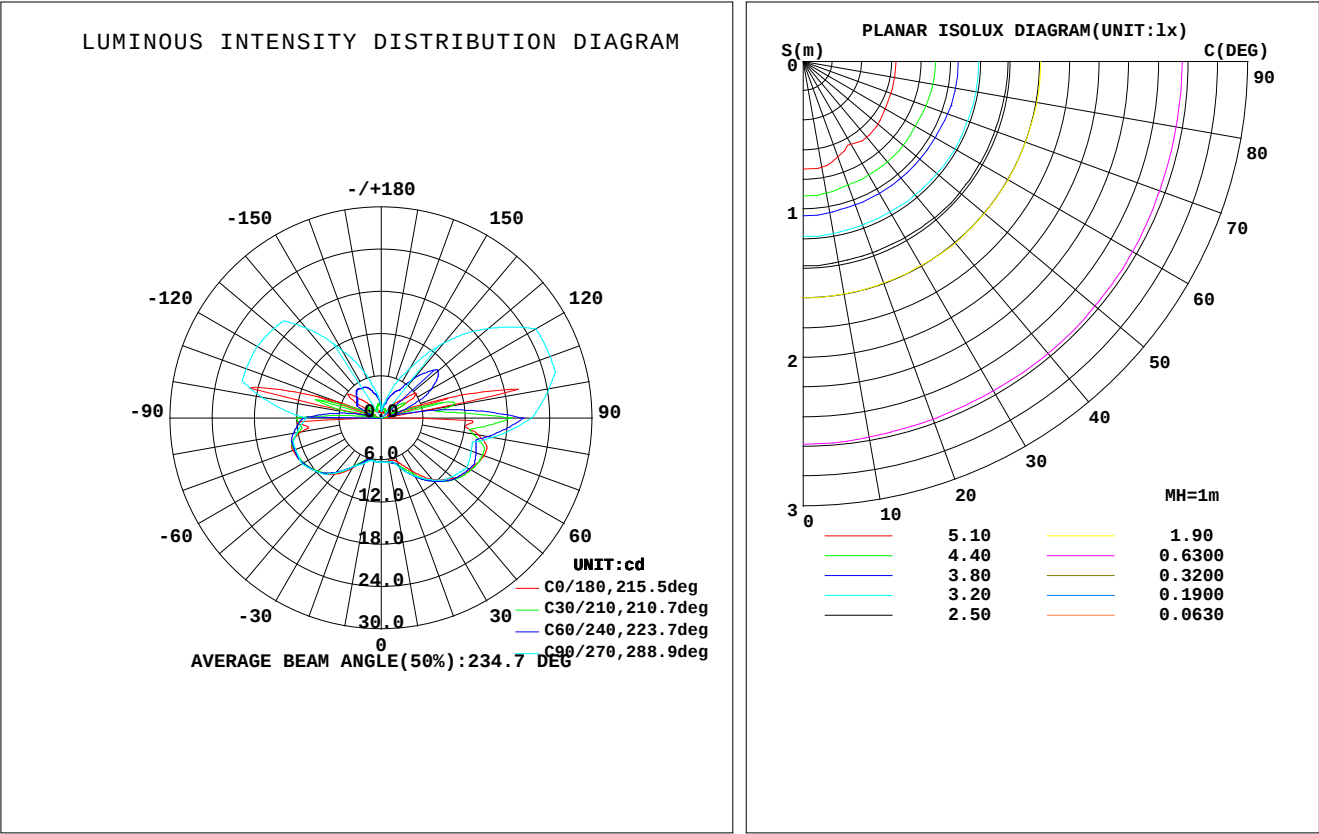


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:223.3V I:0.0490A P:6.520W PF:0.5930 Lamp Flux:735x2 lm		
NAME: 64G601	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024111302
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 18.99 lm/W			
MODEL	TEEN	I _{max} (cd)	25.79	S/MH(C0/180)	2.38
NOMINAL POWER(W)	7	LOR(%)	8.4	S/MH(C90/270)	2.38
RATED VOLTAGE(V)	224	TOTAL FLUX(lm)	123.84	h UP,DN(C0-180)	1.4,2.5
NOMINAL FLUX(lm)	735	CIE CLASS	SEMI-D.	h UP,DN(C180-360)	1.8,2.7
LAMPS INSIDE	2	h up(%)	3.2	CIBSE SHR NOM	2.00
TEST VOLTAGE(V)	223.2	h down(%)	5.2	CIBSE SHR MAX	0.00



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2024-11-13

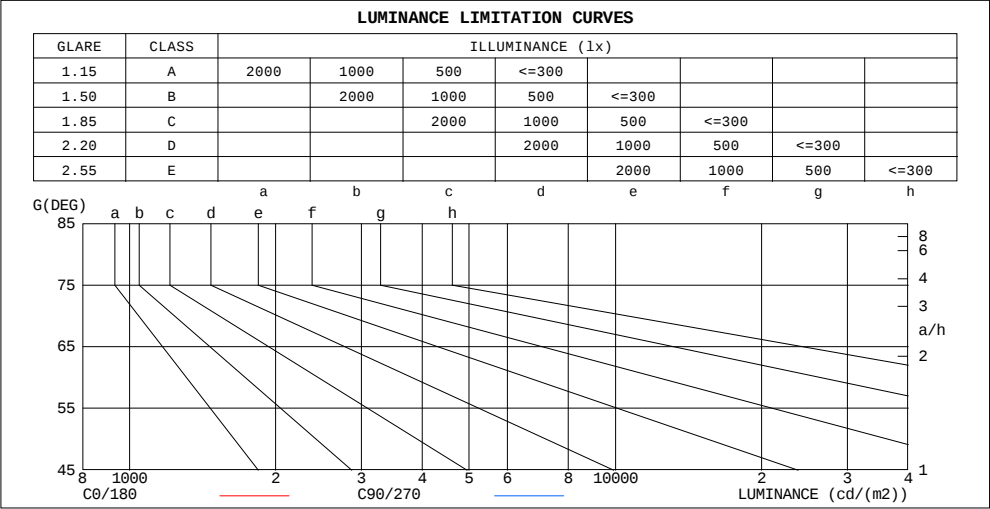
g Range: 0 - 180DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:

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	6.320	6.311	6.307	6.314	6.334	6.377	6.379	6.371	0- 5	0.1517	0.1517	0.12,0.01
10	6.193	6.219	6.269	6.273	6.261	6.464	6.412	6.400	5- 10	0.4526	0.6043	0.49,0.04
15	6.064	6.138	6.231	6.237	6.238	6.669	6.445	6.542	10- 15	0.7500	1.354	1.09,0.09
20	6.364	6.236	6.800	6.354	6.616	7.104	7.474	6.891	15- 20	1.079	2.434	1.97,0.17
25	7.155	7.043	7.369	7.248	7.512	8.225	8.503	7.913	20- 25	1.519	3.953	3.19,0.27
30	8.226	8.071	7.939	8.402	8.721	9.488	9.532	9.046	25- 30	2.075	6.028	4.87,0.41
35	9.429	9.174	9.082	9.652	10.12	10.73	10.54	10.13	30- 35	2.740	8.769	7.08,0.60
40	10.46	10.21	10.22	10.90	11.45	11.85	11.54	11.09	35- 40	3.485	12.25	9.89,0.83
45	11.26	11.09	11.37	11.97	12.45	12.75	12.55	11.89	40- 45	4.245	16.50	13.3,1.12
50	11.89	11.86	11.93	12.88	13.37	13.56	13.07	12.63	45- 50	4.979	21.48	17.3,1.46
55	12.46	12.51	12.50	13.69	14.25	14.23	13.59	13.24	50- 55	5.651	27.13	21.9,1.85
60	12.81	12.84	13.06	14.22	14.70	14.66	14.10	13.58	55- 60	6.256	33.38	27,2.27
65	13.16	13.12	13.04	14.67	15.15	15.10	13.88	13.90	60- 65	6.760	40.15	32.4,2.73
70	13.40	13.20	13.01	14.89	15.58	14.96	13.66	13.70	65- 70	7.120	47.27	38.2,3.22
75	13.18	13.06	12.99	14.82	15.54	13.96	13.44	12.71	70- 75	7.310	54.58	44.1,3.71
80	11.64	12.78	12.22	14.51	14.04	13.40	16.09	12.23	75- 80	7.286	61.86	50,4.21
85	11.30	12.18	11.45	13.40	12.14	16.35	18.75	15.50	80- 85	7.327	69.19	55.9,4.71
90	0.0612	11.61	10.68	12.30	0.0948	19.42	21.41	18.86	85- 90	7.880	77.07	62.2,5.24
95	0.1697	12.47	13.95	11.92	0.1858	16.15	22.81	16.91	90- 95	6.773	83.84	67.7,5.7
100	0.3677	12.81	17.22	11.00	0.9910	12.19	24.22	14.28	95-100	5.183	89.03	71.9,6.06
105	16.32	7.835	20.48	6.584	13.98	6.887	25.62	8.284	100-105	6.187	95.21	76.9,6.48
110	7.453	2.920	20.46	2.589	3.861	2.653	25.56	2.978	105-110	4.522	99.74	80.5,6.78
115	1.343	1.239	20.43	1.287	1.042	1.691	25.50	1.657	110-115	3.226	103.0	83.1,7
120	2.471	1.373	20.40	1.344	2.604	2.283	25.44	2.388	115-120	3.323	106.3	85.8,7.23
125	5.840	1.457	20.15	1.373	6.056	3.239	22.65	3.395	120-125	3.630	109.9	88.8,7.48
130	4.607	1.364	19.89	1.407	4.422	3.266	19.85	3.331	125-130	3.402	113.3	91.5,7.71
135	3.426	1.353	19.63	1.846	3.288	2.897	17.05	3.200	130-135	2.869	116.2	93.8,7.9
140	1.885	1.558	16.77	2.288	1.655	2.279	14.01	3.103	135-140	2.263	118.4	95.6,8.06
145	1.155	1.977	13.91	2.828	1.082	2.364	10.97	3.239	140-145	1.686	120.1	97,8.17
150	1.127	2.465	11.06	3.175	0.9884	2.361	7.927	3.022	145-150	1.253	121.4	98,8.26
155	1.016	2.720	8.931	3.253	0.8660	2.167	6.120	2.504	150-155	0.9315	122.3	98.8,8.32
160	0.9647	2.715	6.804	3.064	0.9012	1.827	4.313	1.896	155-160	0.6631	123.0	99.3,8.37
165	1.031	2.754	4.677	2.971	0.9976	1.806	2.506	1.862	160-165	0.4321	123.4	99.7,8.4
170	1.158	2.546	3.510	2.591	0.9483	1.617	1.994	1.718	165-170	0.2645	123.7	99.9,8.41
175	1.235	1.982	2.343	1.929	0.9013	1.265	1.482	1.372	170-175	0.1328	123.8	100,8.42
180	1.176	1.176	1.176	1.176	0.9693	0.9693	0.9693	0.9693	175-180	0.0339	123.8	100,8.42
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



LUMINANCE cd/(m2)		
G(°)	C0/180	C90/270
85	381496	386480
80	197187	206982
75	149737	147594
70	115273	111907
65	91598	90740
60	75362	76845
55	63873	64088
50	54423	54600
45	46855	47281

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2024-11-13

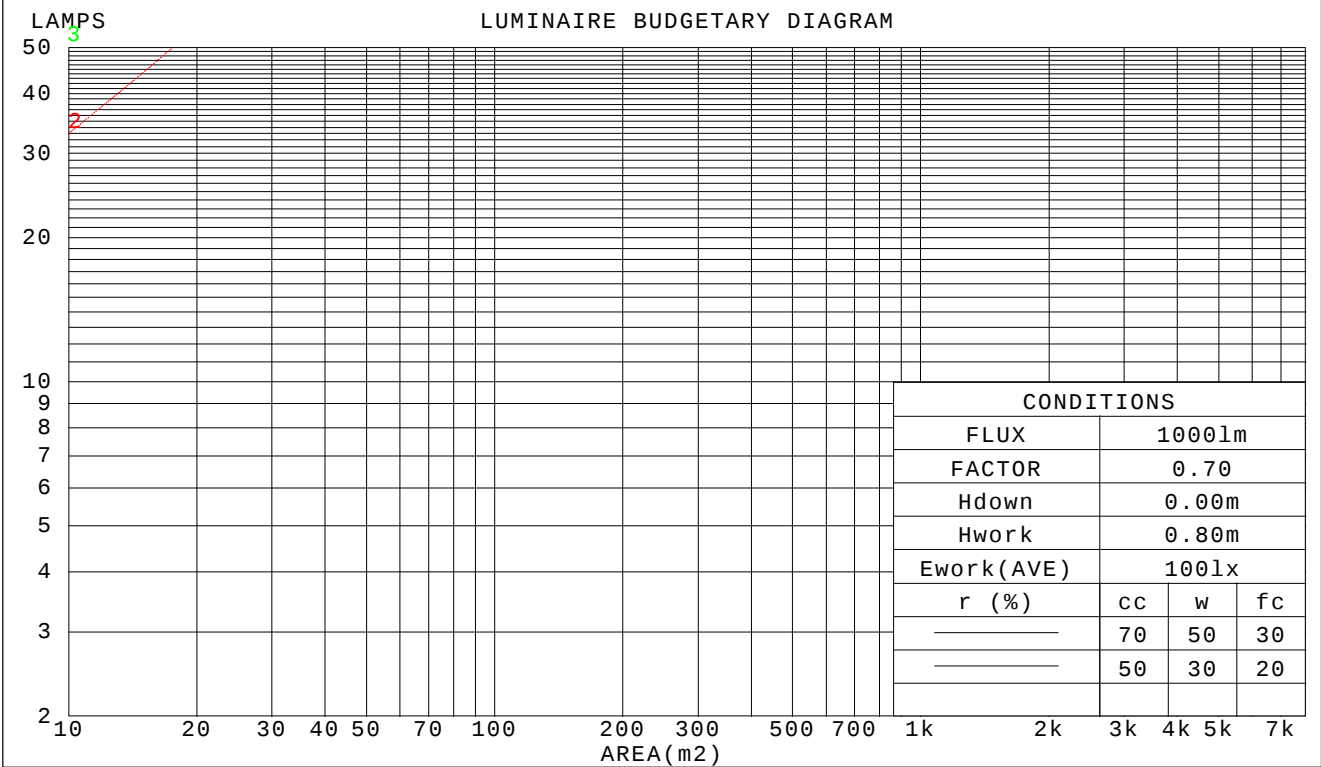
g Range: 0 - 180DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:223.3V I:0.0490A P:6.520W PF:0.5930 Lamp Flux:735x2 lm									
NAME: 64G601					TYPE:			WEIGHT:	
DIM.:					SPEC.:			SERIAL No.:2024111302	
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	.09	.09	.09	.09	.09	.09	.08	.08	.08	.07	.07	.07	.06	.06	.06	.05
1.0	.07	.07	.06	.07	.06	.06	.06	.05	.05	.05	.05	.04	.04	.04	.04	.03
2.0	.06	.05	.05	.06	.05	.04	.05	.04	.04	.04	.04	.03	.03	.03	.03	.02
3.0	.05	.04	.04	.05	.04	.03	.04	.04	.03	.03	.03	.03	.03	.02	.02	.02
4.0	.05	.04	.03	.04	.03	.03	.04	.03	.02	.03	.02	.02	.02	.02	.02	.01
5.0	.04	.03	.02	.04	.03	.02	.03	.02	.02	.03	.02	.02	.02	.02	.01	.01
6.0	.03	.03	.02	.03	.02	.02	.03	.02	.02	.02	.02	.01	.02	.01	.01	.01
7.0	.03	.02	.02	.03	.02	.02	.02	.02	.01	.02	.02	.01	.02	.01	.01	.01
8.0	.03	.02	.02	.03	.02	.01	.02	.02	.01	.02	.01	.01	.02	.01	.01	.01
9.0	.03	.02	.01	.02	.02	.01	.02	.01	.01	.02	.01	.01	.01	.01	.01	.01
10.0	.02	.02	.01	.02	.02	.01	.02	.01	.01	.02	.01	.01	.01	.01	.01	.00



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2024-11-13

g Range: 0 - 180DEG
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:223.3V I:0.0490A P:6.520W PF:0.5930 Lamp Flux:735x2 lm											
NAME: 64G601						TYPE:			WEIGHT:		
DIM.:						SPEC.:			SERIAL No.:2024111302		
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	.038	.022	.007	.037	.021	.007	.034	.019	.006	.031	.018	.006	.029	.017	.005	
2.0	.032	.017	.005	.030	.017	.005	.027	.015	.005	.025	.014	.004	.023	.013	.004	
3.0	.027	.015	.004	.026	.014	.004	.023	.013	.004	.021	.012	.004	.019	.011	.003	
4.0	.024	.013	.004	.023	.012	.004	.021	.011	.003	.018	.010	.003	.017	.009	.003	
5.0	.022	.011	.003	.020	.011	.003	.018	.010	.003	.016	.009	.003	.015	.008	.002	
6.0	.020	.010	.003	.019	.009	.003	.017	.009	.002	.015	.008	.002	.013	.007	.002	
7.0	.018	.009	.003	.017	.008	.002	.015	.008	.002	.014	.007	.002	.012	.006	.002	
8.0	.016	.008	.002	.016	.008	.002	.014	.007	.002	.012	.006	.002	.011	.006	.002	
9.0	.015	.007	.002	.014	.007	.002	.013	.006	.002	.012	.006	.002	.010	.005	.001	
10.0	.014	.007	.002	.013	.007	.002	.012	.006	.002	.011	.005	.002	.009	.005	.001	

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	.040	.040	.040	.034	.034	.034	.024	.024	.024	.014	.014	.014	.004	.004	.004	
1.0	.040	.037	.035	.035	.032	.030	.024	.022	.021	.014	.013	.012	.004	.004	.004	
2.0	.040	.036	.032	.034	.031	.028	.024	.021	.019	.014	.012	.011	.004	.004	.004	
3.0	.039	.034	.030	.034	.030	.026	.023	.021	.018	.013	.012	.011	.004	.004	.004	
4.0	.039	.033	.029	.033	.029	.025	.023	.020	.018	.013	.012	.011	.004	.004	.003	
5.0	.038	.033	.029	.033	.028	.025	.023	.020	.018	.013	.012	.010	.004	.004	.003	
6.0	.038	.032	.028	.032	.028	.024	.022	.019	.017	.013	.011	.010	.004	.004	.003	
7.0	.037	.032	.028	.032	.027	.024	.022	.019	.017	.013	.011	.010	.004	.004	.003	
8.0	.036	.031	.027	.031	.027	.024	.022	.019	.017	.013	.011	.010	.004	.004	.003	
9.0	.036	.031	.027	.031	.027	.024	.021	.019	.017	.012	.011	.010	.004	.004	.003	
10.0	.035	.030	.027	.030	.026	.024	.021	.019	.017	.012	.011	.010	.004	.004	.003	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2024-11-13

g Range: 0 - 180DEG
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:223.3V I:0.0490A P:6.520W PF:0.5930 Lamp Flux:735x2 lm											
NAME: 64G601					TYPE:			WEIGHT:			
DIM.:					SPEC.:			SERIAL No.:2024111302			
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	2H	25.0	26.3	25.8	27.1	28.0	25.1	26.4	25.8	27.1	28.1
	3H	28.5	29.6	29.2	30.4	31.4	28.4	29.6	29.2	30.4	31.4
	4H	30.3	31.4	31.1	32.3	33.3	30.2	31.3	31.0	32.2	33.2
	6H	32.1	33.2	32.9	34.0	35.0	32.1	33.2	32.9	34.0	35.1
	8H	33.0	34.0	33.8	34.8	35.9	33.2	34.2	34.0	35.0	36.1
	12H	34.0	35.0	34.8	35.8	36.9	34.3	35.3	35.1	36.1	37.2
4H	2H	26.1	27.2	26.9	28.0	29.1	26.2	27.3	27.0	28.1	29.1
	3H	29.6	30.6	30.4	31.4	32.5	29.6	30.5	30.4	31.4	32.5
	4H	31.6	32.5	32.4	33.4	34.4	31.5	32.4	32.4	33.3	34.4
	6H	33.5	34.3	34.4	35.2	36.3	33.6	34.4	34.4	35.3	36.4
	8H	34.5	35.2	35.3	36.1	37.2	34.7	35.4	35.5	36.3	37.4
	12H	35.5	36.2	36.4	37.2	38.3	35.9	36.6	36.8	37.5	38.6
8H	4H	32.3	33.1	33.2	33.9	35.1	32.3	33.0	33.1	33.9	35.0
	6H	34.5	35.1	35.4	36.0	37.2	34.6	35.2	35.5	36.1	37.3
	8H	35.6	36.2	36.5	37.1	38.2	35.9	36.4	36.8	37.4	38.5
	12H	36.9	37.4	37.8	38.3	39.5	37.3	37.8	38.2	38.7	39.9
12H	4H	32.5	33.2	33.4	34.1	35.2	32.4	33.1	33.3	34.0	35.2
	6H	34.8	35.4	35.7	36.3	37.5	34.9	35.5	35.8	36.4	37.6
	8H	36.0	36.5	36.9	37.5	38.7	36.3	36.8	37.2	37.7	38.9
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.2					
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4					

CIE Pub.117 Corrected 1470 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.3)

C Range: 0 - 360DEG	g Range: 0 - 180DEG
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:2024-11-13	Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:223.3V I:0.0490A P:6.520W PF:0.5930 Lamp Flux:735x2 lm		
NAME: 64G601	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024111302
MFR.:	SUR.:	PROTECTION ANGLE:

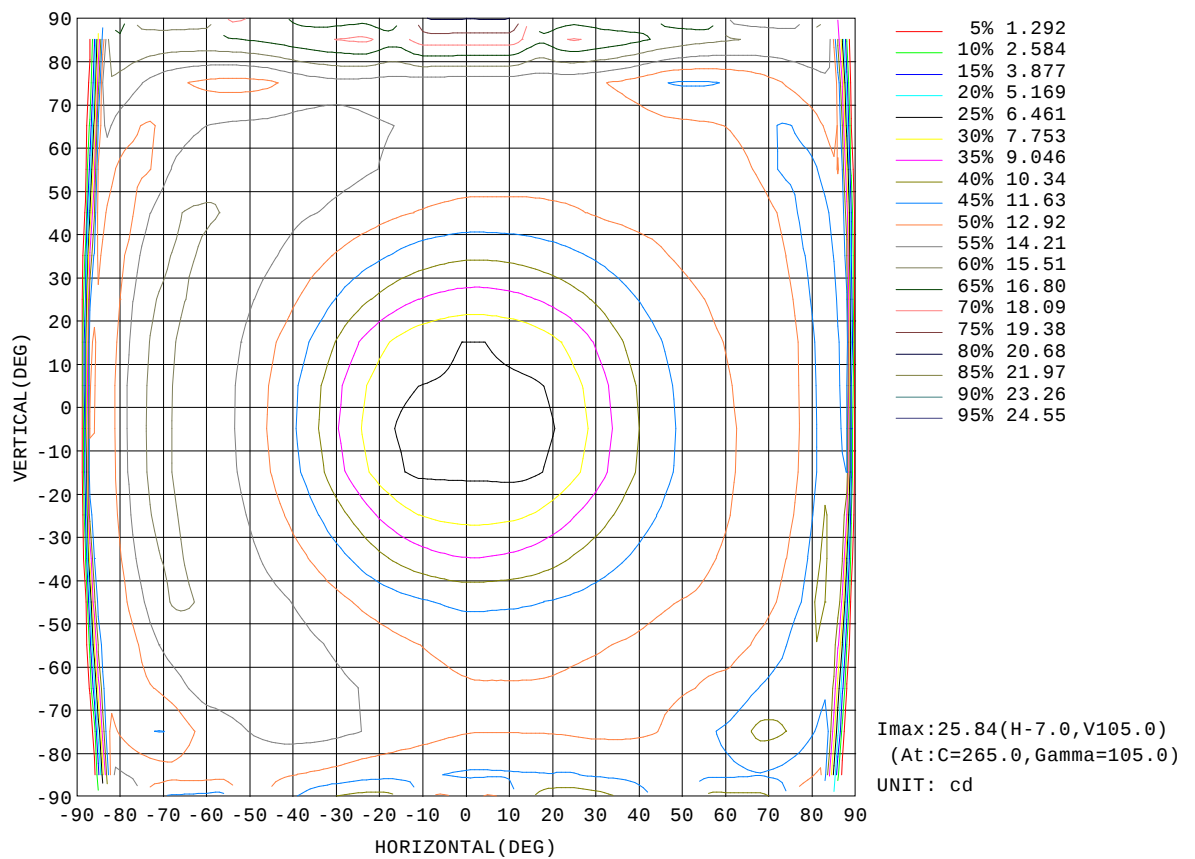
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	3	2	1	3	2	1	3	2	1	1
0.80	4	3	2	4	2	2	3	2	2	1
1.00	4	3	2	4	3	2	4	3	2	1
1.25	5	4	3	5	4	3	4	3	3	1
1.50	5	4	3	5	4	3	4	4	3	2
2.00	6	5	4	6	5	4	5	4	4	2
2.50	7	5	5	6	5	4	5	5	4	2
3.00	7	6	5	6	6	5	6	5	4	3
4.00	7	6	6	7	6	5	6	5	5	3
5.00	8	7	6	7	6	6	6	6	5	3
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:2024-11-13

g Range: 0 - 180DEG
g Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:223.3V I:0.0490A P:6.520W PF:0.5930 Lamp Flux:735x2 lm		
NAME: 64G601	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024111302
MFR.:	SUR.:	PROTECTION ANGLE:



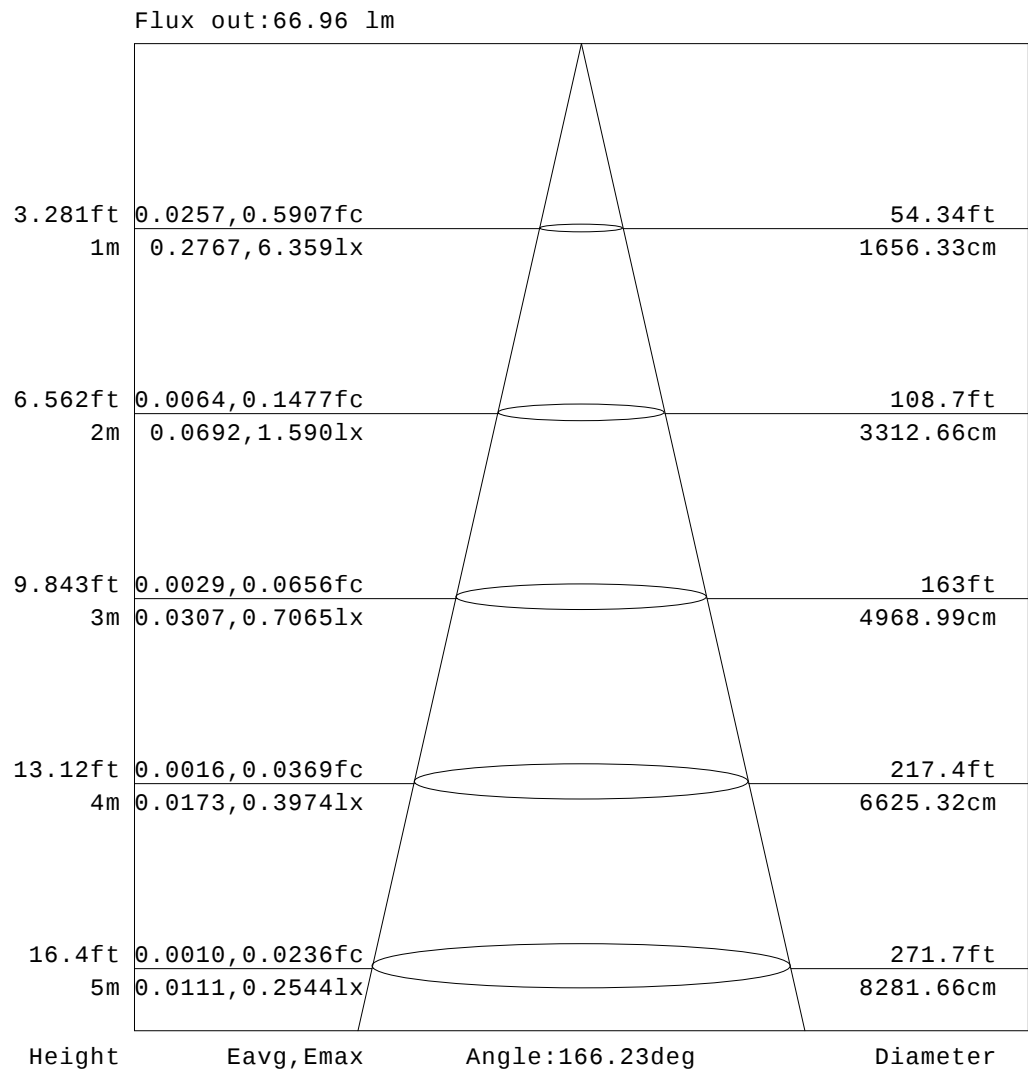
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2024-11-13

g Range: 0 - 180DEG
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Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:223.3V I:0.0490A P:6.520W PF:0.5930 Lamp Flux:735x2 lm		
NAME: 64G601	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024111302
MFR.:	SUR.:	PROTECTION ANGLE:



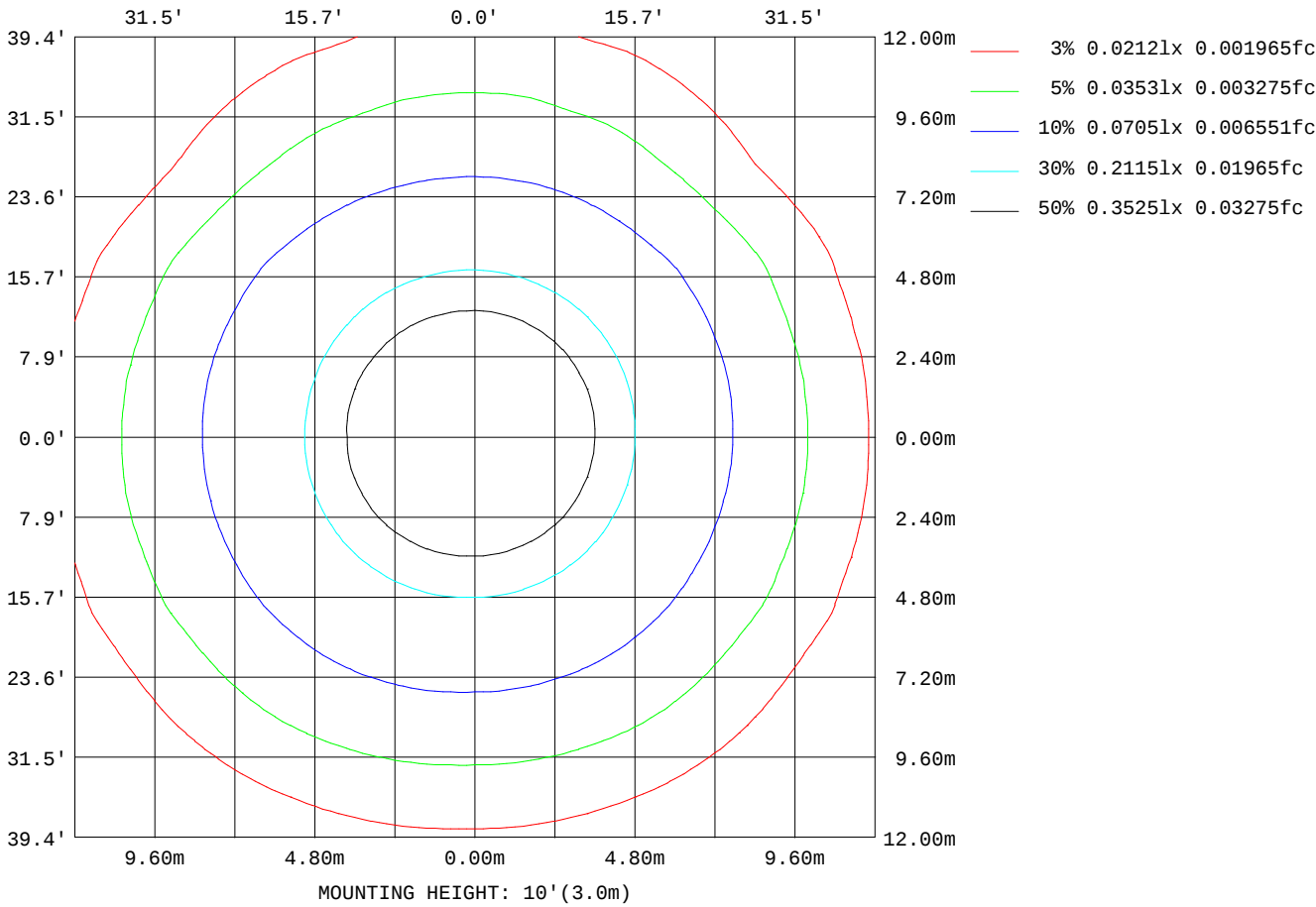
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG	g Range: 0 - 180DEG
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:2024-11-13	Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

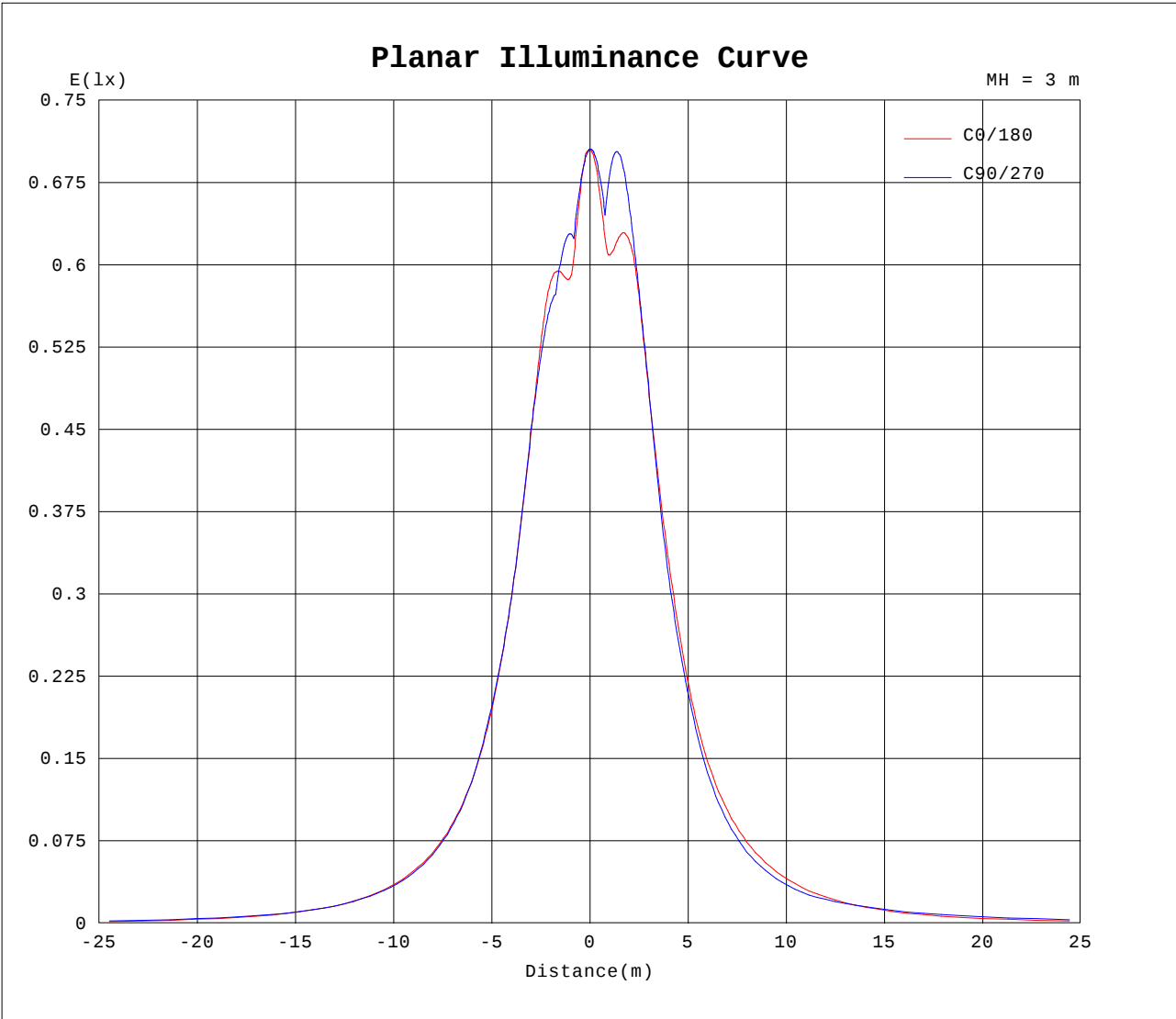
Test:U:223.3V I:0.0490A P:6.520W PF:0.5930 Lamp Flux:735x2 1m		
NAME: 64G601	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024111302
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2024-11-13

g Range: 0 - 180DEG
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:2024-11-13

g Range: 0 - 180DEG
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: