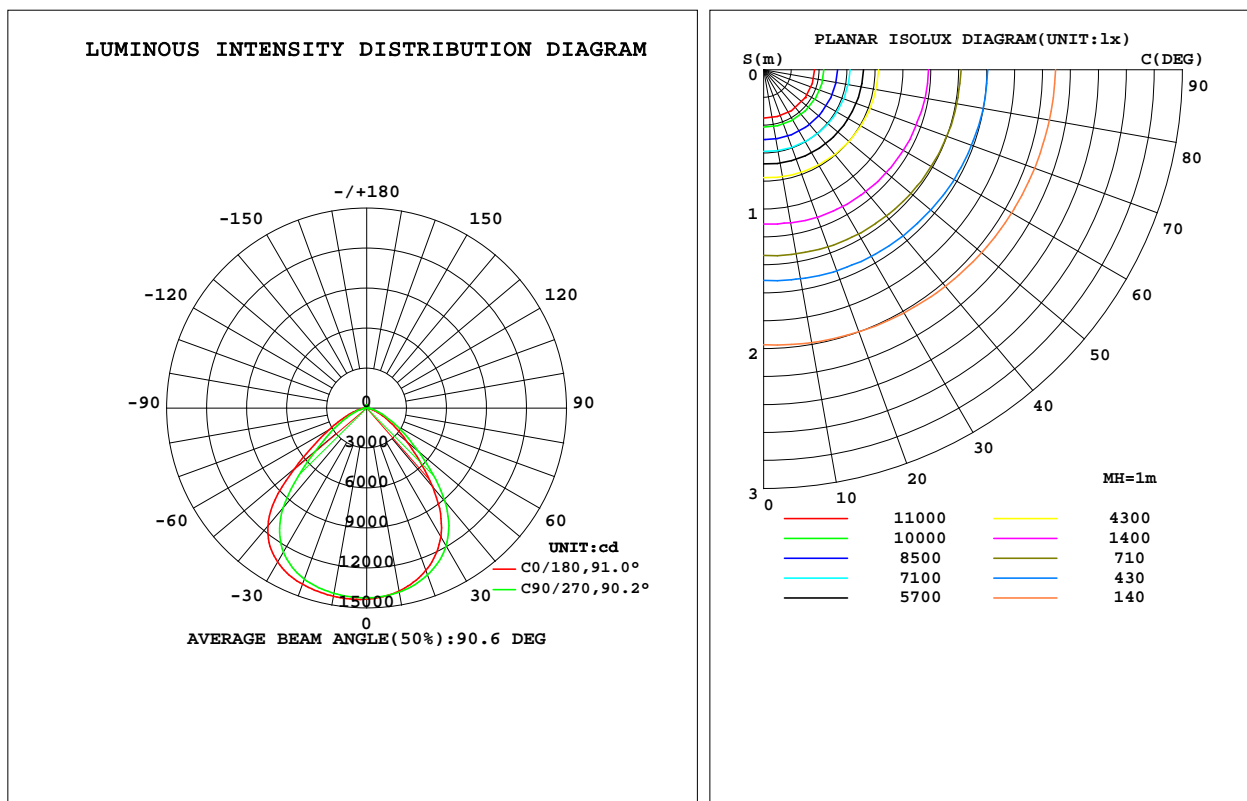


## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:222.9V I:0.8980A P:196.5W PF:0.9810 Lamp Flux:30291.7x1 lm		
NAME: CT5-UFO200W	TYPE:CT5-UFO200W	WEIGHT:1
DIM.: 364X176.6MM	SPEC.:200W	SERIAL No.:001
MFR.: EVERFINE	SUR.:0.22X0.22	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 154.16 lm/W			
MODEL	CT5-UFO200W	I <sub>max</sub> (cd)	14374	S/MH(C0/180)	1.16
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	224	TOTAL FLUX(lm)	30292	η UP,DN(C0-180)	0.9,44.8
NOMINAL FLUX(lm)	30291.7	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,53.1
LAMPS INSIDE	1	η up(%)	2.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	223.1	η down(%)	97.9	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-22

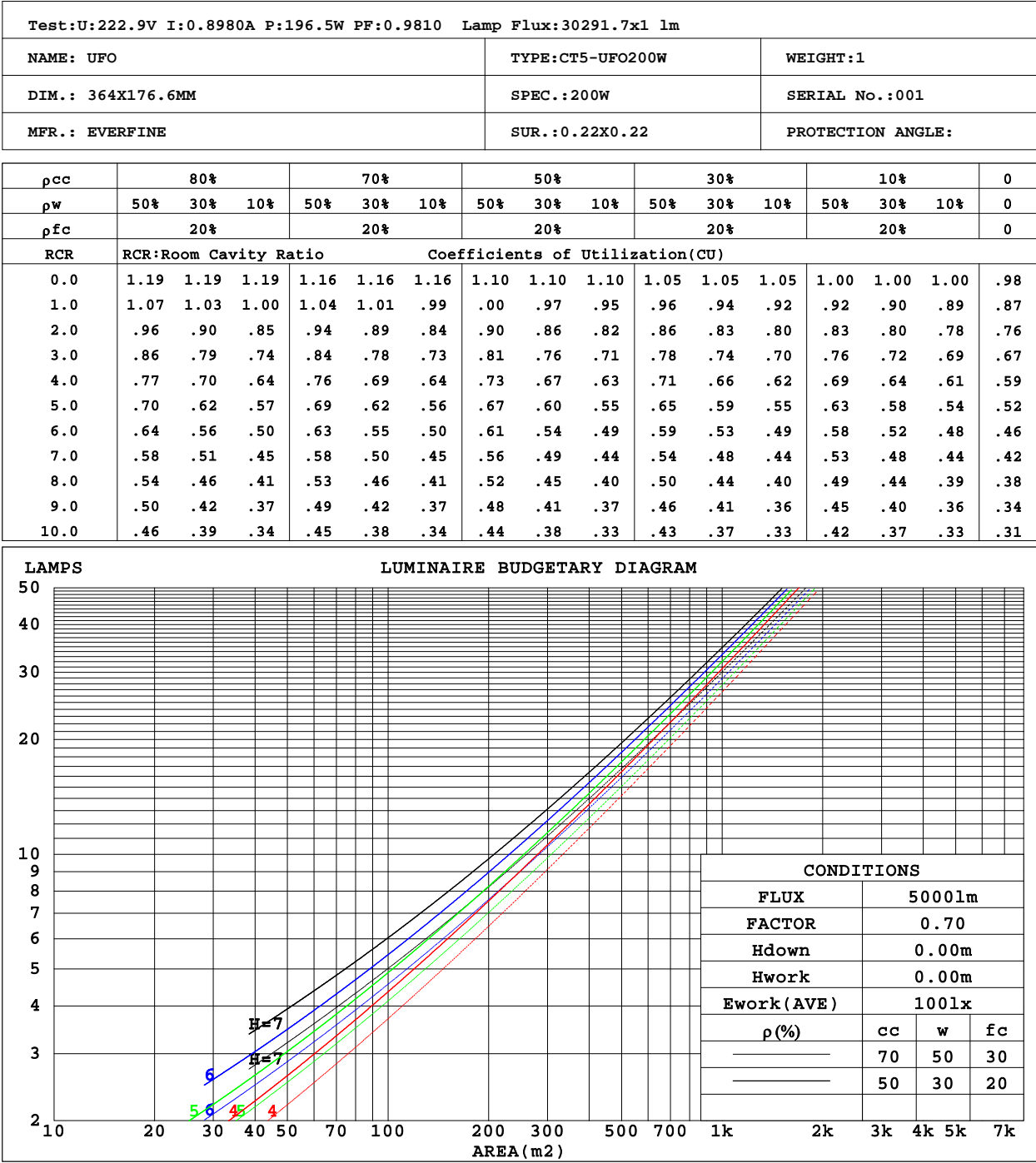
γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.269  
Humidity:65.0%  
Test Distance:5.680m [K=1.0000]  
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C90	C180	C270					$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum,lamp
10	1395	1403	1434	1411					0- 10	1355	1355	4.47,4.47
20	1297	1332	1407	1367					10- 20	3916	5271	17.4,17.4
30	1114	1192	1335	1249					20- 30	5974	11245	37.1,37.1
40	769.6	913.8	1153	975.8					30- 40	6899	18144	59.9,59.9
50	400.3	504.7	707.5	503.8					40- 50	5703	23846	78.7,78.7
60	193.9	249.2	328.1	242.1					50- 60	3361	27207	89.8,89.8
70	74.96	105.4	143.6	100.4					60- 70	1697	28904	95.4,95.4
80	7.493	28.68	46.44	22.81					70- 80	662.8	29567	97.6,97.6
90	3.155	2.714	2.413	2.794					80- 90	94.63	29661	97.9,97.9
100	4.600	3.970	3.964	4.704					90-100	37.93	29699	98,98
110	6.400	5.659	6.446	7.458					100-110	56.58	29756	98.2,98.2
120	8.371	7.637	9.650	10.71					110-120	76.99	29833	98.5,98.5
130	10.46	9.727	13.02	14.02					120-130	93.53	29926	98.8,98.8
140	12.88	12.02	16.03	16.77					130-140	101.3	30028	99.1,99.1
150	15.80	14.75	18.46	18.99					140-150	98.28	30126	99.5,99.5
160	19.29	18.17	20.59	20.94					150-160	84.62	30211	99.7,99.7
170	22.36	21.54	22.55	22.56					160-170	59.33	30270	99.9,99.9
180	23.29	23.09	23.49	22.93					170-180	21.71	30292	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360DEG

C Interval: 90.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:DAMIN

Test Date:2024-10-22

$\gamma$  Range: 0 - 180DEG

$\gamma$  Interval: 1.0DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.269

Humidity:65.0%

Test Distance:5.680m [K=1.0000]

Remarks:

## WEC AND CCEC

Test:U:222.9V I:0.8980A P:196.5W PF:0.9810 Lamp Flux:30291.7x1 lm		
NAME: UFO	TYPE:CT5-UFO200W	WEIGHT:1
DIM.: 364X176.6MM	SPEC.:200W	SERIAL No.:001
MFR.: EVERFINE	SUR.:0.22X0.22	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio                      Wall Exitance Coefficients(WEC)															
0.0																
1.0	.244	.139	.044	.236	.135	.043	.222	.127	.041	.209	.121	.039	.197	.114	.037	
2.0	.237	.130	.040	.230	.127	.039	.218	.121	.038	.206	.116	.036	.196	.111	.035	
3.0	.225	.120	.036	.219	.117	.035	.208	.113	.034	.198	.109	.033	.189	.105	.032	
4.0	.212	.110	.032	.207	.108	.032	.197	.105	.031	.188	.101	.031	.180	.098	.030	
5.0	.200	.102	.029	.195	.100	.029	.187	.097	.029	.179	.094	.028	.171	.091	.027	
6.0	.188	.094	.027	.184	.093	.027	.176	.090	.026	.169	.088	.026	.163	.086	.025	
7.0	.177	.088	.025	.174	.087	.025	.167	.084	.024	.160	.082	.024	.154	.080	.024	
8.0	.167	.082	.023	.164	.081	.023	.158	.079	.023	.152	.077	.022	.147	.075	.022	
9.0	.158	.077	.021	.156	.076	.021	.150	.074	.021	.145	.073	.021	.140	.071	.020	
10.0	.150	.072	.020	.148	.071	.020	.142	.070	.020	.138	.068	.019	.133	.067	.019	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.206	.206	.206	.176	.176	.176	.120	.120	.120	.069	.069	.069	.022	.022	.022	
1.0	.192	.173	.156	.164	.148	.134	.112	.102	.093	.065	.059	.054	.021	.019	.017	
2.0	.181	.148	.121	.155	.128	.104	.106	.088	.073	.061	.051	.043	.020	.017	.014	
3.0	.172	.130	.097	.147	.112	.084	.101	.078	.059	.058	.046	.035	.019	.015	.011	
4.0	.164	.116	.080	.141	.101	.070	.097	.070	.049	.056	.041	.029	.018	.013	.010	
5.0	.157	.106	.068	.135	.091	.059	.093	.064	.042	.054	.037	.025	.017	.012	.008	
6.0	.150	.097	.059	.129	.084	.052	.089	.059	.036	.052	.035	.022	.017	.011	.007	
7.0	.144	.090	.053	.124	.078	.046	.085	.055	.032	.050	.032	.019	.016	.011	.006	
8.0	.138	.084	.047	.119	.073	.041	.082	.051	.029	.048	.030	.017	.015	.010	.006	
9.0	.132	.079	.043	.114	.069	.038	.079	.048	.027	.046	.029	.016	.015	.009	.005	
10.0	.127	.075	.040	.110	.065	.035	.076	.046	.025	.044	.027	.015	.014	.009	.005	

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2024-10-22

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:5.680m [K=1.0000]  
 Remarks:

## Uncorrected UGR Table

Test:U:222.9V I:0.8980A P:196.5W PF:0.9810 Lamp Flux:30291.7x1 lm											
NAME: UFO					TYPE:CT5-UFO200W			WEIGHT:1			
DIM.: 364X176.6MM					SPEC.:200W			SERIAL No.:001			
MFR.: EVERFINE					SUR.:0.22X0.22			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	28.5	29.8	28.8	30.0	30.2	29.3	30.6	29.6	30.8	31.1	
	3H	28.8	30.0	29.1	30.2	30.5	29.7	30.9	30.0	31.2	31.4
	4H	28.8	29.9	29.1	30.2	30.5	29.8	31.0	30.2	31.2	31.5
	6H	28.7	29.8	29.1	30.1	30.4	29.9	30.9	30.2	31.2	31.5
	8H	28.7	29.7	29.1	30.0	30.3	29.8	30.8	30.2	31.1	31.5
	12H	28.6	29.6	29.0	29.9	30.3	29.8	30.7	30.2	31.1	31.4
4H	2H	28.7	29.8	29.0	30.1	30.4	29.4	30.5	29.7	30.8	31.1
	3H	29.1	30.0	29.5	30.4	30.7	29.9	30.9	30.3	31.2	31.5
	4H	29.2	30.0	29.6	30.4	30.8	30.1	31.0	30.5	31.3	31.7
	6H	29.1	29.9	29.6	30.3	30.7	30.2	30.9	30.6	31.3	31.7
	8H	29.1	29.8	29.5	30.2	30.6	30.2	30.9	30.6	31.3	31.7
	12H	29.0	29.7	29.5	30.1	30.5	30.1	30.8	30.6	31.2	31.6
8H	4H	29.2	29.9	29.6	30.3	30.7	30.1	30.8	30.5	31.2	31.6
	6H	29.1	29.7	29.6	30.2	30.6	30.2	30.7	30.6	31.2	31.6
	8H	29.1	29.6	29.6	30.1	30.6	30.2	30.7	30.6	31.1	31.6
	12H	29.1	29.5	29.6	30.0	30.5	30.1	30.5	30.6	31.0	31.5
12H	4H	29.1	29.8	29.6	30.2	30.6	30.0	30.7	30.5	31.1	31.5
	6H	29.1	29.6	29.6	30.1	30.6	30.1	30.6	30.6	31.1	31.6
	8H	29.1	29.5	29.6	30.0	30.5	30.1	30.5	30.6	31.0	31.5
Variations with the observer position at spacings:											
S = 1.0H	+ 1.0 / - 1.4					+ 0.8 / - 1.0					
1.5H	+ 0.8 / - 0.9					+ 0.7 / - 0.7					
2.0H	+ 1.8 / - 1.6					+ 1.9 / - 1.7					

CIE Pub.117 Corrected 30292 lm Total Lamp Luminous Flux.(8log(F/F0) = 11.9)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2024-10-22

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:5.680m [K=1.0000]  
 Remarks:

## UTILIZATION FACTORS TABLE

Test:U:222.9V I:0.8980A P:196.5W PF:0.9810 Lamp Flux:30291.7x1 lm		
NAME: UFO	TYPE:CT5-UFO200W	WEIGHT:1
DIM.: 364X176.6MM	SPEC.:200W	SERIAL No.:001
MFR.: EVERFINE	SUR.:0.22X0.22	PROTECTION ANGLE:

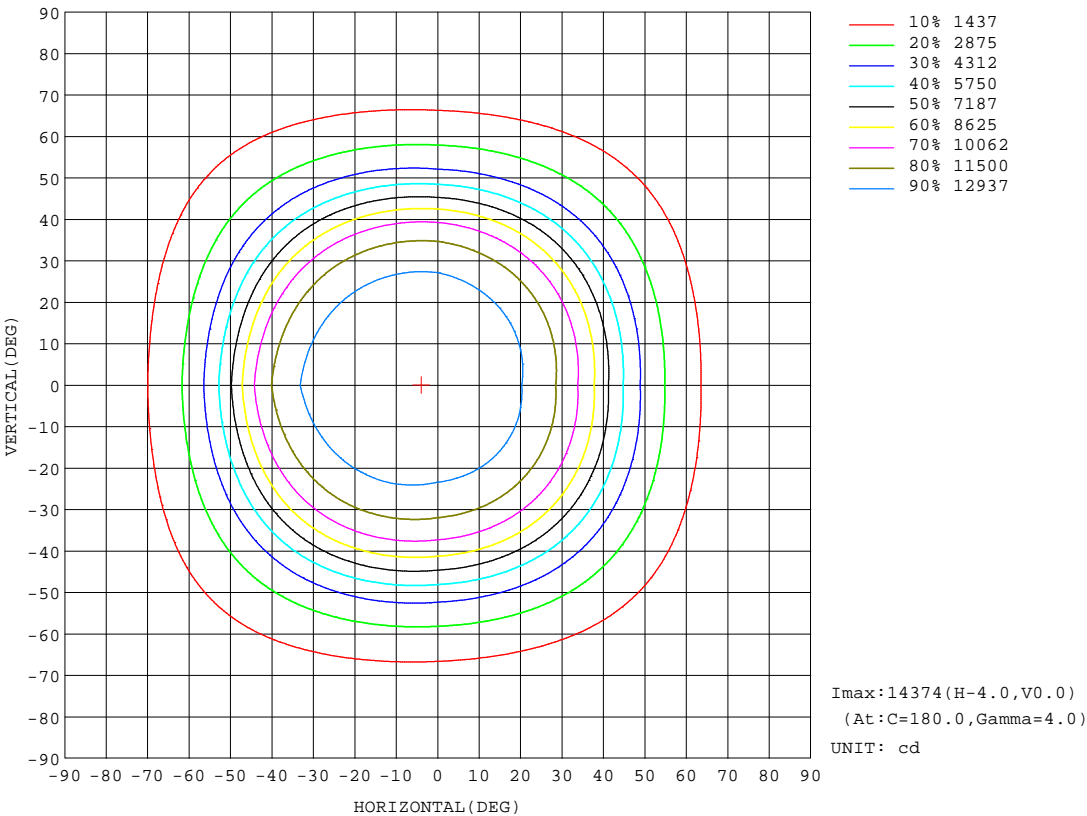
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	66	56	50	65	56	50	64	55	50	44
0.80	76	67	60	75	66	60	73	65	60	54
1.00	84	75	69	83	74	69	81	75	68	62
1.25	91	82	76	89	81	76	86	80	75	69
1.50	95	87	82	93	86	81	90	84	80	73
2.00	100	94	89	99	92	88	95	90	86	79
2.50	103	97	93	101	96	92	97	93	89	82
3.00	106	101	96	104	99	95	100	96	93	85
4.00	109	105	101	107	103	99	102	99	96	88
5.00	111	107	104	108	105	102	104	101	99	90
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:DAMIN  
 Test Date:2024-10-22

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:5.680m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:222.9V I:0.8980A P:196.5W PF:0.9810 Lamp Flux:30291.7x1 lm		
NAME: UFO	TYPE:CT5-UFO200W	WEIGHT:1
DIM.: 364X176.6MM	SPEC.:200W	SERIAL No.:001
MFR.: EVERFINE	SUR.:0.22X0.22	PROTECTION ANGLE:



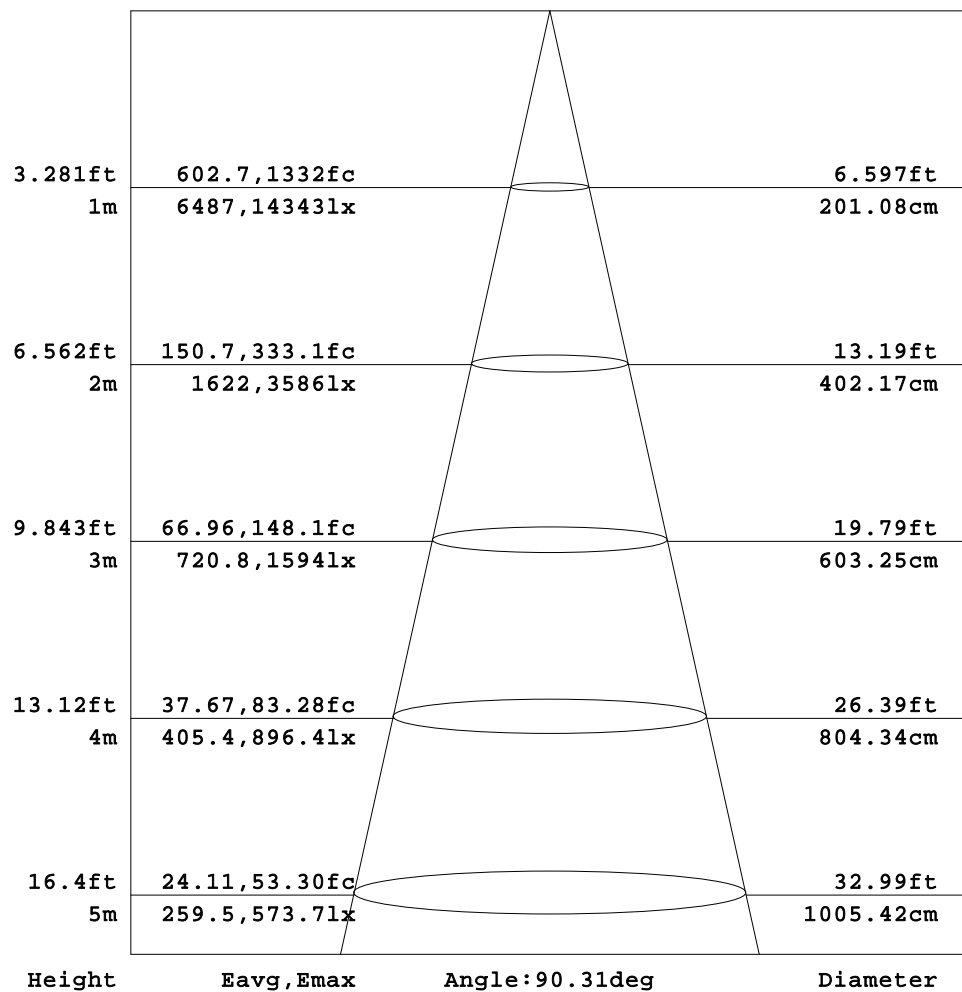
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-22

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.269  
Humidity:65.0%  
Test Distance:5.680m [K=1.0000]  
Remarks:

## AAI Figure

Test:U:222.9V I:0.8980A P:196.5W PF:0.9810 Lamp Flux:30291.7x1 lm		
NAME: UFO	TYPE:CT5-UFO200W	WEIGHT:1
DIM.: 364X176.6MM	SPEC.:200W	SERIAL No.:001
MFR.: EVERFINE	SUR.:0.22X0.22	PROTECTION ANGLE:

Flux out:21853 lm



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

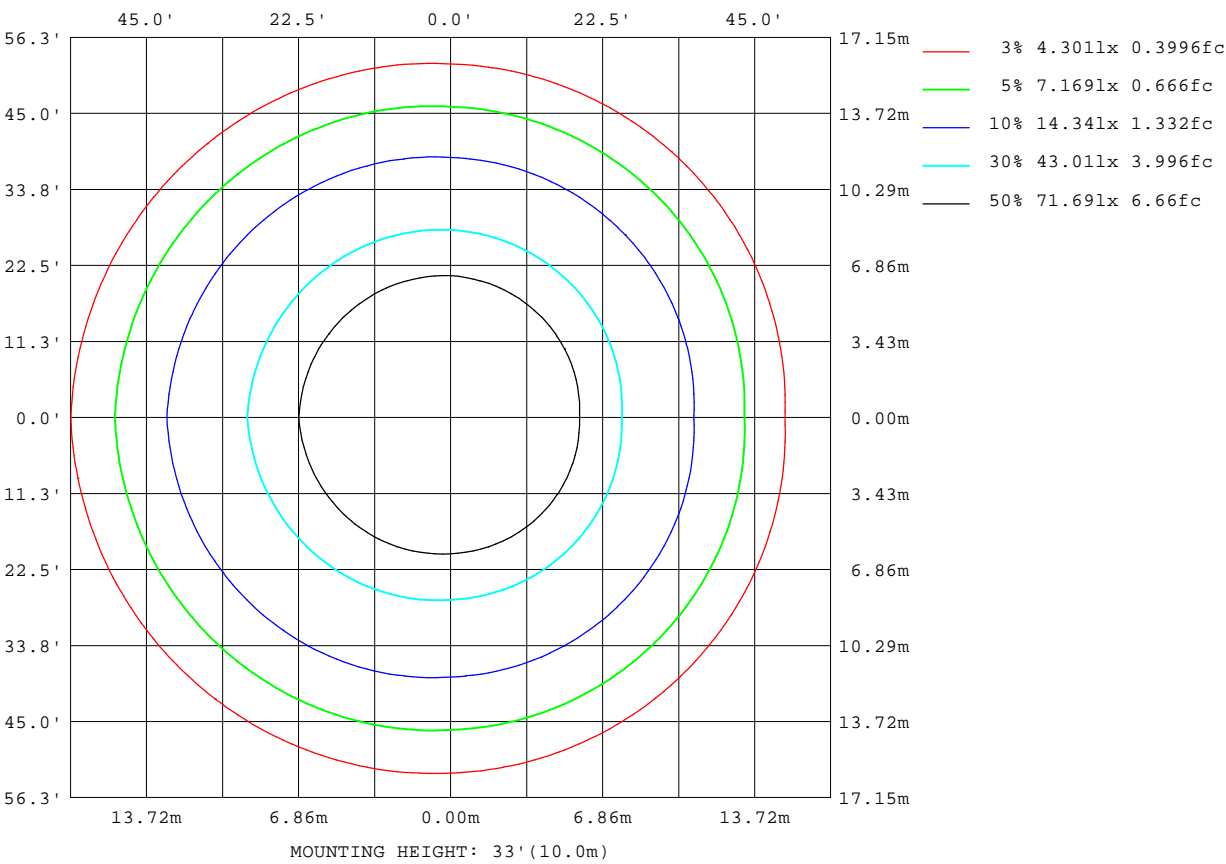
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2024-10-22

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 5.680m [K=1.0000]  
Remarks:



ISOLUX DIAGRAM

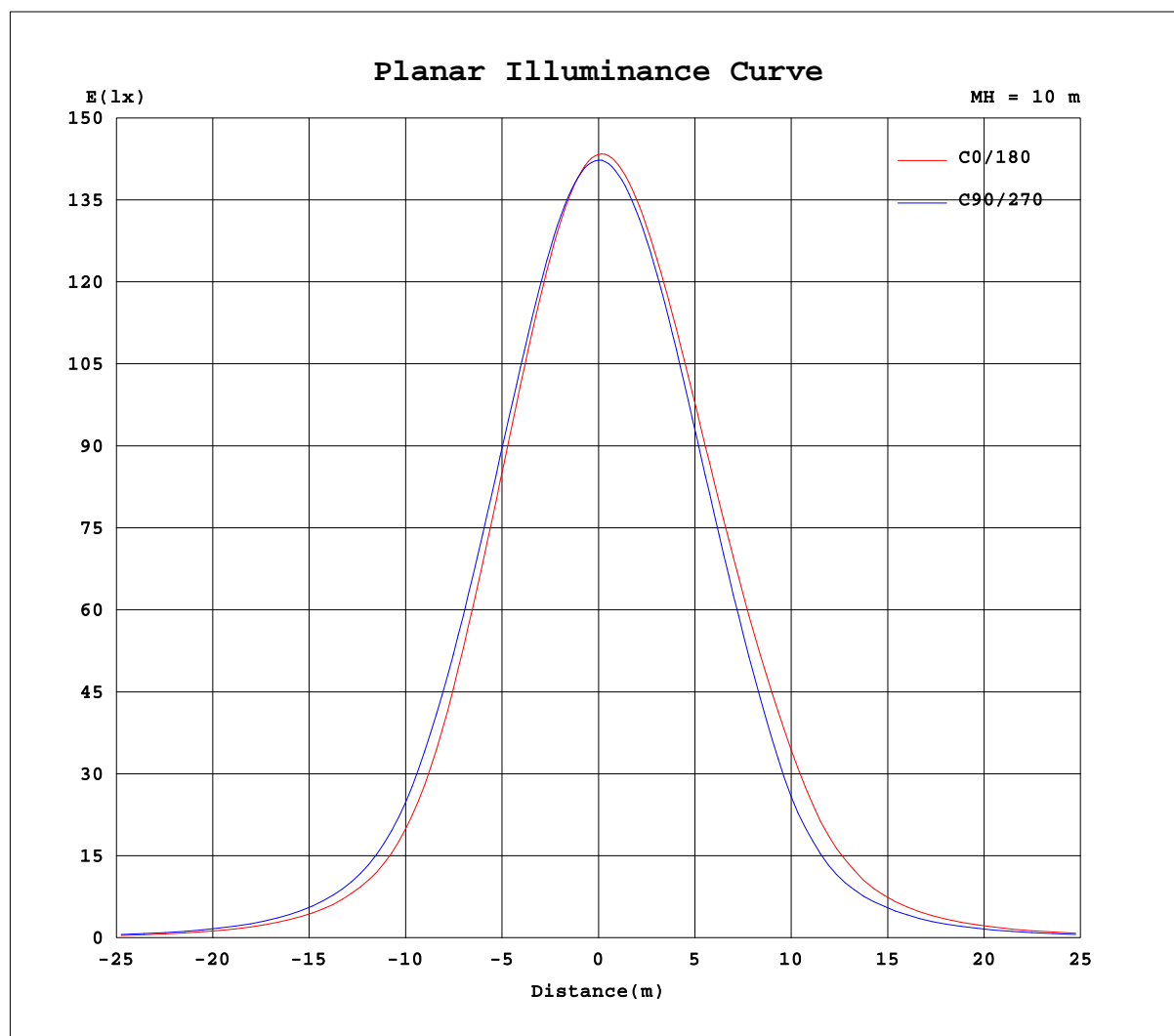
Test:U:222.9V I:0.8980A P:196.5W PF:0.9810 Lamp Flux:30291.7x1 lm		
NAME: UFO	TYPE:CT5-UFO200W	WEIGHT:1
DIM.: 364X176.6MM	SPEC.:200W	SERIAL No.:001
MFR.: EVERFINE	SUR.:0.22X0.22	PROTECTION ANGLE:



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-22

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.269  
Humidity:65.0%  
Test Distance:5.680m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2024-10-22

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 5.680m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:222.9V I:0.8980A P:196.5W PF:0.9810    Lamp Flux:30291.7x1 lm		
NAME: UFO	TYPE:CT5-UFO200W	WEIGHT:1
DIM.: 364X176.6MM	SPEC.:200W	SERIAL No.:001
MFR.: EVERFINE	SUR.:0.22X0.22	PROTECTION ANGLE:

Table--1				UNIT: ×10cd															
C(DEG) γ (DEG)	0	90	180	270															
0	1434	1423	1434	1423															
5	1419	1418	1437	1421															
10	1395	1403	1434	1411															
15	1354	1375	1423	1395															
20	1297	1332	1407	1367															
25	1220	1274	1380	1320															
30	1114	1192	1335	1249															
35	967	1076	1266	1141															
40	770	914	1153	976															
45	566	703	974	731															
50	400	505	708	504															
55	282	361	480	353															
60	194	249	328	242															
65	125	165	219	161															
70	75.0	105	144	100															
75	38.3	62.7	86.4	58.1															
80	7.49	28.7	46.4	22.8															
85	2.65	2.99	14.0	2.30															
90	3.15	2.71	2.41	2.79															
95	3.82	3.28	3.05	3.64															
100	4.60	3.97	3.96	4.70															
105	5.47	4.77	5.10	5.99															
110	6.40	5.66	6.45	7.46															
115	7.37	6.62	8.01	9.05															
120	8.37	7.64	9.65	10.7															
125	9.40	8.67	11.3	12.4															
130	10.5	9.73	13.0	14.0															
135	11.6	10.8	14.6	15.5															
140	12.9	12.0	16.0	16.8															
145	14.2	13.3	17.3	17.9															
150	15.8	14.8	18.5	19.0															
155	17.5	16.4	19.5	20.0															
160	19.3	18.2	20.6	20.9															
165	21.0	20.0	21.6	21.8															
170	22.4	21.5	22.6	22.6															
175	23.1	22.6	23.2	23.0															
180	23.3	23.1	23.5	22.9															

C Range: 0 - 360DEG	γ Range: 0 - 180DEG
C Interval: 90.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Temperature:25.3DEG	Humidity:65.0%
Operators:DAMIN	Test Distance:5.680m [K=1.0000]
Test Date:2024-10-22	Remarks: