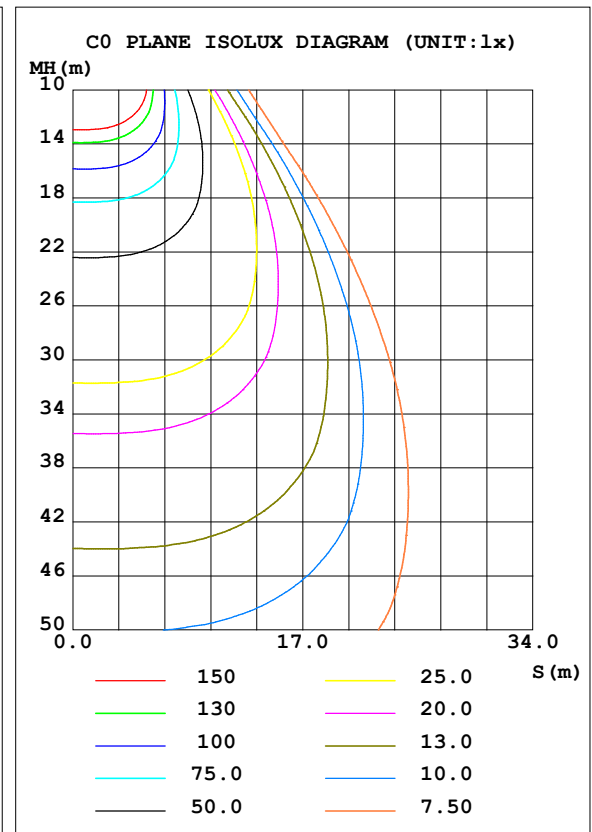
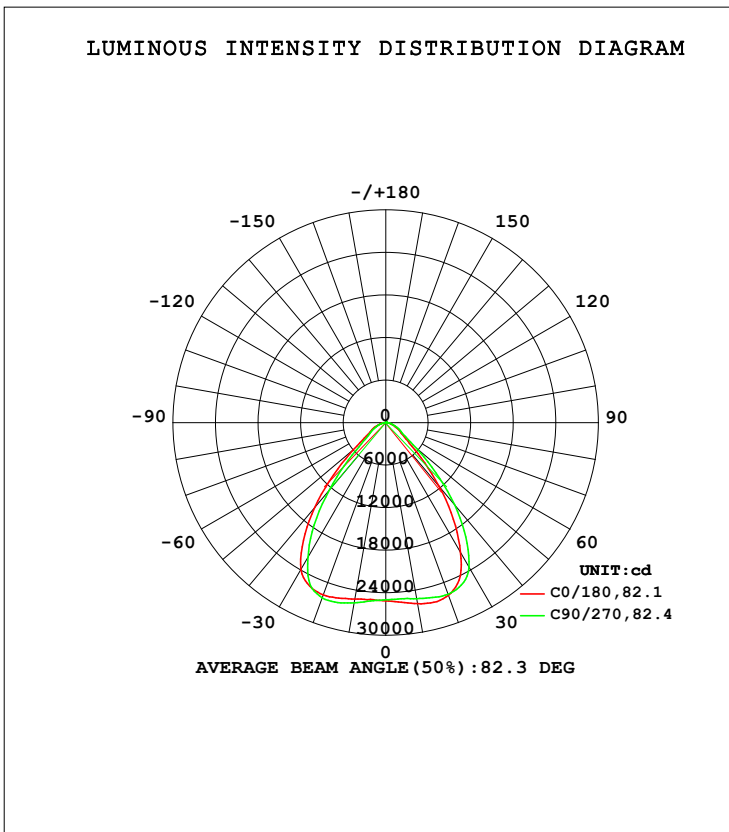


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:220.0V I:1.300A P:278.1W PF:0.9726 Freq:49.99Hz Lamp Flux:45381.5x1 lm		
NAME: GRIGIO 300W FLOOD LIGHT - 300108	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: BBT LIGHTING	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 163.17 lm/W			
MODEL		I <sub>max</sub> (cd)	26365	S/MH (C0/180)	1.23
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.15
RATED VOLTAGE (V)		TOTAL FLUX (lm)	45381	η UP, DN (C0-180)	0.2, 49.3
NOMINAL FLUX (lm)	45381.5	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1, 50.4
LAMPS INSIDE	1	η up (%)	0.3	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)		η down (%)	99.7	CIBSE SHR MAX	1.25



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2024-12-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.353  
 Humidity: 65.0%  
 Test Distance: 10.535m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum, lamp
10	2591	2521	2528	2581				0- 10	2415	2415	5.32,5.32
20	2591	2575	2584	2627				10- 20	7337	9752	21.5,21.5
30	2109	2352	2394	2198				20- 30	11444	21196	46.7,46.7
40	1169	1510	1562	1241				30- 40	11465	32661	72,72
50	406.6	573.2	600.8	413.6				40- 50	6844	39505	87.1,87.1
60	222.6	241.9	247.4	224.0				50- 60	2914	42419	93.5,93.5
70	116.5	135.3	136.3	114.2				60- 70	1773	44192	97.4,97.4
80	35.58	57.85	53.70	29.85				70- 80	888.3	45080	99.3,99.3
90	0.1641	0.7181	0.5080	0.1093				80- 90	169.0	45249	99.7,99.7
100	0.3367	0.4205	0.2425	0.2300				90-100	2.528	45252	99.7,99.7
110	0.6745	0.9399	0.4761	0.4210				100-110	4.700	45257	99.7,99.7
120	1.431	2.099	1.022	0.8935				110-120	9.387	45266	99.7,99.7
130	2.616	3.876	2.070	1.808				120-130	17.38	45283	99.8,99.8
140	3.780	5.304	3.286	2.924				130-140	24.89	45308	99.8,99.8
150	4.586	6.001	4.215	3.910				140-150	26.78	45335	99.9,99.9
160	5.340	6.673	5.101	4.887				150-160	23.34	45359	99.9,99.9
170	6.254	6.805	6.181	6.057				160-170	16.71	45375	100,100
180	6.572	6.968	6.599	6.952				170-180	6.237	45381	100,100
DEG	LUMINOUS INTENSITY:×10cd								UNIT:lm		

Conical surface Flux(90deg): 36795 lm

%lum = 81.1%

%lamp = 81.1%

Conical surface Flux(120deg): 42419 lm

%lum = 93.5%

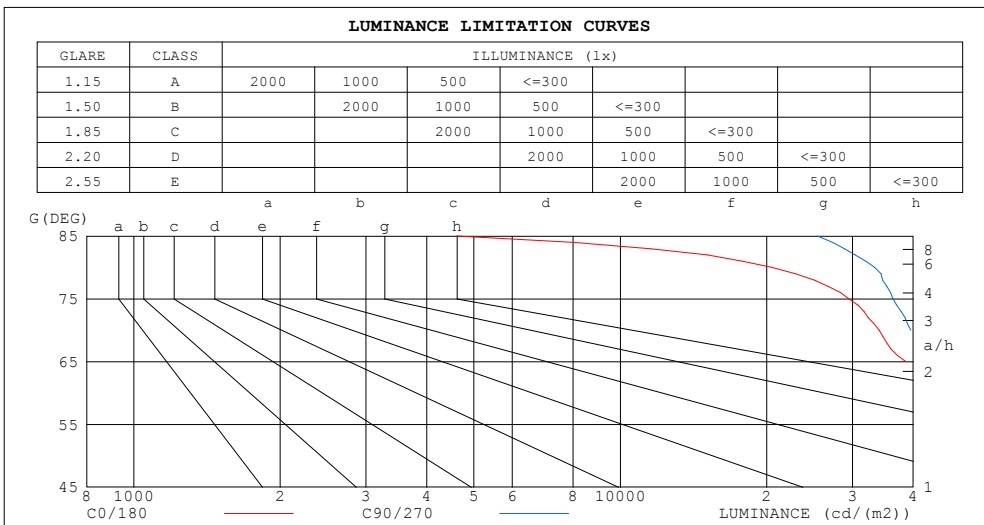
%lamp = 93.5%

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-12-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.353  
 Humidity:65.0%  
 Test Distance:10.535m [K=1.0000]  
 Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:220.0V I:1.300A P:278.1W PF:0.9726 Freq:49.99Hz Lamp Flux:45381.5x1 lm		
NAME: GRIGIO 300W FLOOD LIGHT - 300108	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: BBT LIGHTING	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4599	25393
80	20491	33313
75	29493	36326
70	34060	39548
65	38627	45809
60	44516	48389
55	48905	57277
50	63254	89172
45	100962	141394

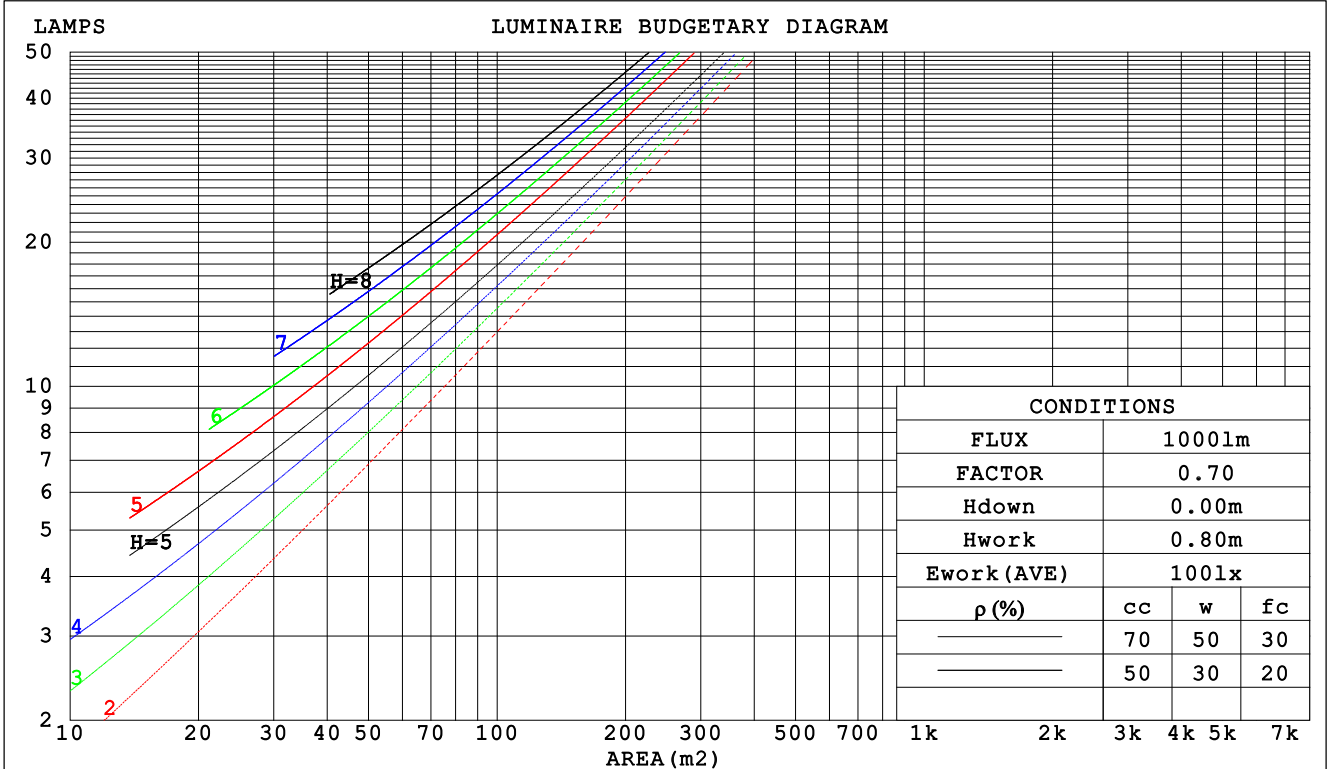
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-12-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.353  
 Humidity:65.0%  
 Test Distance:10.535m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.0V I:1.300A P:278.1W PF:0.9726 Freq:49.99Hz Lamp Flux:45381.5x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	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	.00
1.0	1.08	1.05	1.02	1.06	1.03	1.00	1.02	.99	.97	.98	.96	.94	.94	.93	.92	.90
2.0	.98	.93	.89	.96	.91	.88	.93	.89	.85	.90	.86	.84	.87	.84	.82	.80
3.0	.89	.83	.78	.88	.82	.77	.85	.80	.76	.82	.78	.74	.80	.76	.73	.71
4.0	.81	.74	.69	.80	.74	.69	.78	.72	.68	.75	.71	.67	.73	.69	.66	.64
5.0	.74	.67	.62	.73	.67	.61	.71	.65	.61	.70	.64	.60	.68	.63	.60	.58
6.0	.68	.61	.56	.67	.61	.55	.66	.60	.55	.64	.59	.55	.63	.58	.54	.52
7.0	.63	.56	.51	.62	.55	.50	.61	.55	.50	.59	.54	.50	.58	.53	.49	.48
8.0	.58	.51	.46	.58	.51	.46	.56	.50	.46	.55	.50	.45	.54	.49	.45	.44
9.0	.54	.47	.42	.54	.47	.42	.53	.46	.42	.51	.46	.42	.51	.45	.42	.40
10.0	.50	.44	.39	.50	.43	.39	.49	.43	.39	.48	.42	.39	.47	.42	.38	.37



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-12-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.353  
 Humidity:65.0%  
 Test Distance:10.535m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:220.0V I:1.300A P:278.1W PF:0.9726 Freq:49.99Hz Lamp Flux:45381.5x1 lm		
NAME: GRIGIO 300W FLOOD LIGHT - 300108	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: BBT LIGHTING	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						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.226	.129	.041	.220	.125	.040	.207	.118	.038	.195	.112	.036	.184	.106	.034	
2.0	.218	.120	.037	.212	.117	.036	.201	.112	.035	.191	.107	.034	.181	.103	.032	
3.0	.207	.110	.033	.202	.108	.033	.192	.104	.032	.183	.100	.031	.175	.097	.030	
4.0	.196	.102	.030	.191	.100	.030	.183	.097	.029	.175	.094	.028	.168	.091	.028	
5.0	.185	.094	.027	.181	.093	.027	.174	.090	.027	.167	.088	.026	.160	.086	.026	
6.0	.175	.088	.025	.172	.087	.025	.165	.085	.025	.159	.082	.024	.153	.080	.024	
7.0	.166	.082	.023	.163	.081	.023	.157	.079	.023	.151	.077	.023	.146	.076	.022	
8.0	.157	.077	.022	.155	.076	.022	.149	.075	.021	.144	.073	.021	.139	.072	.021	
9.0	.150	.072	.020	.147	.072	.020	.142	.070	.020	.138	.069	.020	.133	.068	.020	
10.0	.142	.068	.019	.140	.068	.019	.136	.066	.019	.132	.065	.019	.128	.064	.018	

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						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.193	.193	.193	.165	.165	.165	.112	.112	.112	.065	.065	.065	.021	.021	.021	
1.0	.177	.159	.143	.151	.137	.123	.103	.094	.085	.060	.054	.050	.019	.017	.016	
2.0	.165	.135	.109	.141	.116	.094	.097	.080	.066	.056	.047	.039	.018	.015	.013	
3.0	.155	.116	.085	.133	.100	.074	.091	.070	.052	.053	.041	.031	.017	.013	.010	
4.0	.146	.102	.069	.125	.088	.060	.086	.061	.042	.050	.036	.025	.016	.012	.008	
5.0	.138	.091	.056	.119	.079	.049	.082	.055	.034	.047	.032	.020	.015	.011	.007	
6.0	.132	.082	.047	.113	.071	.041	.078	.050	.029	.045	.029	.017	.015	.010	.006	
7.0	.125	.075	.040	.108	.065	.035	.074	.046	.025	.043	.027	.015	.014	.009	.005	
8.0	.120	.069	.035	.103	.060	.030	.071	.042	.021	.041	.025	.013	.013	.008	.004	
9.0	.114	.064	.030	.098	.056	.027	.068	.039	.019	.040	.023	.011	.013	.008	.004	
10.0	.109	.060	.027	.094	.052	.024	.065	.037	.017	.038	.022	.010	.012	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-12-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.353  
 Humidity:65.0%  
 Test Distance:10.535m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:220.0V I:1.300A P:278.1W PF:0.9726 Freq:49.99Hz Lamp Flux:45381.5x1 lm										
NAME: GRIGIO 300W FLOOD LIGHT - 300108					TYPE:LED			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:1		
MFR.: BBT LIGHTING					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	25.7	26.9	25.9	27.1	27.3	26.5	27.7	26.8	27.9	28.1
3H	26.1	27.2	26.4	27.4	27.6	26.9	28.0	27.2	28.2	28.5
4H	26.2	27.3	26.5	27.5	27.8	27.1	28.1	27.4	28.4	28.6
6H	26.3	27.3	26.6	27.6	27.8	27.2	28.2	27.6	28.5	28.8
8H	26.3	27.2	26.6	27.5	27.8	27.3	28.2	27.6	28.5	28.8
12H	26.3	27.2	26.6	27.5	27.7	27.3	28.2	27.6	28.5	28.8
4H 2H	25.8	26.8	26.1	27.1	27.3	26.5	27.6	26.8	27.8	28.1
3H	26.4	27.3	26.7	27.5	27.8	27.1	28.0	27.4	28.3	28.6
4H	26.6	27.4	27.0	27.8	28.1	27.4	28.2	27.8	28.5	28.8
6H	26.8	27.5	27.2	27.8	28.2	27.6	28.4	28.0	28.7	29.1
8H	26.8	27.5	27.2	27.8	28.2	27.7	28.4	28.1	28.7	29.1
12H	26.7	27.4	27.2	27.7	28.1	27.7	28.4	28.2	28.7	29.1
8H 4H	26.7	27.4	27.1	27.7	28.1	27.4	28.1	27.8	28.5	28.8
6H	26.9	27.5	27.4	27.9	28.3	27.8	28.3	28.2	28.7	29.1
8H	27.0	27.5	27.4	27.9	28.3	27.9	28.4	28.3	28.8	29.2
12H	26.9	27.4	27.4	27.8	28.3	27.9	28.4	28.4	28.8	29.3
12H 4H	26.7	27.3	27.1	27.7	28.1	27.4	28.0	27.8	28.4	28.8
6H	26.9	27.4	27.4	27.8	28.3	27.7	28.2	28.2	28.7	29.1
8H	27.0	27.4	27.5	27.8	28.3	27.9	28.3	28.4	28.7	29.2
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.7					+ 1.1 / - 1.6				
1.5H	+ 1.8 / - 1.5					+ 1.9 / - 1.7				
2.0H	+ 2.1 / - 1.0					+ 2.9 / - 1.1				

CIE Pub.117 Corrected 45381 lm Total Lamp Luminous Flux. (8log(F/F0) = 13.3)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-12-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.353  
 Humidity:65.0%  
 Test Distance:10.535m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:220.0V I:1.300A P:278.1W PF:0.9726 Freq:49.99Hz Lamp Flux:45381.5x1 lm		
NAME: GRIGIO 300W FLOOD LIGHT - 300108	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: BBT LIGHTING	SUR.:	Shielding Angle:

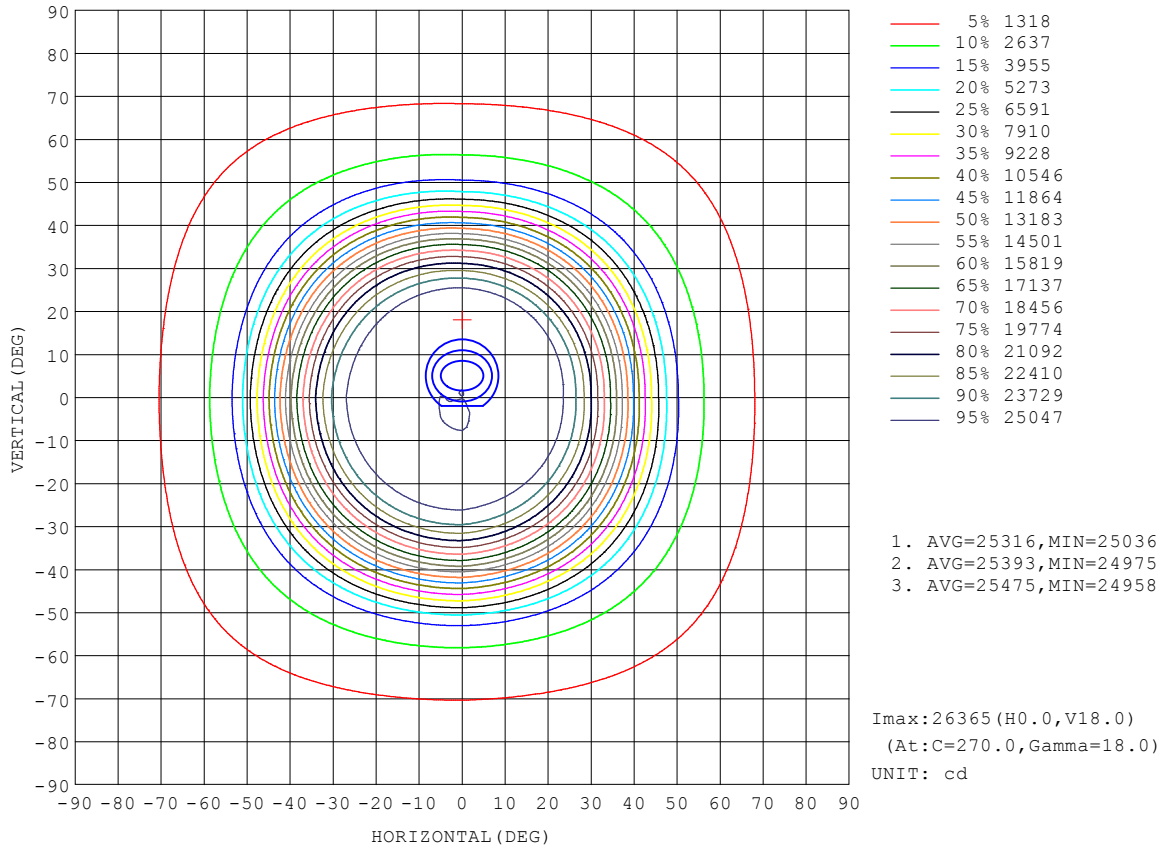
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	74	65	60	73	65	60	72	65	60	55
0.80	83	75	69	82	74	69	81	74	69	64
1.00	90	82	77	89	81	76	87	82	76	71
1.25	95	88	83	94	87	83	92	86	82	76
1.50	99	92	88	98	91	87	95	90	86	80
2.00	103	98	93	102	97	92	99	94	91	85
2.50	106	101	97	104	99	96	101	97	94	87
3.00	108	104	100	106	102	99	103	99	96	89
4.00	111	107	104	109	105	102	105	102	100	92
5.00	113	109	107	110	107	105	106	104	102	94
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-12-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.353  
 Humidity:65.0%  
 Test Distance:10.535m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

Test:U:220.0V I:1.300A P:278.1W PF:0.9726 Freq:49.99Hz Lamp Flux:45381.5x1 lm		
NAME: GRIGIO 300W FLOOD LIGHT - 300108	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: BBT LIGHTING	SUR.:	Shielding Angle:



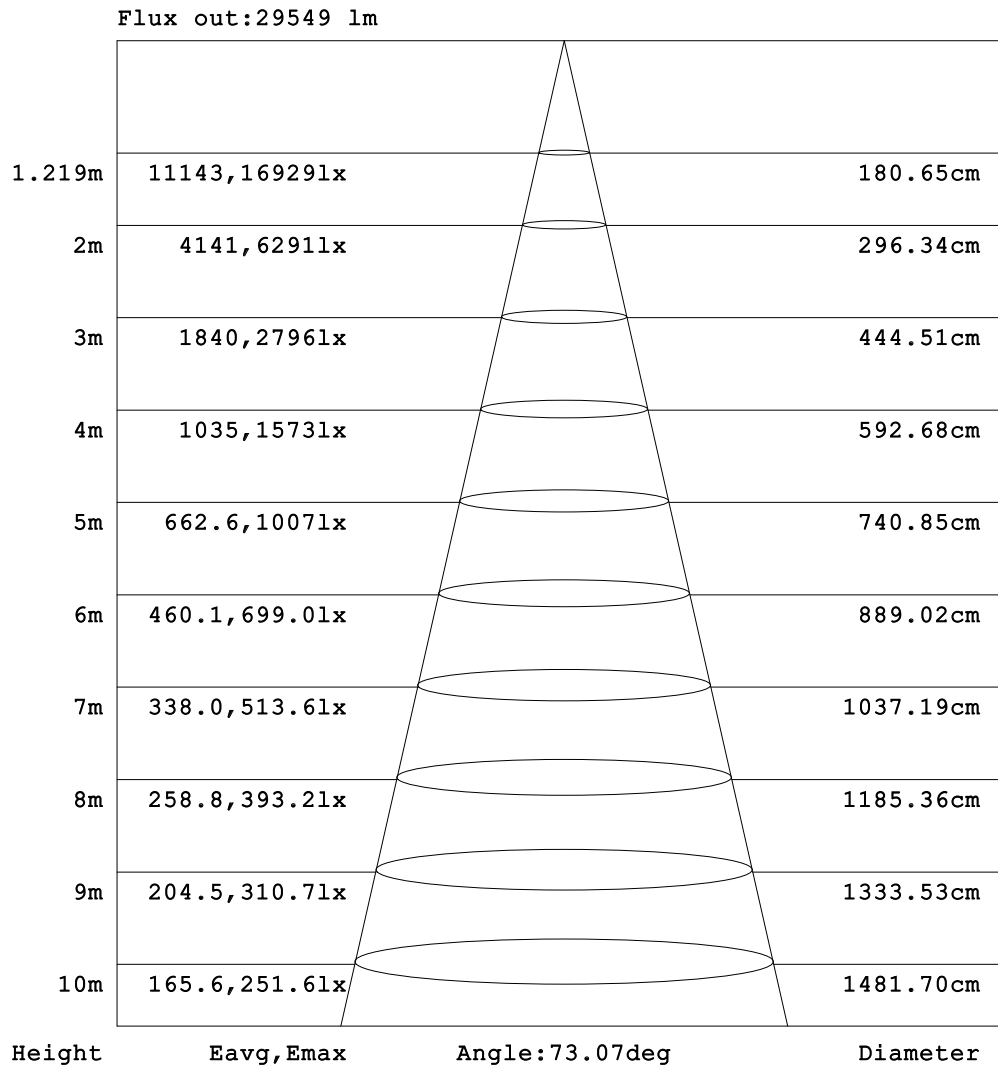
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-12-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.353  
 Humidity:65.0%  
 Test Distance:10.535m [K=1.0000]  
 Remarks:



**AAI Figure**

Test:U:220.0V I:1.300A P:278.1W PF:0.9726 Freq:49.99Hz Lamp Flux:45381.5x1 lm		
NAME: GRIGIO 300W FLOOD LIGHT - 300108	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: BBT LIGHTING	SUR.:	Shielding Angle:



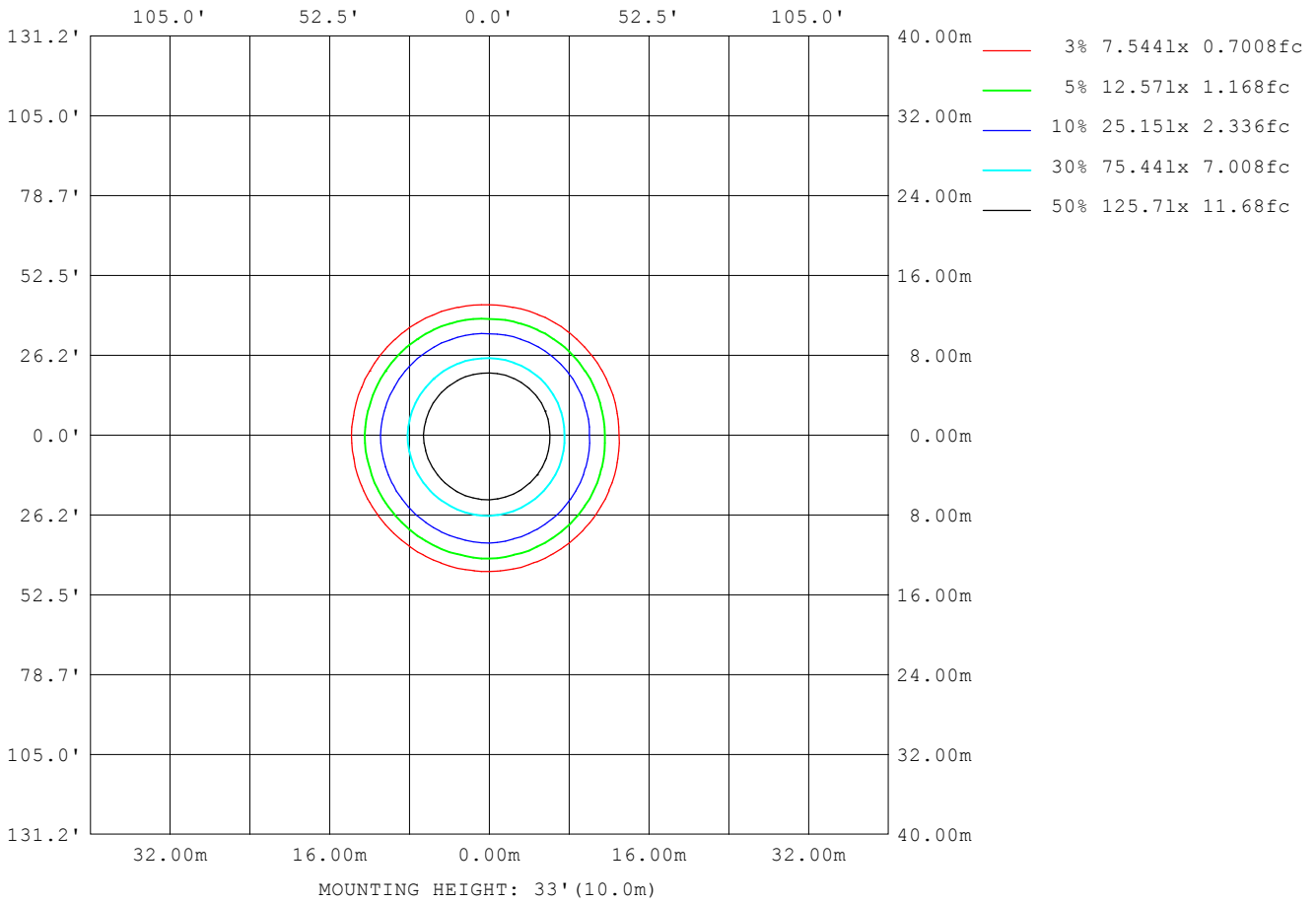
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-12-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.353  
 Humidity:65.0%  
 Test Distance:10.535m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

Test:U:220.0V I:1.300A P:278.1W PF:0.9726 Freq:49.99Hz Lamp Flux:45381.5x1 lm		
NAME: GRIGIO 300W FLOOD LIGHT - 300108	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: BBT LIGHTING	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-12-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.353  
 Humidity:65.0%  
 Test Distance:10.535m [K=1.0000]  
 Remarks:

**LED Avg.L Report**

Test:U:220.0V I:1.300A P:278.1W PF:0.9726 Freq:49.99Hz Lamp Flux:45381.5x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

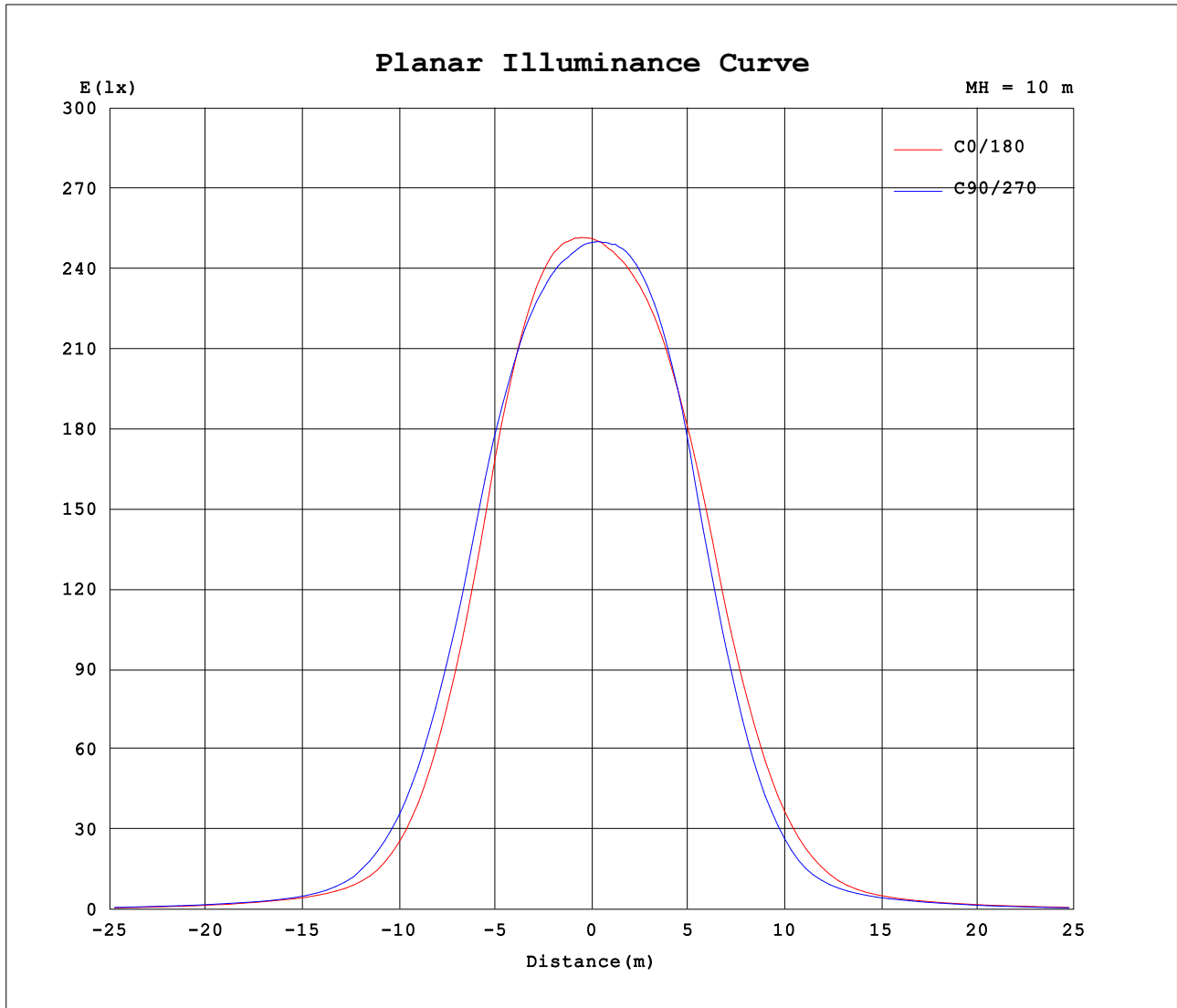
AvgL	cd/m2
L_0~180 (65) av	42484
L_0~180 (75) av	32527
L_0~180 (85) av	13257
L_90~270 (65) av	42166
L_90~270 (75) av	32335
L_90~270 (85) av	14047
L_45 (65) av	42526
L_45 (75) av	32597
L_45 (85) av	14292

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-12-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.353  
 Humidity:65.0%  
 Test Distance:10.535m [K=1.0000]  
 Remarks:

**Planar Illuminance Curve**



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2024-12-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.353  
 Humidity: 65.0%  
 Test Distance: 10.535m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:1.300A P:278.1W PF:0.9726 Freq:49.99Hz Lamp Flux:45381.5x1 lm		
NAME: GRIGIO 300W FLOOD LIGHT - 300108	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: BBT LIGHTING	SUR.:	Shielding Angle:

Table--1

UNIT: x10cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	2513	2498	2513	2498															
5	2543	2494	2504	2525															
10	2591	2521	2528	2581															
15	2624	2554	2562	2626															
20	2591	2575	2584	2627															
25	2450	2527	2543	2527															
30	2109	2352	2394	2198															
35	1667	1971	2027	1764															
40	1169	1510	1562	1241															
45	714	1000	1044	754															
50	407	573	601	414															
55	281	329	342	281															
60	223	242	247	224															
65	163	194	196	163															
70	116	135	136	114															
75	76.3	94.0	92.0	73.4															
80	35.6	57.8	53.7	29.8															
85	4.01	22.1	19.1	2.35															
90	0.16	0.72	0.51	0.11															
95	0.24	0.29	0.17	0.16															
100	0.34	0.42	0.24	0.23															
105	0.47	0.62	0.34	0.31															
110	0.67	0.94	0.48	0.42															
115	0.99	1.43	0.69	0.60															
120	1.43	2.10	1.02	0.89															
125	2.00	2.96	1.49	1.30															
130	2.62	3.88	2.07	1.81															
135	3.22	4.69	2.69	2.37															
140	3.78	5.30	3.29	2.92															
145	4.23	5.71	3.80	3.44															
150	4.59	6.00	4.22	3.91															
155	4.92	6.31	4.63	4.37															
160	5.34	6.67	5.10	4.89															
165	5.81	6.88	5.65	5.46															
170	6.25	6.81	6.18	6.06															
175	6.56	6.91	6.50	6.58															
180	6.57	6.97	6.60	6.95															

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-12-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.353  
 Humidity:65.0%  
 Test Distance:10.535m [K=1.0000]  
 Remarks: