.109	.033	.195	.106	.032	.186	.102	.031	.178	.098	.030	
4.0	.200	.104	.031	.195	.102	.030	.187	.099	.030	.179	.096	.029	.172	.093	.028	
5.0	.190	.097	.028	.186	.095	.028	.178	.093	.027	.171	.090	.027	.165	.088	.026	
6.0	.180	.090	.026	.176	.089	.026	.170	.087	.025	.163	.085	.025	.158	.083	.025	
7.0	.171	.084	.024	.167	.083	.024	.161	.082	.024	.156	.080	.023	.151	.078	.023	
8.0	.162	.079	.022	.159	.078	.022	.154	.077	.022	.149	.075	.022	.144	.074	.022	
9.0	.154	.074	.021	.151	.074	.021	.146	.072	.021	.142	.071	.020	.137	.070	.020	
10.0	.146	.070	.019	.144	.069	.019	.139	.068	.019	.135	.067	.019	.131	.066	.019	

$\rho_{CC}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	.174	.157	.141	.149	.135	.122	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.162	.132	.107	.139	.114	.092	.095	.079	.064	.055	.046	.038	.018	.015	.012	
3.0	.153	.114	.083	.131	.098	.072	.090	.068	.050	.052	.040	.030	.017	.013	.010	
4.0	.145	.100	.066	.124	.086	.057	.085	.060	.040	.049	.035	.024	.016	.011	.008	
5.0	.137	.089	.053	.118	.077	.046	.081	.054	.033	.047	.032	.019	.015	.010	.006	
6.0	.131	.080	.044	.112	.070	.038	.078	.049	.027	.045	.029	.016	.015	.009	.005	
7.0	.125	.073	.037	.107	.063	.032	.074	.044	.023	.043	.026	.014	.014	.009	.005	
8.0	.119	.067	.032	.103	.058	.028	.071	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.114	.062	.028	.098	.054	.024	.068	.038	.017	.040	.022	.010	.013	.007	.003	
10.0	.109	.058	.024	.094	.050	.021	.065	.036	.015	.038	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2024-11-21

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:9.401m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:230.30V I:0.1674A P:22.490W PF:0.5834 Freq:50.00Hz										
Lamp Flux:2486.03x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.: 3000K			DIM.:			SERIAL No.:				
MFR.: EVERFINE			SUR.:			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	14.7	16.0	15.0	16.2	16.4	14.7	15.9	14.9	16.1	16.3
3H	14.6	15.8	14.9	16.0	16.2	14.5	15.7	14.8	15.9	16.1
4H	14.5	15.6	14.8	15.8	16.1	14.5	15.5	14.7	15.8	16.0
6H	14.4	15.4	14.7	15.7	15.9	14.4	15.4	14.7	15.6	15.9
8H	14.4	15.3	14.7	15.6	15.9	14.3	15.3	14.6	15.5	15.8
12H	14.3	15.2	14.7	15.5	15.8	14.3	15.2	14.6	15.5	15.8
4H 2H	14.7	15.8	15.0	16.0	16.2	14.6	15.7	14.9	15.9	16.2
3H	14.6	15.5	14.9	15.8	16.1	14.5	15.4	14.9	15.7	16.0
4H	14.5	15.3	14.9	15.6	16.0	14.4	15.3	14.8	15.6	15.9
6H	14.4	15.1	14.8	15.5	15.8	14.3	15.1	14.7	15.4	15.8
8H	14.4	15.0	14.8	15.4	15.8	14.3	15.0	14.7	15.3	15.7
12H	14.3	14.9	14.7	15.3	15.7	14.2	14.9	14.7	15.2	15.6
8H 4H	14.4	15.0	14.8	15.4	15.8	14.3	15.0	14.7	15.3	15.7
6H	14.3	14.8	14.7	15.2	15.6	14.2	14.8	14.6	15.2	15.6
8H	14.2	14.7	14.7	15.1	15.6	14.2	14.6	14.6	15.1	15.5
12H	14.2	14.6	14.7	15.0	15.5	14.1	14.5	14.6	15.0	15.4
12H 4H	14.3	14.9	14.7	15.3	15.7	14.3	14.9	14.7	15.2	15.6
6H	14.2	14.7	14.7	15.1	15.6	14.2	14.6	14.6	15.1	15.5
8H	14.2	14.6	14.7	15.0	15.5	14.1	14.5	14.6	15.0	15.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.3 / - 2.2					+ 1.4 / - 2.3				
1.5H	+ 0.7 / - 1.2					+ 0.7 / - 1.2				
2.0H	+ 2.8 / - 4.3					+ 2.8 / - 4.5				

CIE Pub.117, 2486 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.2)  
 Area: 0.1 m2

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2024-11-21

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:9.401m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:230.30V I:0.1674A P:22.490W PF:0.5834 Freq:50.00Hz Lamp Flux:2486.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

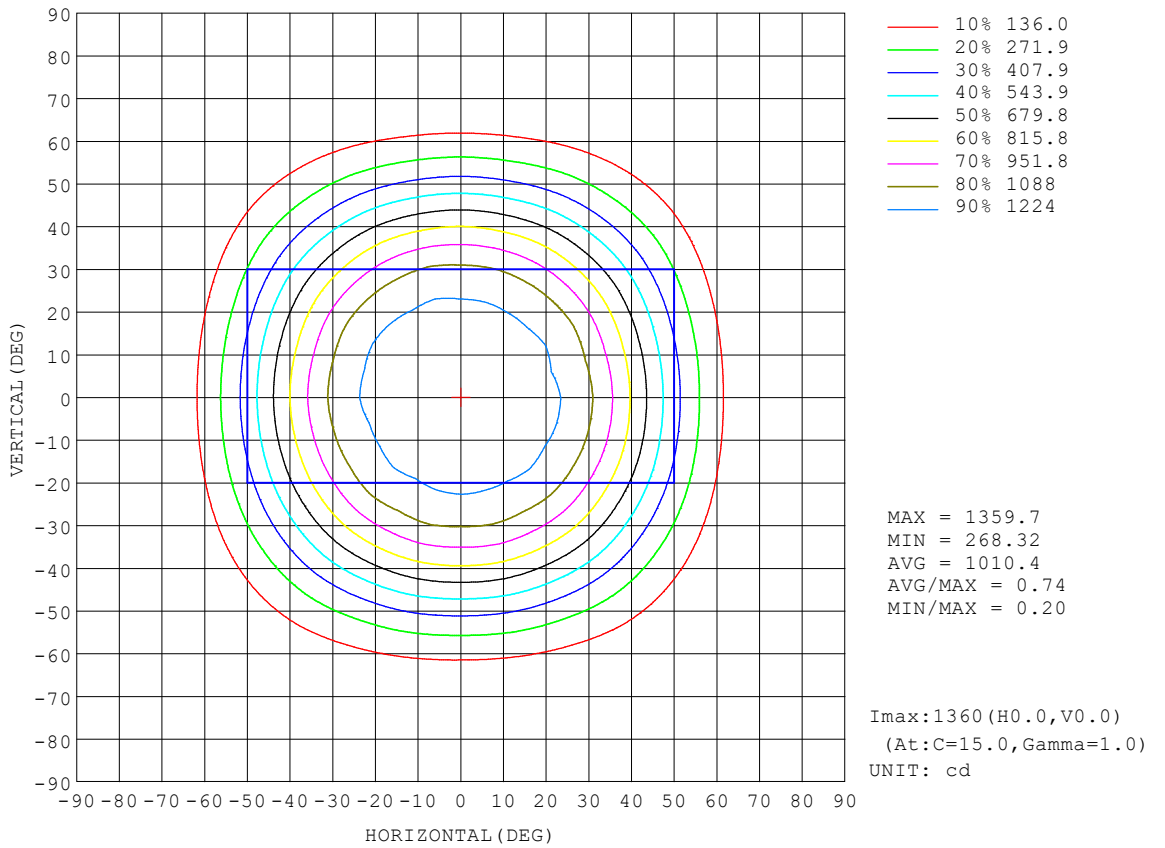
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	70	60	54	69	60	54	68	59	54	49
0.80	80	71	65	79	70	65	77	70	64	59
1.00	88	79	74	87	79	74	85	79	73	68
1.25	94	86	81	93	86	81	90	84	80	74
1.50	98	91	86	97	90	86	94	89	85	79
2.00	103	97	93	102	96	92	99	94	90	84
2.50	106	100	96	104	99	95	101	96	93	86
3.00	108	103	100	106	102	98	102	99	96	89
4.00	111	107	104	109	105	102	105	102	99	92
5.00	112	109	106	110	107	104	106	103	101	93
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: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2024-11-21

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:9.401m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

Test:U:230.30V I:0.1674A P:22.490W PF:0.5834 Freq:50.00Hz Lamp Flux:2486.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



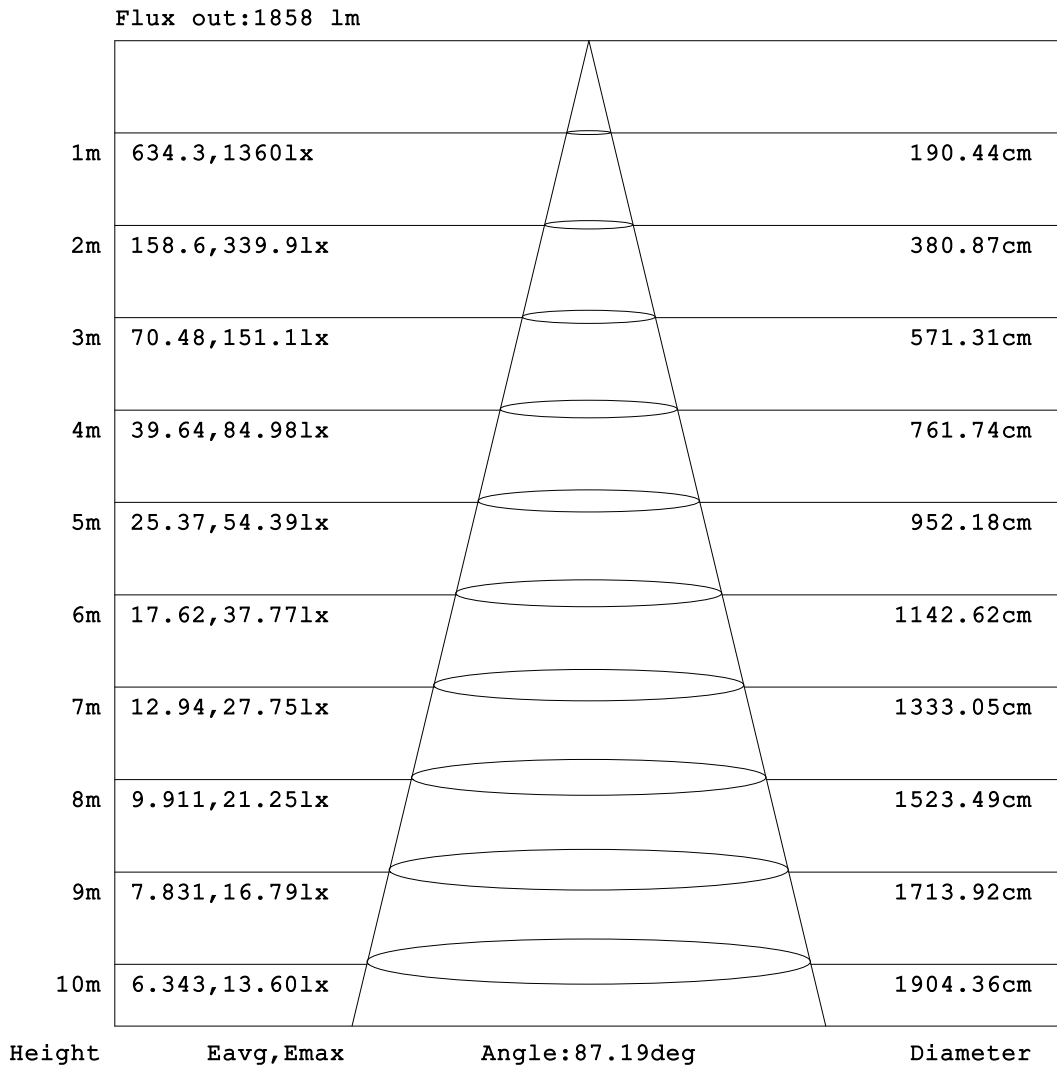
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2024-11-21

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:9.401m [K=1.0000]  
 Remarks:



**AAI Figure**

Test:U:230.30V I:0.1674A P:22.490W PF:0.5834 Freq:50.00Hz Lamp Flux:2486.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



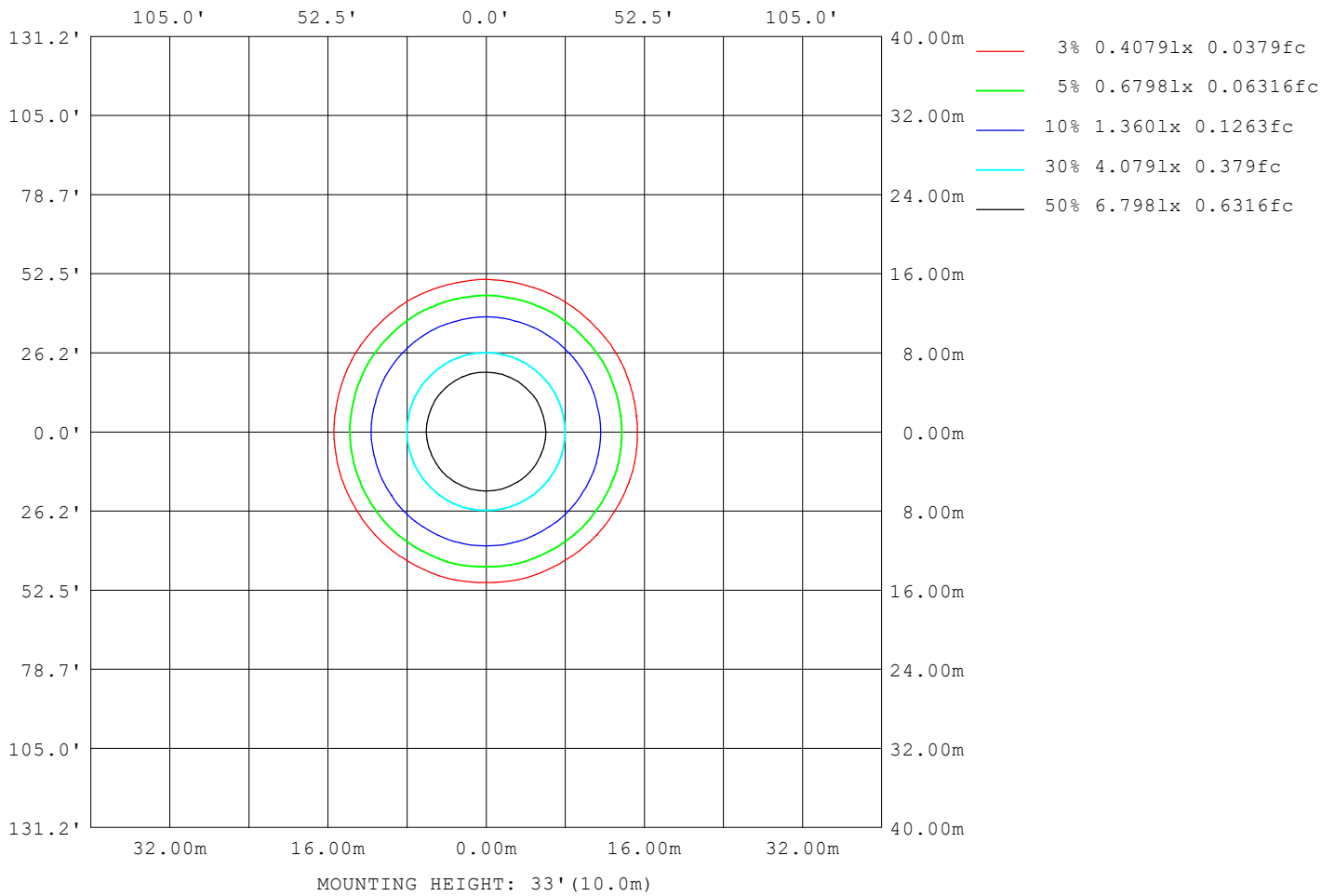
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2024-11-21

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity: 65.0%  
 Test Distance: 9.401m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

Test:U:230.30V I:0.1674A P:22.490W PF:0.5834 Freq:50.00Hz Lamp Flux:2486.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2024-11-21

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:9.401m [K=1.0000]  
 Remarks:

**LED Avg.L Report**

Test:U:230.30V I:0.1674A P:22.490W PF:0.5834 Freq:50.00Hz Lamp Flux:2486.03x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

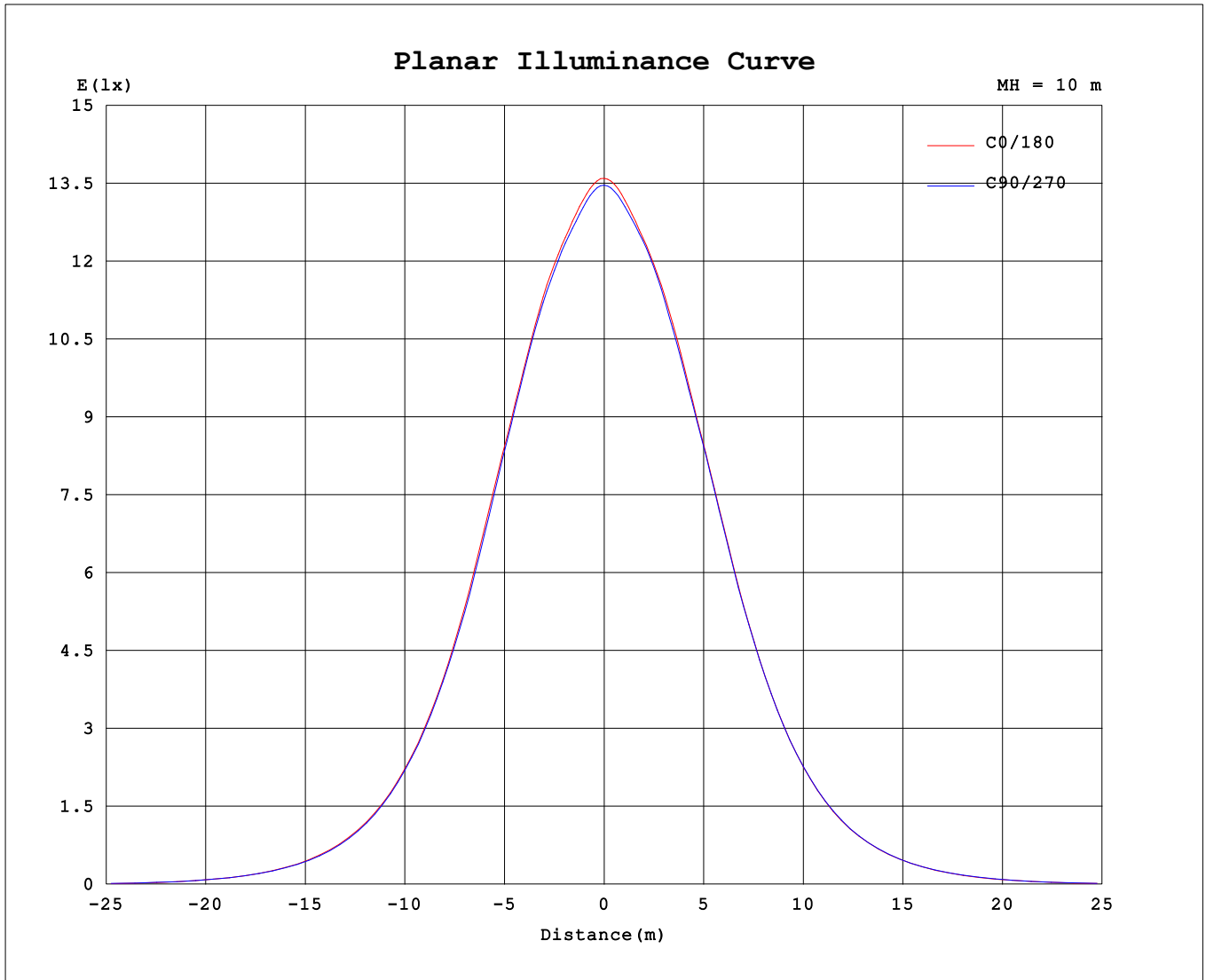
AvgL	cd/m2
L_0~180 (65) av	1715
L_0~180 (75) av	41
L_0~180 (85) av	83
L_90~270 (65) av	1779
L_90~270 (75) av	35
L_90~270 (85) av	60
L_45 (65) av	1981
L_45 (75) av	41
L_45 (85) av	74

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2024-11-21

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity:65.0%  
 Test Distance:9.401m [K=1.0000]  
 Remarks:

**Planar Illuminance Curve**



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2024-11-21

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.473  
 Humidity: 65.0%  
 Test Distance: 9.401m [K=1.0000]  
 Remarks:



