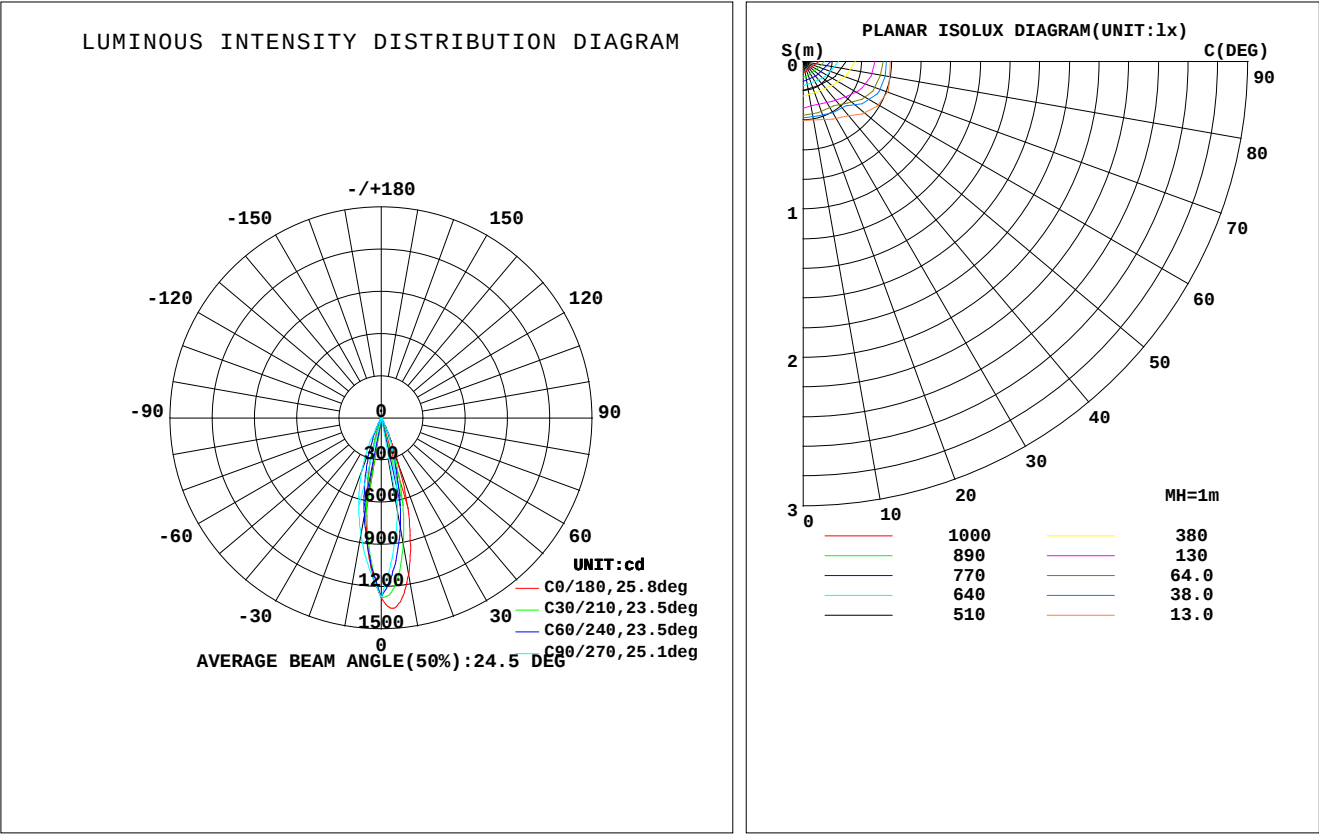


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:222.2V I:0.0440A P:5.830W PF:0.5860 Lamp Flux:630x1 lm		
NAME: 653H01	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024111501
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 46.15 lm/W
MODEL	TEEN	I _{max} (cd)	1354	S/MH(C0/180)	0.34	
NOMINAL POWER(W)	6	LOR(%)	42.7	S/MH(C90/270)	0.48	
RATED VOLTAGE(V)	222	TOTAL FLUX(lm)	269.07	h UP, DN(C0-180)	0.0, 23.9	
NOMINAL FLUX(lm)	630	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0, 18.8	
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	222.2	h down(%)	42.7	CIBSE SHR MAX	1.00	



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2024-11-15

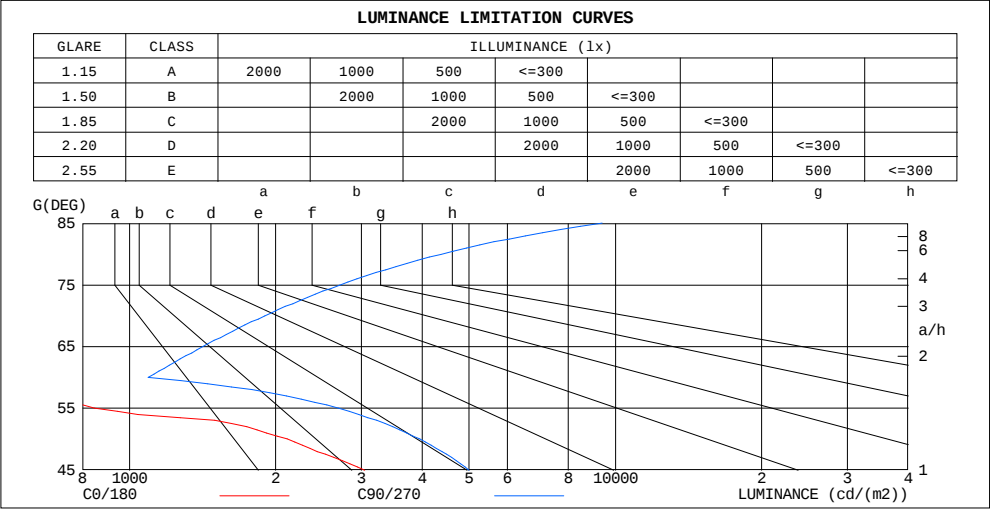
g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
5	1001	966.2	1059	1189	1340	1126	972.3	908.6	0- 5	27.33	27.33	10.2,4.34
10	628.5	640.8	841.9	965.6	1130	841.5	667.9	536.1	5- 10	64.59	91.92	34.2,14.6
15	280.4	354.8	624.4	690.8	788.3	519.2	363.4	230.8	10- 15	72.17	164.1	61,26
20	38.83	127.3	417.7	415.5	411.6	214.4	243.1	38.13	15- 20	56.12	220.2	81.8,35
25	4.670	20.80	211.1	191.2	92.19	67.94	122.8	6.634	20- 25	32.60	252.8	94,40.1
30	2.732	3.977	4.382	54.45	7.526	15.20	2.438	2.919	25- 30	12.43	265.2	98.6,42.1
35	1.735	2.127	3.322	7.982	2.533	3.093	1.824	1.738	30- 35	1.875	267.1	99.3,42.4
40	1.123	1.352	2.262	1.976	1.682	1.161	1.211	1.053	35- 40	0.6293	267.8	99.5,42.5
45	0.7323	0.9255	1.202	1.436	1.110	0.7958	0.5976	0.7132	40- 45	0.4446	268.2	99.7,42.6
50	0.4612	0.5823	0.8634	1.006	0.7125	0.5093	0.4400	0.4366	45- 50	0.3073	268.5	99.8,42.6
55	0.1648	0.3074	0.5247	0.6713	0.4516	0.2878	0.2824	0.1693	50- 55	0.2096	268.7	99.9,42.7
60	0.0871	0.1429	0.1859	0.4081	0.2706	0.1876	0.1247	0.0966	55- 60	0.1253	268.8	99.9,42.7
65	0.0471	0.0578	0.2032	0.1844	0.1294	0.0978	0.0831	0.0526	60- 65	0.0657	268.9	99.9,42.7
70	0.0259	0.0427	0.2205	0.0806	0.0540	0.0391	0.0416	0.0269	65- 70	0.0391	268.9	100,42.7
75	0.0094	0.0576	0.2379	0.0913	0.0117	0.0162	0	0.0117	70- 75	0.0273	269.0	100,42.7
80	0.0024	0.0817	0.2581	0.1115	0.0000	0	0	0	75- 80	0.0241	269.0	100,42.7
85	0.0000	0.1444	0.2784	0.1524	0.0000	0	0	0	80- 85	0.0311	269.0	100,42.7
90	0	0.2094	0.2986	0.1953	0	0	0	0	85- 90	0.0460	269.1	100,42.7
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1	9394
80	40	4372
75	107	2703
70	223	1897
65	328	1414
60	512	1093
55	845	2690
50	2111	3951
45	3046	5001

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2024-11-15

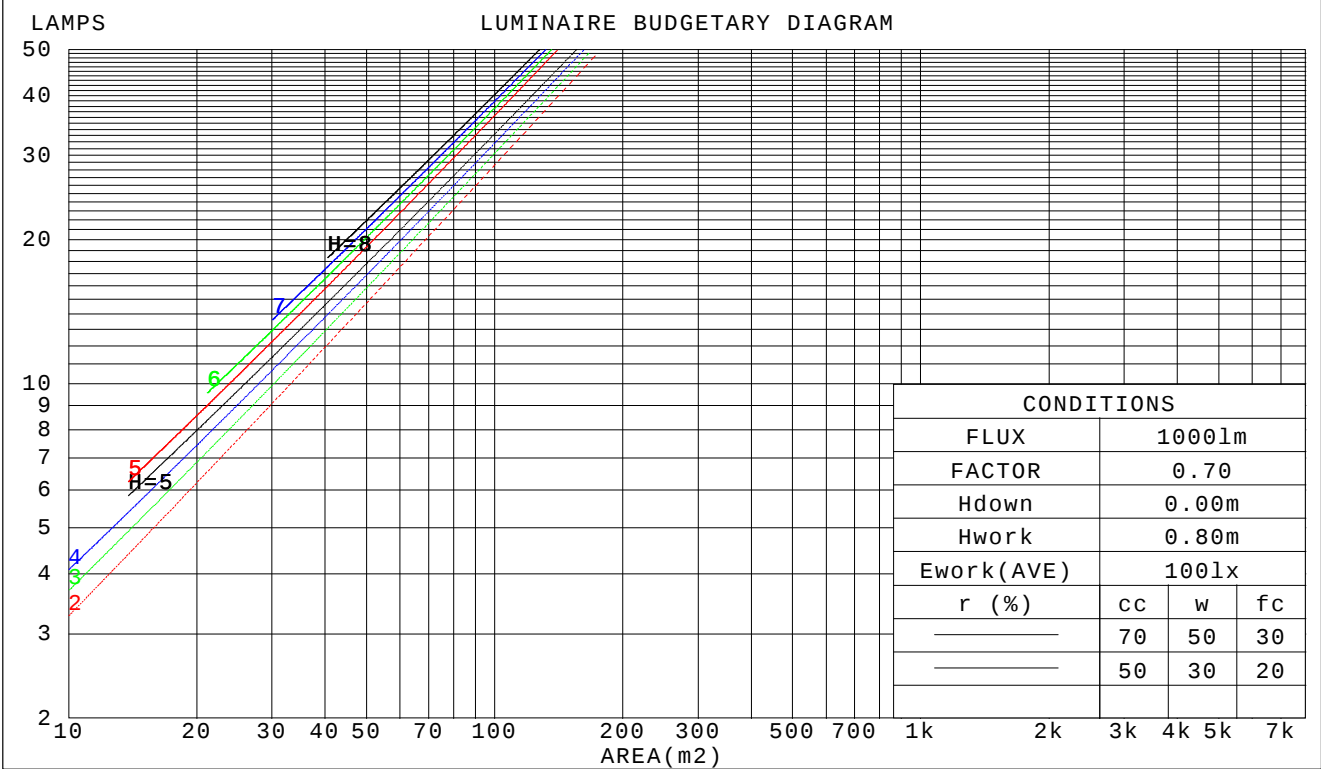
g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:222.2V I:0.0440A P:5.830W PF:0.5860 Lamp Flux:630x1 lm		
NAME: 653H01	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024111501
MFR.:	SUR.:	PROTECTION ANGLE:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	.51	.51	.51	.50	.50	.50	.47	.47	.47	.45	.45	.45	.44	.44	.44	.43
1.0	.48	.47	.47	.47	.47	.46	.46	.45	.45	.44	.44	.43	.43	.42	.42	.41
2.0	.46	.45	.44	.45	.44	.43	.44	.43	.42	.43	.42	.41	.42	.41	.41	.40
3.0	.44	.43	.41	.44	.42	.41	.43	.41	.41	.42	.41	.40	.41	.40	.39	.39
4.0	.42	.41	.40	.42	.41	.39	.41	.40	.39	.40	.39	.38	.40	.39	.38	.38
5.0	.41	.39	.38	.41	.39	.38	.40	.39	.38	.39	.38	.37	.39	.38	.37	.36
6.0	.40	.38	.37	.39	.38	.37	.39	.37	.36	.38	.37	.36	.38	.37	.36	.35
7.0	.38	.37	.35	.38	.36	.35	.38	.36	.35	.37	.36	.35	.37	.36	.35	.34
8.0	.37	.35	.34	.37	.35	.34	.37	.35	.34	.36	.35	.34	.36	.35	.34	.33
9.0	.36	.34	.33	.36	.34	.33	.36	.34	.33	.35	.34	.33	.35	.34	.33	.33
10.0	.35	.33	.32	.35	.33	.32	.35	.33	.32	.34	.33	.32	.34	.33	.32	.32



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2024-11-15

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:222.2V I:0.0440A P:5.830W PF:0.5860 Lamp Flux:630x1 lm											
NAME: 653H01						TYPE:			WEIGHT:		
DIM.:						SPEC.:			SERIAL No.:2024111501		
MFR.:						SUR.:			PROTECTION ANGLE:		

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.058	.033	.010	.055	.031	.010	.049	.028	.009	.045	.026	.008	.040	.023	.007	
2.0	.053	.029	.009	.051	.028	.009	.046	.026	.008	.042	.024	.007	.039	.022	.007	
3.0	.049	.026	.008	.048	.025	.008	.044	.024	.007	.041	.022	.007	.037	.021	.006	
4.0	.046	.024	.007	.045	.023	.007	.042	.022	.007	.039	.021	.006	.036	.020	.006	
5.0	.044	.022	.006	.042	.022	.006	.040	.021	.006	.037	.020	.006	.035	.019	.006	
6.0	.041	.021	.006	.040	.020	.006	.038	.019	.006	.036	.019	.005	.034	.018	.005	
7.0	.039	.019	.006	.038	.019	.005	.036	.018	.005	.034	.018	.005	.033	.017	.005	
8.0	.037	.018	.005	.037	.018	.005	.035	.017	.005	.033	.017	.005	.032	.016	.005	
9.0	.036	.017	.005	.035	.017	.005	.034	.017	.005	.032	.016	.005	.031	.016	.005	
10.0	.034	.016	.005	.034	.016	.005	.032	.016	.004	.031	.015	.004	.030	.015	.004	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.081	.081	.081	.070	.070	.070	.047	.047	.047	.027	.027	.027	.009	.009	.009	
1.0	.072	.067	.063	.061	.058	.054	.042	.040	.038	.024	.023	.022	.008	.007	.007	
2.0	.064	.057	.051	.055	.049	.044	.038	.034	.030	.022	.020	.018	.007	.006	.006	
3.0	.058	.048	.041	.049	.042	.036	.034	.029	.025	.020	.017	.015	.006	.005	.005	
4.0	.052	.042	.034	.045	.036	.029	.031	.025	.021	.018	.015	.012	.006	.005	.004	
5.0	.048	.037	.028	.041	.032	.025	.028	.022	.017	.016	.013	.010	.005	.004	.003	
6.0	.044	.032	.024	.038	.028	.021	.026	.020	.015	.015	.011	.009	.005	.004	.003	
7.0	.041	.029	.020	.035	.025	.018	.024	.017	.013	.014	.010	.008	.005	.003	.002	
8.0	.038	.026	.018	.033	.022	.015	.023	.016	.011	.013	.009	.006	.004	.003	.002	
9.0	.035	.023	.015	.031	.020	.013	.021	.014	.009	.012	.008	.006	.004	.003	.002	
10.0	.033	.021	.013	.029	.019	.012	.020	.013	.008	.012	.008	.005	.004	.003	.002	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2024-11-15

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

Uncorrected UGR Table

Test:U:222.2V I:0.0440A P:5.830W PF:0.5860 Lamp Flux:630x1 lm											
NAME: 653H01					TYPE:			WEIGHT:			
DIM.:					SPEC.:			SERIAL No.:2024111501			
MFR.:					SUR.:			PROTECTION 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		-1.2	-0.6	-1.0	-0.4	-0.3	1.8	2.4	2.0	2.6	2.7
	3H	-1.3	-0.7	-1.1	-0.5	-0.4	2.1	2.7	2.3	2.9	3.1
	4H	-1.4	-0.8	-1.1	-0.6	-0.4	2.7	3.3	2.9	3.5	3.7
	6H	-1.5	-1.0	-1.2	-0.7	-0.5	4.1	4.6	4.4	4.8	5.1
	8H	-1.5	-1.0	-1.2	-0.8	-0.5	5.2	5.7	5.5	6.0	6.2
	12H	-1.6	-1.1	-1.3	-0.8	-0.6	6.6	7.1	6.9	7.4	7.7
4H	2H	-1.2	-0.7	-1.0	-0.5	-0.3	1.6	2.2	1.9	2.4	2.6
	3H	-1.4	-0.9	-1.1	-0.6	-0.4	2.0	2.5	2.3	2.7	3.0
	4H	-1.5	-1.0	-1.1	-0.7	-0.4	2.7	3.1	3.0	3.4	3.7
	6H	-1.6	-1.2	-1.2	-0.8	-0.5	4.3	4.7	4.7	5.1	5.4
	8H	-1.6	-1.3	-1.2	-0.9	-0.5	5.7	6.1	6.1	6.5	6.8
	12H	-1.7	-1.3	-1.3	-1.0	-0.6	7.6	8.0	8.0	8.3	8.7
8H	4H	-1.4	-1.0	-1.0	-0.7	-0.3	2.6	3.0	3.0	3.3	3.7
	6H	-1.3	-1.0	-0.9	-0.6	-0.2	4.5	4.8	4.9	5.2	5.6
	8H	-1.2	-0.9	-0.8	-0.5	-0.1	6.1	6.4	6.5	6.8	7.2
	12H	-0.9	-0.7	-0.5	-0.3	0.2	8.3	8.5	8.7	8.9	9.4
12H	4H	-1.2	-0.8	-0.8	-0.5	-0.1	2.5	2.9	2.9	3.3	3.6
	6H	-0.8	-0.5	-0.3	-0.1	0.3	4.5	4.8	4.9	5.2	5.6
	8H	-0.3	-0.1	0.1	0.4	0.8	6.2	6.4	6.7	6.9	7.4
Variations with the observer position at spacings:											
S = 1.0H		+ 1.6 / - 2.8					+ 0.9 / - 0.7				
1.5H		+ 1.8 / - 2.2					+ 1.7 / - 0.8				
2.0H		+ 2.9 / - 2.2					+ 1.1 / - 0.9				

CIE Pub.117 Corrected 630.0 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.6)

C Range: 0 - 360DEG	g Range: 0 - 90DEG
C Interval: 5.0DEG	g Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Temperature:30DEG	Humidity:65.0%
Operators:	Test Distance:5.835m [K=1.0000]
Test Date:2024-11-15	Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:222.2V I:0.0440A P:5.830W PF:0.5860 Lamp Flux:630x1 lm		
NAME: 653H01	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024111501
MFR.:	SUR.:	PROTECTION 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) $k(RI) \times RCR = 5$									
$k = 0.60$	39	37	35	39	37	35	38	36	35	34
0.80	42	40	38	42	40	38	41	39	38	37
1.00	44	41	40	43	41	40	43	41	40	38
1.25	45	43	42	45	43	42	44	42	41	40
1.50	46	44	43	46	44	43	45	43	42	41
2.00	47	45	44	46	45	44	45	44	43	41
2.50	48	46	45	47	46	45	46	45	44	41
3.00	48	47	46	47	46	45	46	45	44	42
4.00	49	48	47	48	47	46	47	46	45	42
5.00	49	49	48	49	48	47	47	46	46	43
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

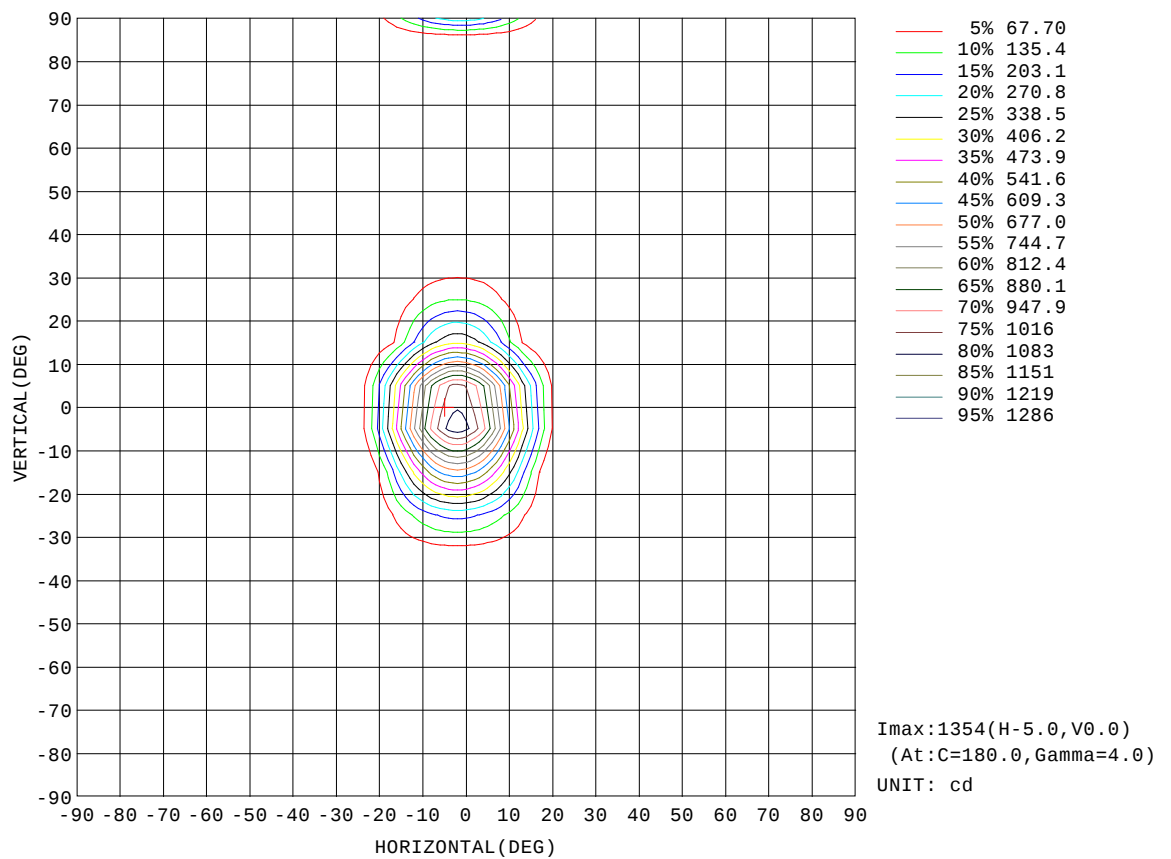
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2024-11-15

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:222.2V I:0.0440A P:5.830W PF:0.5860 Lamp Flux:630x1 lm		
NAME: 653H01	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024111501
MFR.:	SUR.:	PROTECTION ANGLE:



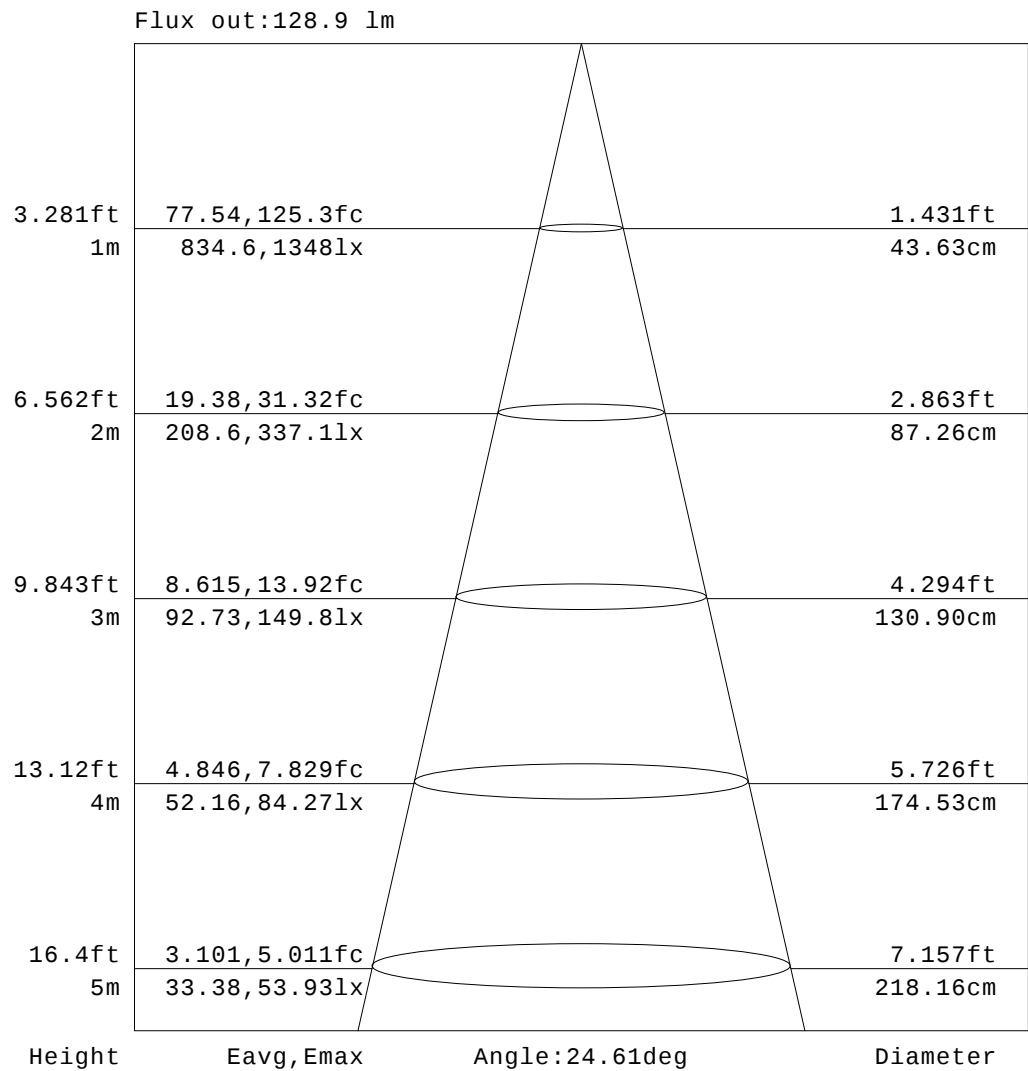
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2024-11-15

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:222.2V I:0.0440A P:5.830W PF:0.5860 Lamp Flux:630x1 lm		
NAME: 653H01	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024111501
MFR.:	SUR.:	PROTECTION ANGLE:



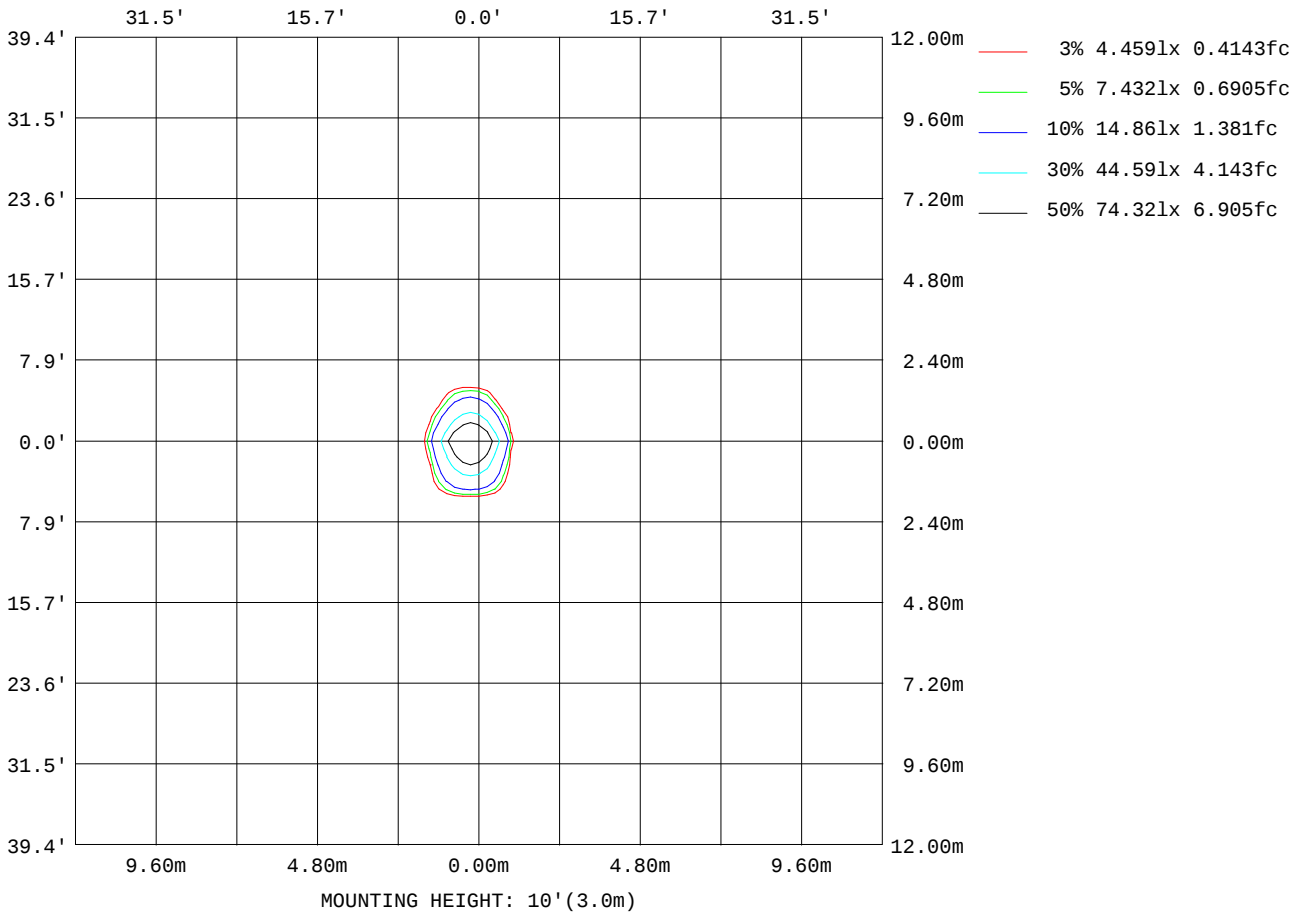
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG	g Range: 0 - 90DEG
C Interval: 5.0DEG	g Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Temperature:30DEG	Humidity:65.0%
Operators:	Test Distance:5.835m [K=1.0000]
Test Date:2024-11-15	Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

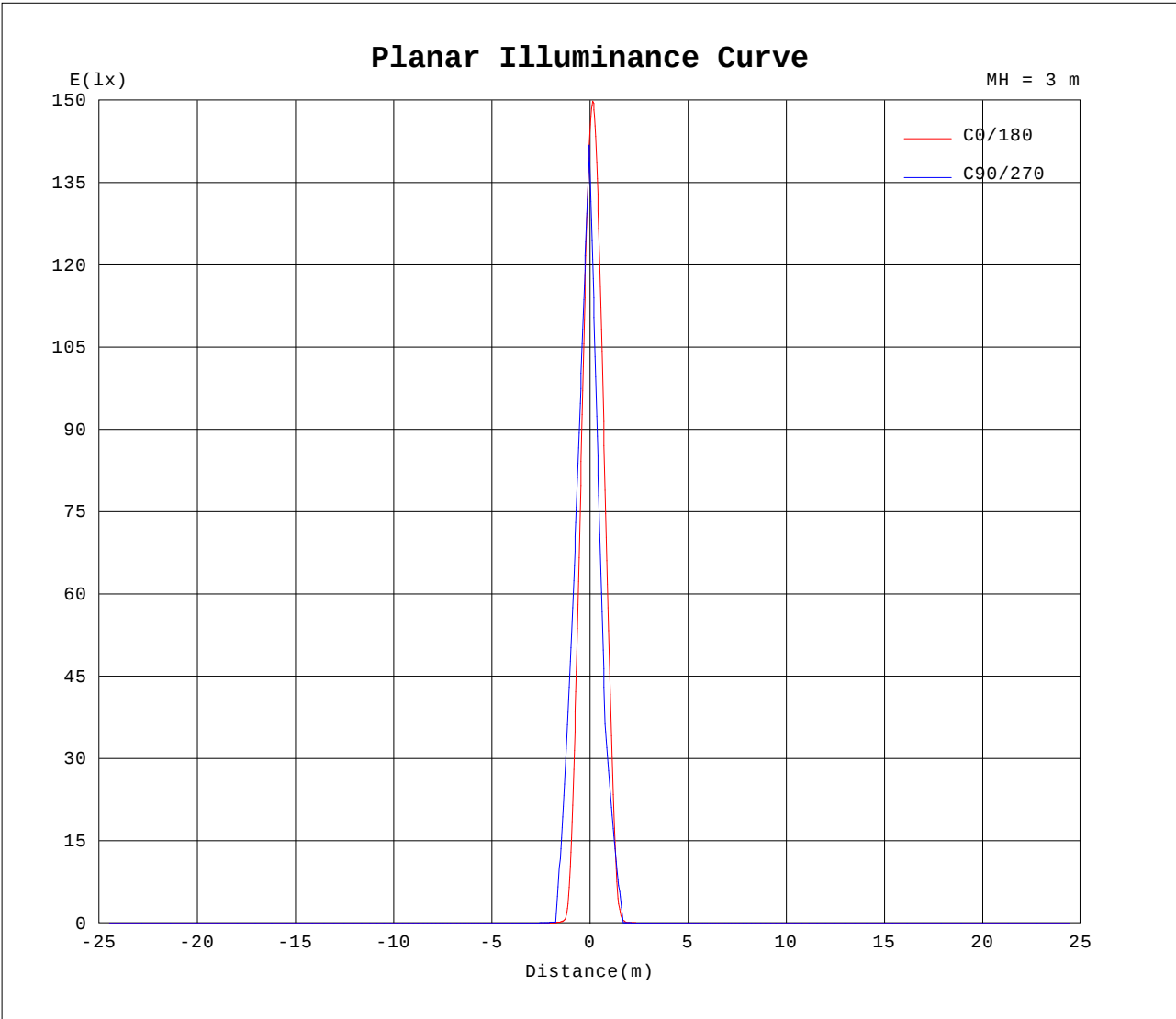
Test:U:222.2V I:0.0440A P:5.830W PF:0.5860 Lamp Flux:630x1 lm		
NAME: 653H01	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024111501
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2024-11-15

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2024-11-15

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks: