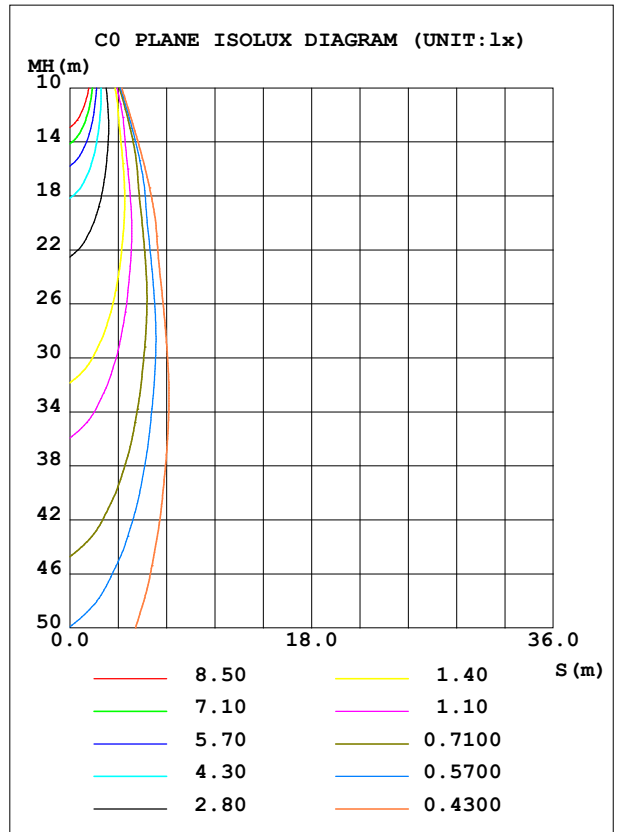
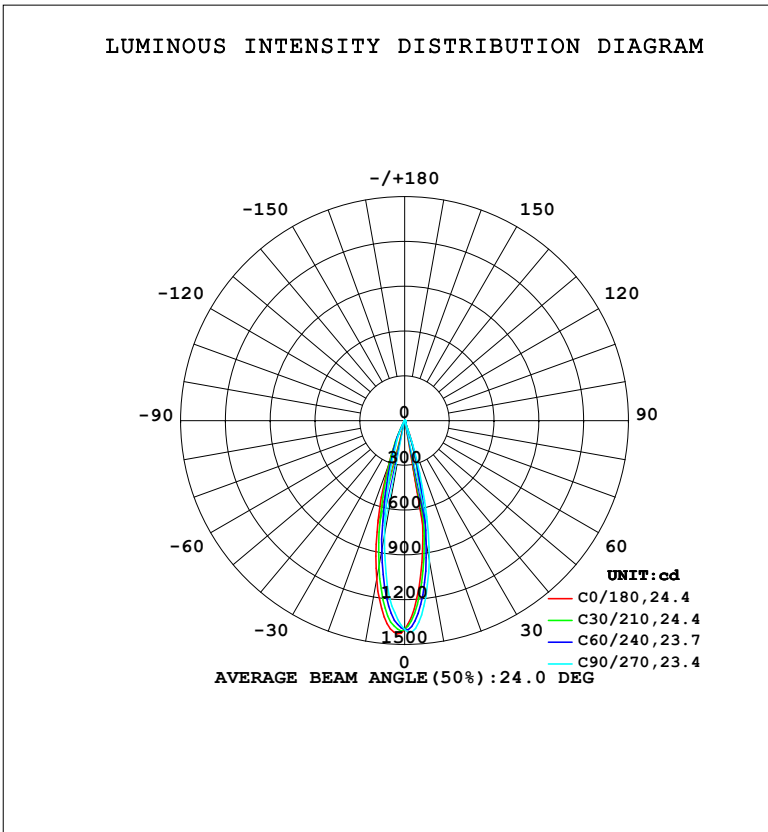


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.32V I:0.0600A P:5.8323W PF:0.4409 Freq:50.00Hz Lamp Flux:267.353x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 45.84 lm/W
MODEL	MB18-614S	I _{max} (cd)	1445	S/MH (C0/180)	0.48	
NOMINAL POWER (W)	5	LOR (%)	100.0	S/MH (C90/270)	0.37	
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	267.35	η UP, DN (C0-180)	0.0,48.2	
NOMINAL FLUX (lm)	267.353	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0,51.8	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE (V)	219.5	η down (%)	100.0	CIBSE SHR MAX	0.30	



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2024-05-30

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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	693.7	797.4	955.7	1094	1079	934.8	784.4	696.9	0- 10	106.8	106.8	39.9,39.9
20	97.32	56.39	91.67	242.1	319.3	264.7	179.7	164.4	10- 20	128.7	235.5	88.1,88.1
30	8.361	6.970	6.816	8.055	10.47	14.72	11.72	8.597	20- 30	25.98	261.5	97.8,97.8
40	2.601	1.698	1.222	1.791	3.216	4.219	4.633	3.098	30- 40	3.253	264.8	99,99
50	0.8789	0.1252	0.0307	0.2245	1.149	2.001	2.217	1.448	40- 50	1.313	266.1	99.5,99.5
60	0.3146	0	0	0	0.3910	1.019	1.211	0.8152	50- 60	0.6121	266.7	99.8,99.8
70	0.1306	0	0	0	0.1126	0.6170	0.7293	0.4745	60- 70	0.3368	267.0	99.9,99.9
80	0.0298	0	0	0	0	0.3654	0.4279	0.3163	70- 80	0.2018	267.2	100,100
90	0	0	0	0	0	0.2275	0.3558	0.2007	80- 90	0.1282	267.4	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): 265.56 lm

%lum = 99.3%

%lamp = 99.3%

Conical surface Flux(130deg): 266.88 lm

%lum = 99.8%

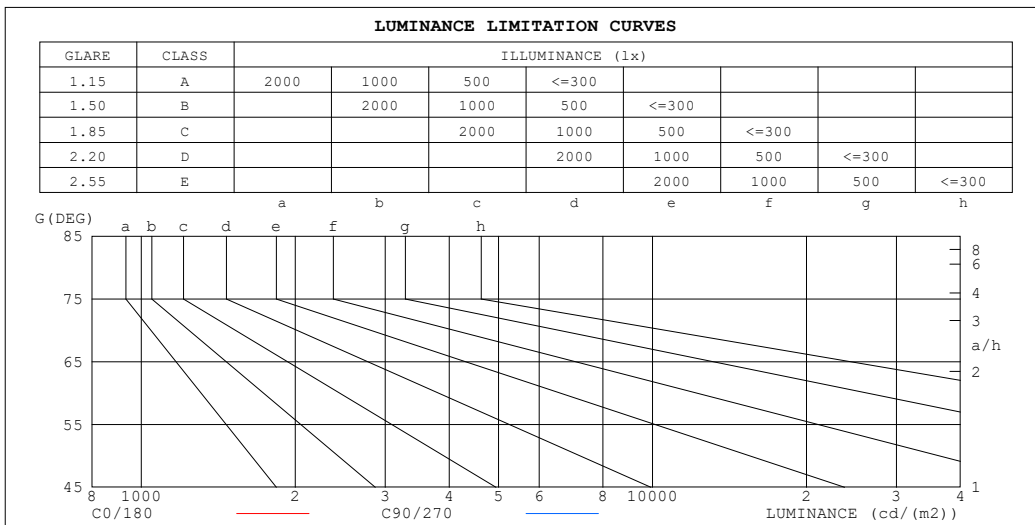
%lamp = 99.8%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2024-05-30

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:

LUMINANCE LIMITATION CURVES

Test:U:220.32V I:0.0600A P:5.8323W PF:0.4409 Freq:50.00Hz Lamp Flux:267.353x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/ (m2)		
G (DEG)	C0/180	C90/270
85	0	0
80	17	0
75	30	0
70	39	0
65	50	0
60	64	0
55	92	0
50	139	5
45	220	50

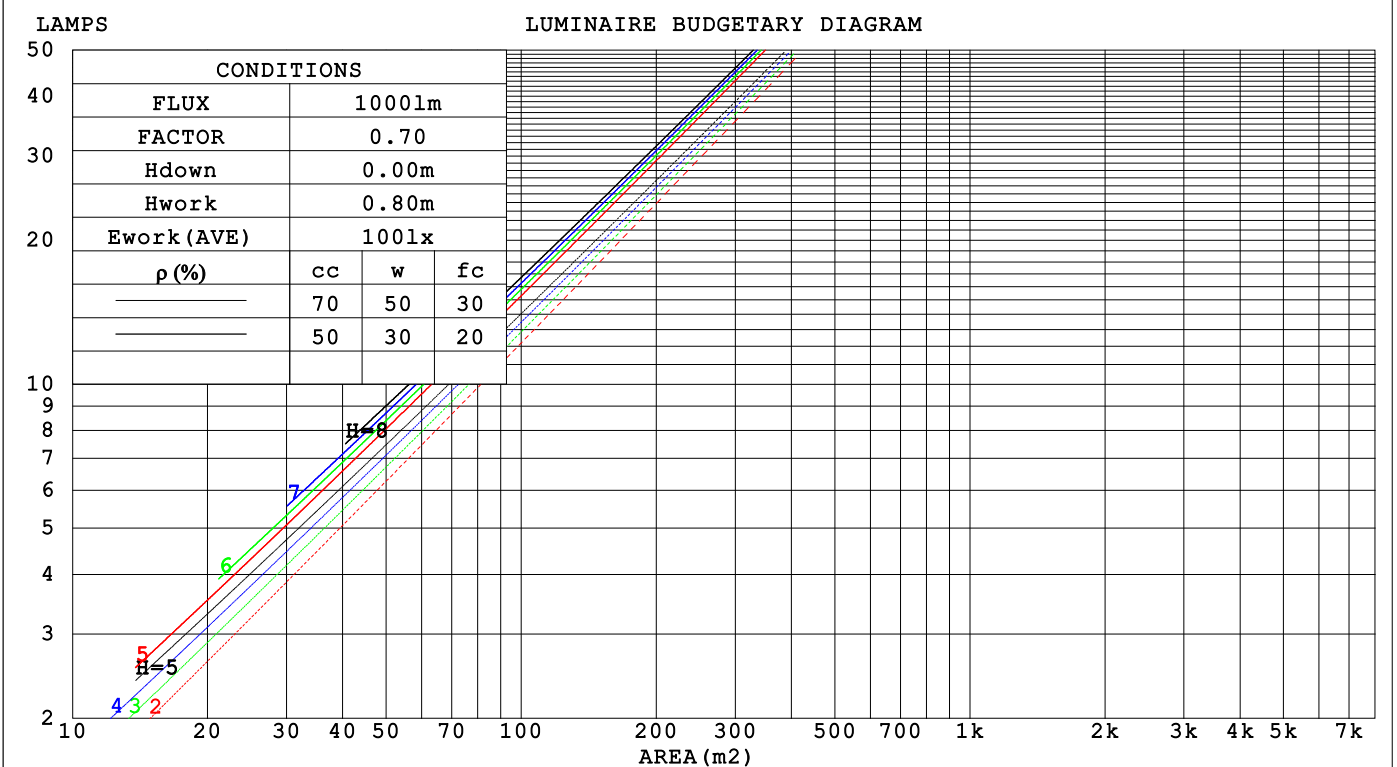
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2024-05-30

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:220.32V I:0.0600A P:5.8323W PF:0.4409 Freq:50.00Hz Lamp Flux:267.353x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	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	1.13	1.11	1.10	1.11	1.09	1.08	1.07	1.06	1.05	1.03	1.03	1.02	1.00	.99	.99	.97
2.0	1.08	1.06	1.03	1.07	1.04	1.02	1.04	1.02	.90	1.01	.99	.98	.98	.97	.96	.94
3.0	1.04	1.01	.98	1.03	.90	.97	1.00	.98	.96	.98	.96	.94	.96	.94	.93	.92
4.0	1.01	.97	.94	.99	.96	.93	.98	.95	.92	.96	.93	.91	.94	.92	.90	.89
5.0	.97	.93	.91	.96	.93	.90	.95	.92	.90	.93	.91	.89	.92	.90	.88	.87
6.0	.94	.90	.88	.94	.90	.87	.92	.89	.87	.91	.88	.86	.90	.88	.86	.85
7.0	.92	.88	.85	.91	.88	.85	.90	.87	.85	.89	.86	.84	.88	.86	.84	.83
8.0	.89	.85	.83	.89	.85	.83	.88	.85	.82	.87	.84	.82	.86	.84	.82	.81
9.0	.87	.83	.81	.87	.83	.81	.86	.83	.80	.85	.82	.80	.84	.82	.80	.79
10.0	.85	.81	.79	.85	.81	.79	.84	.81	.79	.83	.80	.78	.83	.80	.78	.77



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2024-05-30

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:220.32V I:0.0600A P:5.8323W PF:0.4409 Freq:50.00Hz								
Lamp Flux:267.353x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.:			SERIAL No.:		
MFR.: EVERFINE			SUR.:			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						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.131	.074	.024	.124	.071	.022	.112	.064	.020	.100	.058	.019	.090	.052	.017	
2.0	.120	.066	.020	.114	.063	.019	.104	.058	.018	.095	.053	.017	.086	.049	.015	
3.0	.111	.059	.018	.107	.057	.017	.098	.053	.016	.090	.050	.015	.083	.046	.014	
4.0	.104	.054	.016	.100	.052	.015	.093	.049	.015	.086	.046	.014	.080	.043	.013	
5.0	.097	.050	.014	.094	.048	.014	.088	.046	.013	.082	.043	.013	.077	.041	.012	
6.0	.092	.046	.013	.089	.045	.013	.084	.043	.012	.079	.041	.012	.074	.039	.012	
7.0	.087	.043	.012	.085	.042	.012	.080	.040	.012	.076	.039	.011	.072	.037	.011	
8.0	.083	.040	.011	.081	.040	.011	.077	.038	.011	.073	.037	.011	.070	.036	.010	
9.0	.079	.038	.011	.077	.038	.011	.074	.036	.010	.070	.035	.010	.067	.034	.010	
10.0	.076	.036	.010	.074	.036	.010	.071	.035	.010	.068	.034	.010	.065	.033	.009	

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	.168	.158	.149	.144	.135	.128	.098	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.149	.133	.119	.128	.114	.103	.088	.079	.072	.051	.046	.042	.016	.015	.014	
3.0	.134	.113	.097	.115	.098	.084	.079	.068	.059	.046	.040	.035	.015	.013	.011	
4.0	.121	.098	.080	.104	.084	.070	.071	.059	.049	.041	.034	.029	.013	.011	.010	
5.0	.110	.085	.067	.095	.074	.058	.065	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.101	.075	.057	.087	.065	.049	.060	.046	.035	.035	.027	.021	.011	.009	.007	
7.0	.093	.067	.048	.080	.058	.042	.055	.041	.030	.032	.024	.018	.010	.008	.006	
8.0	.086	.060	.042	.074	.052	.036	.051	.037	.026	.030	.022	.015	.010	.007	.005	
9.0	.081	.054	.036	.070	.047	.032	.048	.033	.023	.028	.020	.013	.009	.006	.004	
10.0	.076	.049	.032	.065	.043	.028	.045	.030	.020	.026	.018	.012	.009	.006	.004	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2024-05-30

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:

UGR(Unified Glare Rating) Table

Test:U:220.32V I:0.0600A P:5.8323W PF:0.4409 Freq:50.00Hz										
Lamp Flux:267.353x1 lm										
NAME:			TYPE:				WEIGHT:			
SPEC.:			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	-4.2	-3.6	-4.0	-3.4	-3.3	-7.2	-6.6	-7.0	-6.5	-6.3
3H	-4.2	-3.7	-4.0	-3.5	-3.3	-7.4	-6.8	-7.1	-6.6	-6.4
4H	-4.3	-3.7	-4.0	-3.5	-3.3	-7.4	-6.9	-7.2	-6.7	-6.5
6H	-4.3	-3.8	-4.0	-3.6	-3.4	-7.5	-7.0	-7.2	-6.8	-6.5
8H	-4.4	-3.9	-4.1	-3.6	-3.4	-7.6	-7.1	-7.3	-6.8	-6.6
12H	-4.4	-3.9	-4.1	-3.7	-3.4	-7.6	-7.1	-7.3	-6.9	-6.6
4H 2H	-4.4	-3.9	-4.1	-3.6	-3.4	-7.4	-6.9	-7.2	-6.7	-6.5
3H	-4.5	-4.0	-4.2	-3.8	-3.5	-7.6	-7.1	-7.3	-6.9	-6.6
4H	-4.5	-4.1	-4.2	-3.8	-3.5	-7.7	-7.3	-7.4	-7.0	-6.7
6H	-4.6	-4.2	-4.2	-3.9	-3.6	-7.8	-7.4	-7.4	-7.1	-6.7
8H	-4.7	-4.3	-4.3	-4.0	-3.6	-7.9	-7.5	-7.5	-7.1	-6.8
12H	-4.7	-4.4	-4.3	-4.0	-3.6	-7.9	-7.6	-7.5	-7.2	-6.8
8H 4H	-4.7	-4.3	-4.3	-4.0	-3.6	-7.9	-7.5	-7.5	-7.1	-6.8
6H	-4.8	-4.5	-4.4	-4.1	-3.7	-8.0	-7.7	-7.5	-7.3	-6.9
8H	-4.8	-4.6	-4.4	-4.2	-3.7	-8.0	-7.8	-7.6	-7.3	-6.9
12H	-4.9	-4.7	-4.4	-4.2	-3.8	-8.1	-7.9	-7.6	-7.4	-7.0
12H 4H	-4.8	-4.4	-4.4	-4.1	-3.7	-7.9	-7.6	-7.5	-7.2	-6.8
6H	-4.8	-4.6	-4.4	-4.2	-3.7	-8.0	-7.8	-7.6	-7.3	-6.9
8H	-4.9	-4.7	-4.4	-4.2	-3.8	-8.1	-7.9	-7.6	-7.4	-7.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 4.0 / - 9.4					+ 4.3 / - 1.5				
1.5H	+ 5.7 / -10.5					+ 6.9 / - 1.5				
2.0H	+ 7.4 / -17.2					+ 8.6 / - 1.5				

CIE Pub.117, 267.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -4.6)
 Area: 0.01 m2

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2024-05-30

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:220.32V I:0.0600A P:5.8323W PF:0.4409 Freq:50.00Hz Lamp Flux:267.353x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

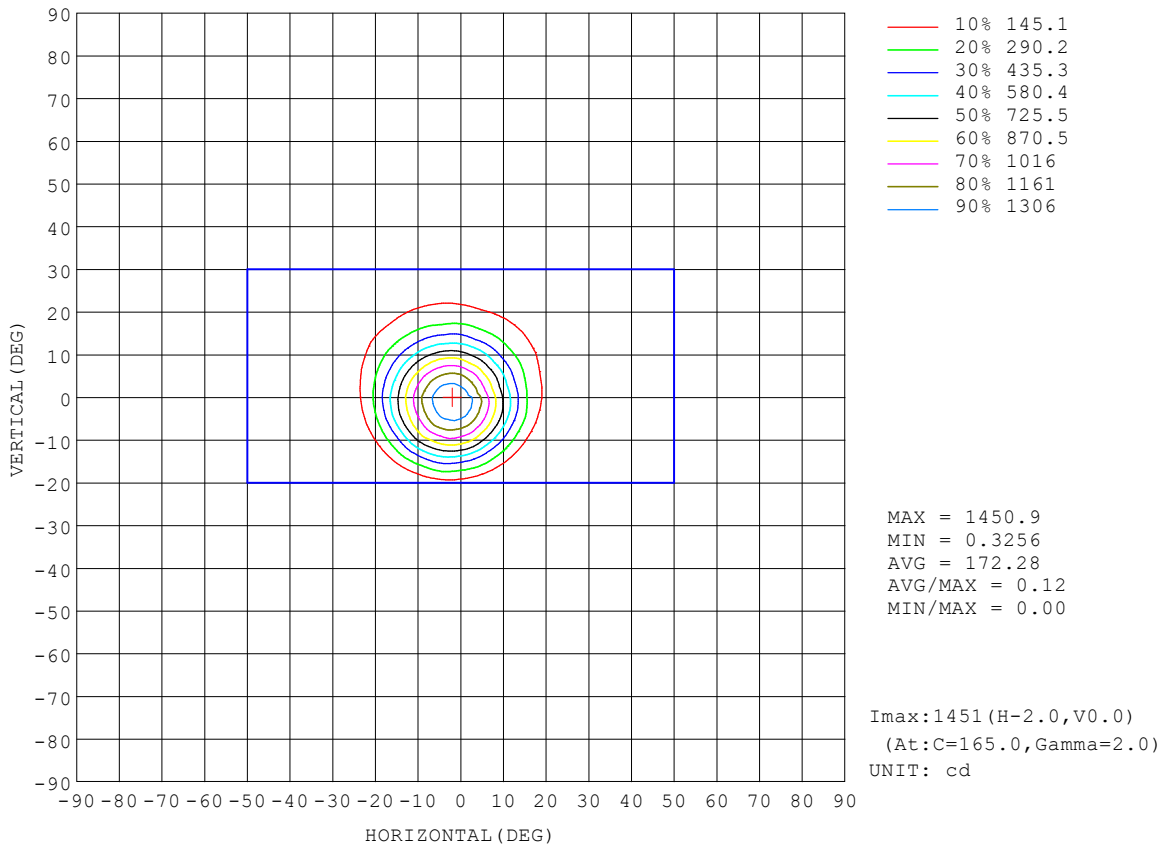
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	90	85	82	90	85	82	78
0.80	98	93	89	97	92	89	96	92	89	86
1.00	102	97	93	101	96	93	99	96	93	89
1.25	105	101	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: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2024-05-30

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:

ISOCANDELA DIAGRAM

Test:U:220.32V I:0.0600A P:5.8323W PF:0.4409 Freq:50.00Hz Lamp Flux:267.353x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

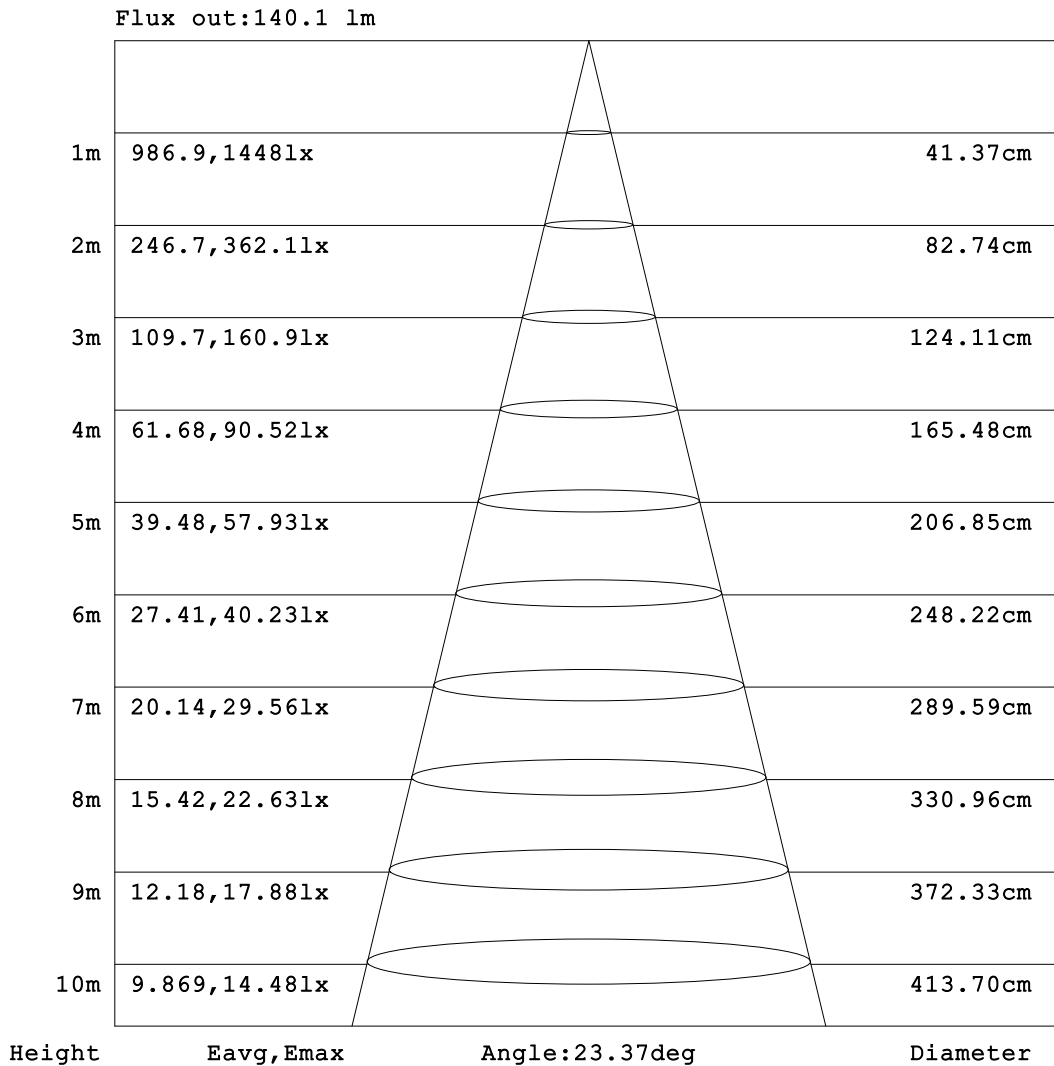


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2024-05-30

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:220.32V I:0.0600A P:5.8323W PF:0.4409 Freq:50.00Hz Lamp Flux:267.353x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



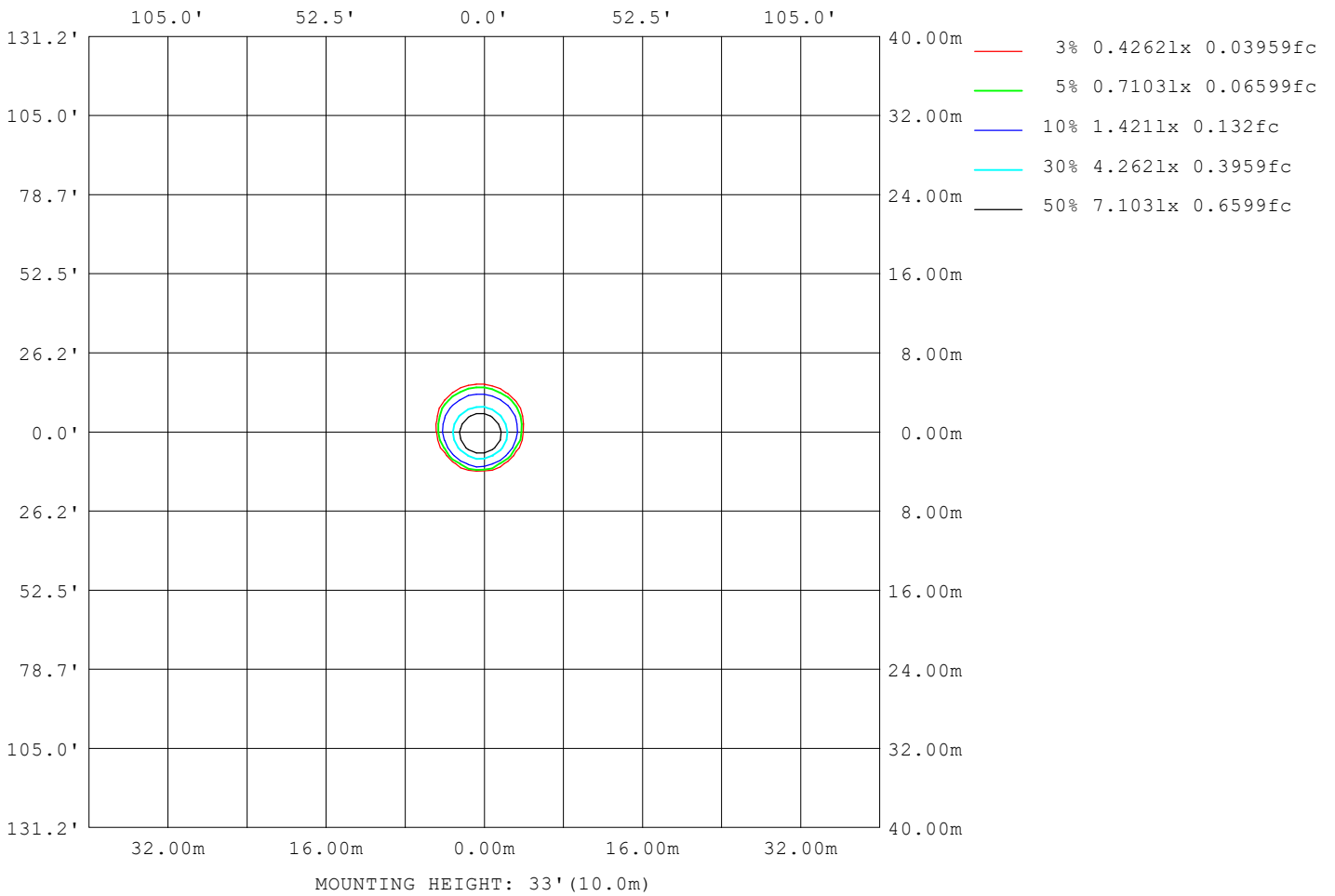
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2024-05-30

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:220.32V I:0.0600A P:5.8323W PF:0.4409 Freq:50.00Hz Lamp Flux:267.353x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	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:2024-05-30

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:220.32V I:0.0600A P:5.8323W PF:0.4409 Freq:50.00Hz Lamp Flux:267.353x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

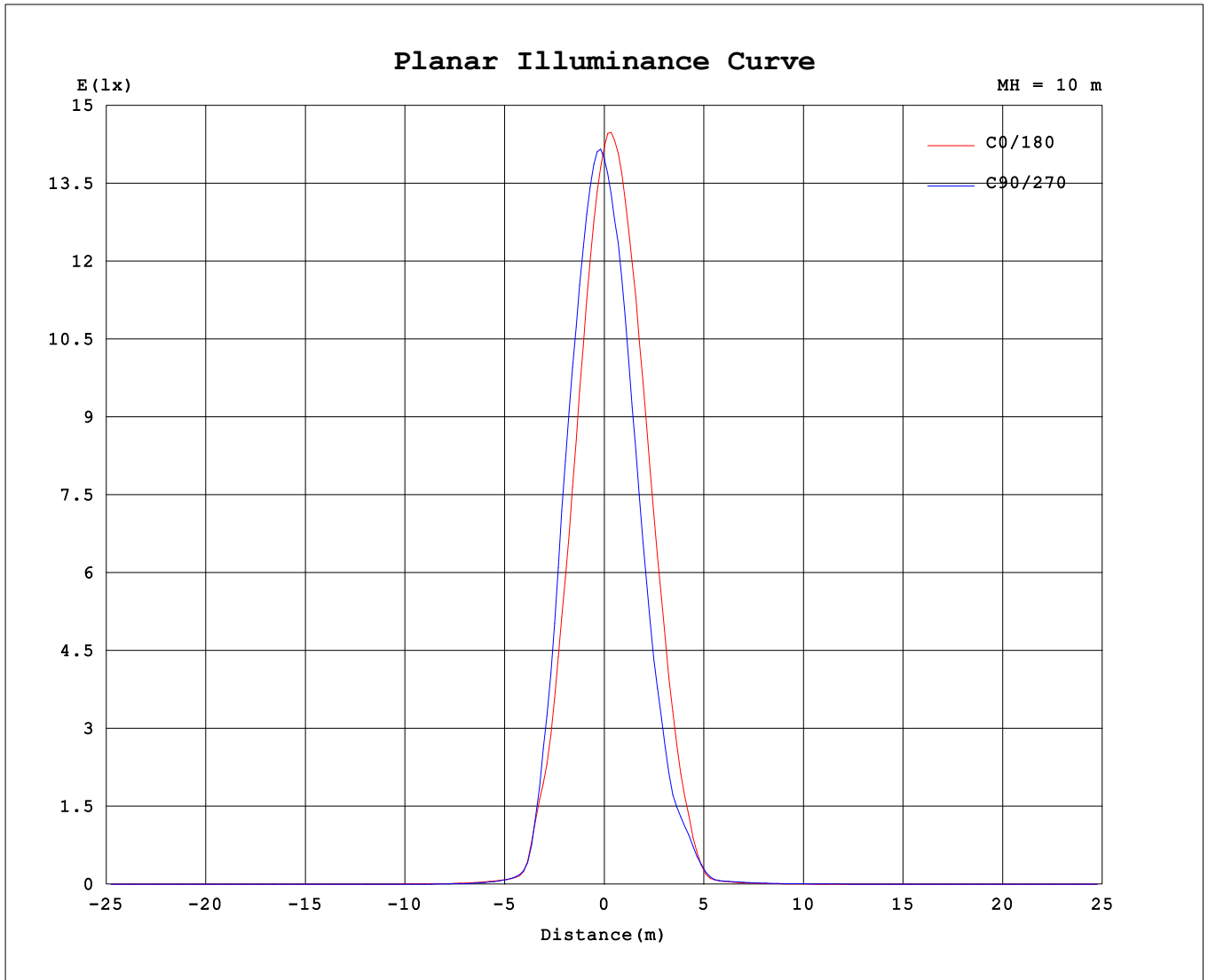
AvgL	cd/m2
L_0~180 (65) av	51
L_0~180 (75) av	25
L_0~180 (85) av	0
L_90~270 (65) av	110
L_90~270 (75) av	107
L_90~270 (85) av	211
L_45 (65) av	84
L_45 (75) av	82
L_45 (85) av	164

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2024-05-30

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: 2024-05-30

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.32V I:0.0600A P:5.8323W PF:0.4409 Freq:50.00Hz Lamp Flux:267.353x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) \ γ (DEG)	285	300	315	330	345														
0	1399	1399	1399	1399	1399														
5	1151	1129	1109	1107	1108														
10	737	719	697	692	684														
15	364	368	344	345	323														
20	174	170	164	156	119														
25	54.7	42.2	34.1	17.2	15.0														
30	10.3	9.76	8.60	8.13	8.05														
35	6.59	5.70	5.06	4.86	4.79														
40	4.35	3.64	3.10	2.98	2.94														
45	3.03	2.44	2.05	1.92	1.88														
50	2.17	1.73	1.45	1.27	1.22														
55	1.60	1.26	1.07	0.86	0.78														
60	1.14	0.93	0.82	0.60	0.51														
65	0.88	0.70	0.63	0.41	0.33														
70	0.70	0.54	0.47	0.30	0.24														
75	0.56	0.42	0.38	0.21	0.19														
80	0.46	0.38	0.32	0.17	0.12														
85	0.41	0.28	0.27	0.10	0.07														
90	0.35	0.28	0.20	0.10	0.00														

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 15.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Temperature:25.3°C	Humidity:65.0%
Operators:DAMIN	Test Distance:9.401m [K=1.0000]
Test Date:2024-05-30	Remarks: