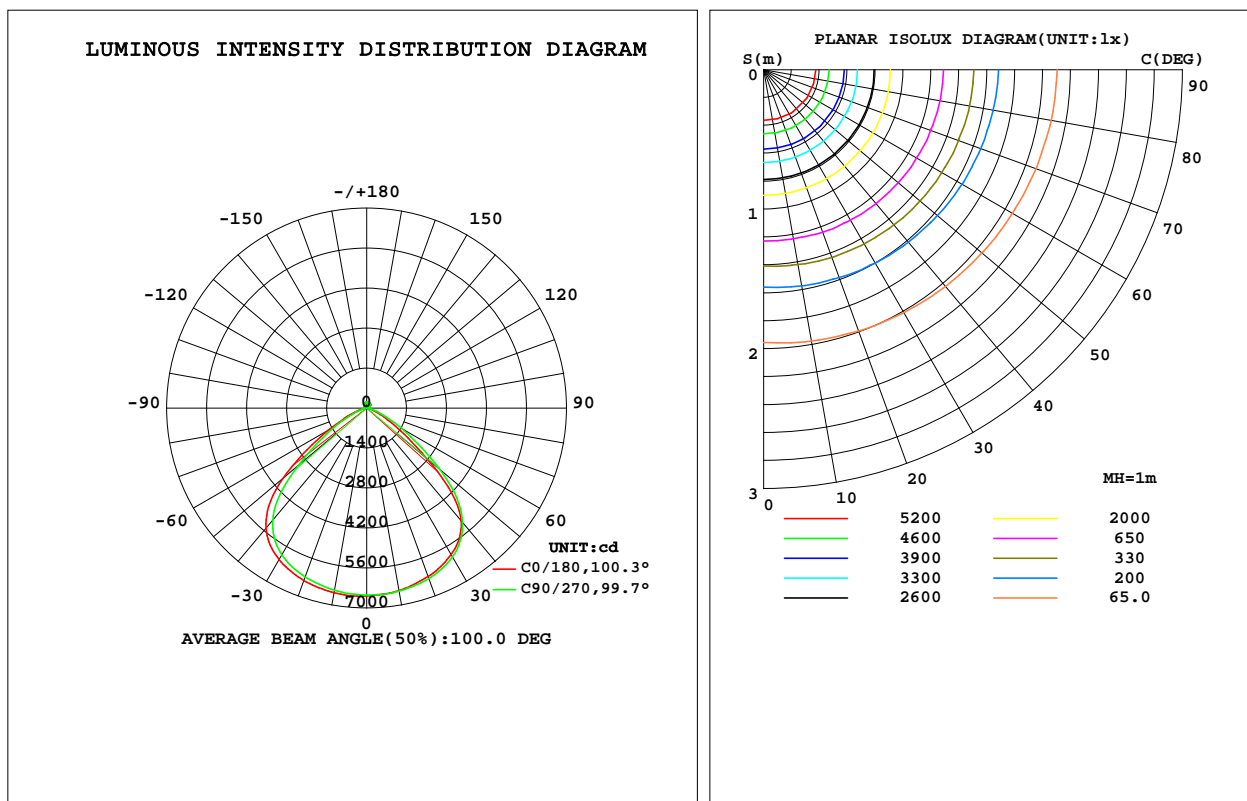


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.8V I:0.4780A P:102.5W PF:0.9750 Lamp Flux:15686.2x1 lm		
NAME: CT5-UFO100W	TYPE:CT5-UFO100W	WEIGHT:
DIM.: 300	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 153.04 lm/W			
MODEL		I _{max} (cd)	6593	S/MH(C0/180)	1.34
NOMINAL POWER(W)	104	LOR(%)	100.0	S/MH(C90/270)	1.36
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	15686	η UP,DN(C0-180)	1.8,46.9
NOMINAL FLUX(lm)	15686.2	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.8,49.5
LAMPS INSIDE	1	η up(%)	3.6	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	219.8	η down(%)	96.4	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-23

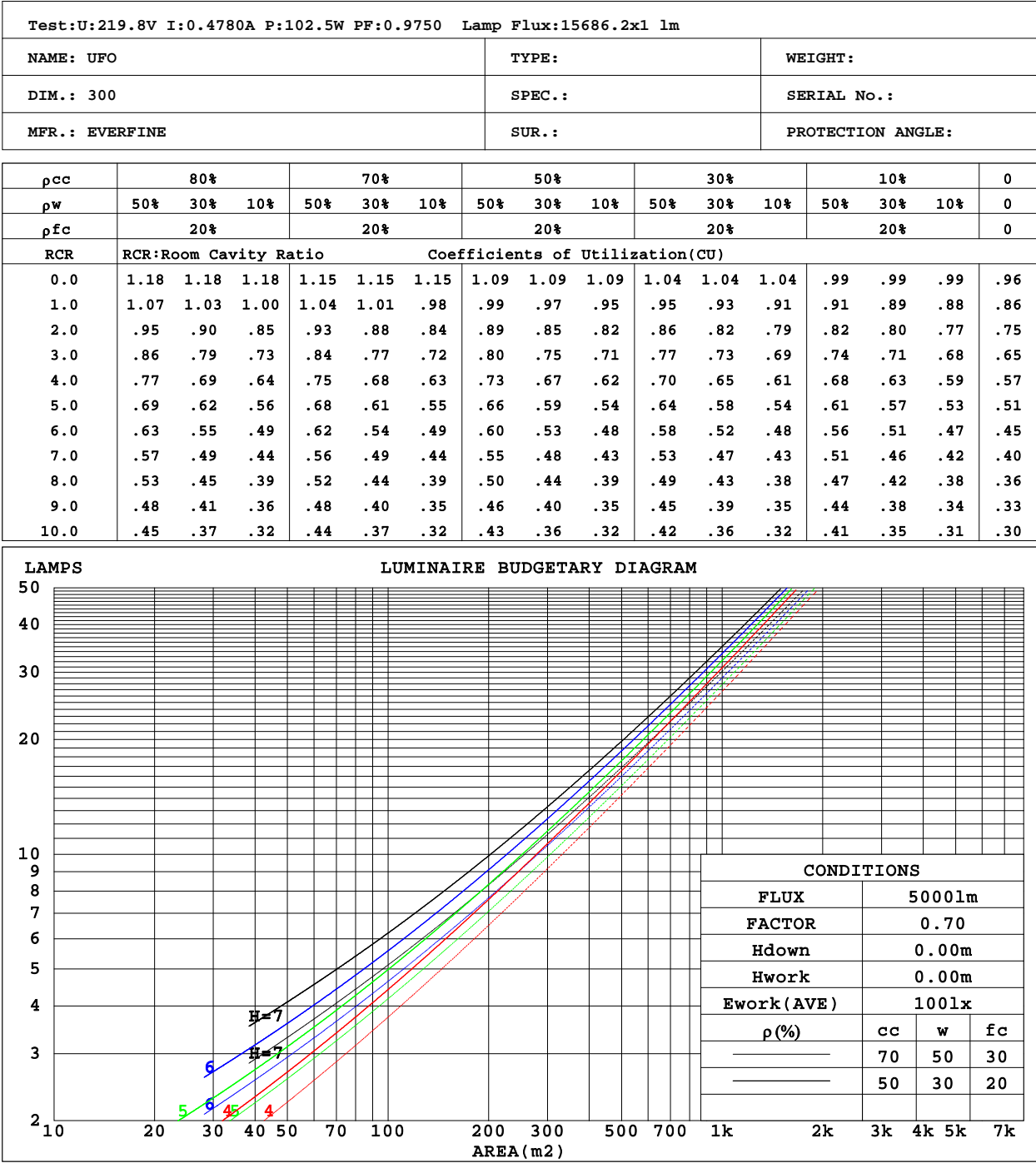
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:5.500m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	\$lum,lamp
10	6492	6509	6564	6477					0- 10	624.1	624.1	3.98,3.98
20	6279	6355	6426	6297					10- 20	1821	2445	15.6,15.6
30	5917	6014	6130	5940					20- 30	2860	5305	33.8,33.8
40	5150	5224	5484	5120					30- 40	3557	8862	56.5,56.5
50	2761	3356	3834	3127					40- 50	3378	12240	78,78
60	921.4	1386	1540	1230					50- 60	1920	14159	90.3,90.3
70	256.0	424.2	494.2	366.0					60- 70	745.8	14905	95,95
80	14.87	35.17	77.48	25.82					70- 80	192.3	15098	96.2,96.2
90	15.24	13.81	13.15	15.25					80- 90	18.27	15116	96.4,96.4
100	24.82	21.72	23.51	27.52					90-100	20.39	15136	96.5,96.5
110	42.92	37.71	43.10	49.17					100-110	35.01	15171	96.7,96.7
120	76.49	66.97	70.06	78.30					110-120	56.16	15227	97.1,97.1
130	126.6	113.6	108.6	119.1					120-130	83.91	15311	97.6,97.6
140	166.0	157.8	150.3	155.4					130-140	106.9	15418	98.3,98.3
150	189.2	183.1	172.1	174.1					140-150	106.3	15525	99,99
160	202.5	197.3	183.6	185.5					150-160	86.12	15611	99.5,99.5
170	209.9	206.1	195.1	195.6					160-170	55.54	15666	99.9,99.9
180	221.9	221.1	223.0	220.1					170-180	19.95	15686	100,100
DEG	LUMINOUS INTENSITY:cd									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:2024-08-23

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269

Humidity:65.0%

Test Distance:5.500m [K=1.0000]

Remarks:

WEC AND CCEC

Test:U:219.8V I:0.4780A P:102.5W PF:0.9750 Lamp Flux:15686.2x1 lm		
NAME: UFO	TYPE:	WEIGHT:
DIM.: 300	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	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	.240	.136	.043	.232	.132	.042	.217	.124	.040	.203	.117	.038	.190	.110	.036	
2.0	.235	.129	.039	.228	.126	.039	.215	.119	.037	.203	.114	.036	.192	.108	.034	
3.0	.225	.119	.036	.218	.117	.035	.207	.112	.034	.196	.107	.033	.186	.103	.032	
4.0	.213	.111	.033	.207	.108	.032	.197	.104	.031	.187	.101	.030	.178	.097	.030	
5.0	.201	.102	.030	.196	.101	.029	.187	.097	.029	.178	.094	.028	.170	.091	.027	
6.0	.190	.095	.027	.185	.094	.027	.177	.091	.026	.169	.088	.026	.162	.085	.025	
7.0	.179	.089	.025	.175	.087	.025	.168	.085	.024	.161	.082	.024	.154	.080	.024	
8.0	.169	.083	.023	.166	.082	.023	.159	.079	.023	.153	.077	.022	.147	.075	.022	
9.0	.160	.078	.022	.157	.077	.021	.151	.075	.021	.145	.073	.021	.140	.071	.020	
10.0	.152	.073	.020	.149	.072	.020	.143	.070	.020	.138	.069	.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	.218	.218	.218	.186	.186	.186	.127	.127	.127	.073	.073	.073	.023	.023	.023	
1.0	.203	.185	.168	.174	.159	.144	.119	.109	.100	.069	.063	.058	.022	.020	.019	
2.0	.193	.160	.133	.165	.138	.115	.113	.095	.080	.065	.056	.047	.021	.018	.015	
3.0	.184	.142	.109	.158	.123	.094	.108	.085	.066	.063	.050	.039	.020	.016	.013	
4.0	.176	.129	.092	.151	.111	.080	.104	.077	.056	.060	.045	.033	.019	.015	.011	
5.0	.169	.118	.080	.145	.102	.070	.100	.071	.049	.058	.042	.029	.019	.014	.010	
6.0	.163	.109	.071	.140	.095	.062	.096	.066	.044	.056	.039	.026	.018	.013	.009	
7.0	.157	.102	.065	.135	.089	.056	.093	.062	.040	.054	.037	.024	.017	.012	.008	
8.0	.151	.097	.059	.130	.084	.052	.090	.059	.037	.052	.035	.022	.017	.011	.007	
9.0	.146	.092	.056	.125	.080	.048	.087	.056	.034	.051	.033	.021	.016	.011	.007	
10.0	.140	.088	.052	.121	.076	.046	.084	.054	.033	.049	.032	.019	.016	.010	.006	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-08-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:5.500m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:219.8V I:0.4780A P:102.5W PF:0.9750 Lamp Flux:15686.2x1 lm											
NAME: UFO					TYPE:			WEIGHT:			
DIM.: 300					SPEC.:			SERIAL No.:			
MFR.: EVERFINE					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	24.2	25.5	24.5	25.7	26.0	24.9	26.2	25.2	26.4	26.7	
	3H	24.2	25.3	24.5	25.6	25.9	25.0	26.2	25.3	26.4	26.7
	4H	24.1	25.2	24.4	25.5	25.8	24.9	26.1	25.3	26.4	26.7
	6H	24.0	25.0	24.3	25.3	25.7	24.9	25.9	25.2	26.2	26.6
	8H	23.9	24.9	24.3	25.2	25.6	24.8	25.8	25.2	26.1	26.5
	12H	23.9	24.8	24.3	25.2	25.5	24.7	25.7	25.1	26.0	26.4
4H	2H	24.2	25.3	24.5	25.6	25.9	24.8	25.9	25.2	26.2	26.5
	3H	24.2	25.2	24.6	25.5	25.9	25.0	25.9	25.4	26.3	26.7
	4H	24.2	25.0	24.6	25.4	25.8	25.0	25.8	25.4	26.2	26.6
	6H	24.1	24.8	24.5	25.2	25.7	24.9	25.6	25.3	26.1	26.5
	8H	24.0	24.7	24.5	25.1	25.6	24.9	25.5	25.3	26.0	26.4
	12H	24.0	24.6	24.4	25.0	25.5	24.8	25.4	25.3	25.9	26.3
8H	4H	24.1	24.7	24.5	25.2	25.6	24.9	25.5	25.3	26.0	26.4
	6H	24.0	24.5	24.5	25.0	25.5	24.8	25.3	25.3	25.8	26.3
	8H	23.9	24.4	24.4	24.9	25.4	24.7	25.2	25.2	25.7	26.2
	12H	23.9	24.3	24.4	24.8	25.4	24.7	25.1	25.2	25.6	26.2
12H	4H	24.0	24.6	24.5	25.1	25.6	24.8	25.4	25.3	25.9	26.4
	6H	23.9	24.4	24.4	24.9	25.4	24.7	25.2	25.2	25.7	26.2
	8H	23.9	24.3	24.4	24.8	25.3	24.7	25.1	25.2	25.6	26.2
Variations with the observer position at spacings:											
S = 1.0H	+ 1.6 / - 2.4					+ 1.2 / - 1.4					
1.5H	+ 1.0 / - 1.4					+ 0.8 / - 1.1					
2.0H	+ 3.2 / - 3.4					+ 2.6 / - 3.3					

CIE Pub.117 Corrected 15686 lm Total Lamp Luminous Flux.(8log(F/F0) = 9.6)

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-08-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:5.500m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:219.8V I:0.4780A P:102.5W PF:0.9750 Lamp Flux:15686.2x1 lm		
NAME: UFO	TYPE:	WEIGHT:
DIM.: 300	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

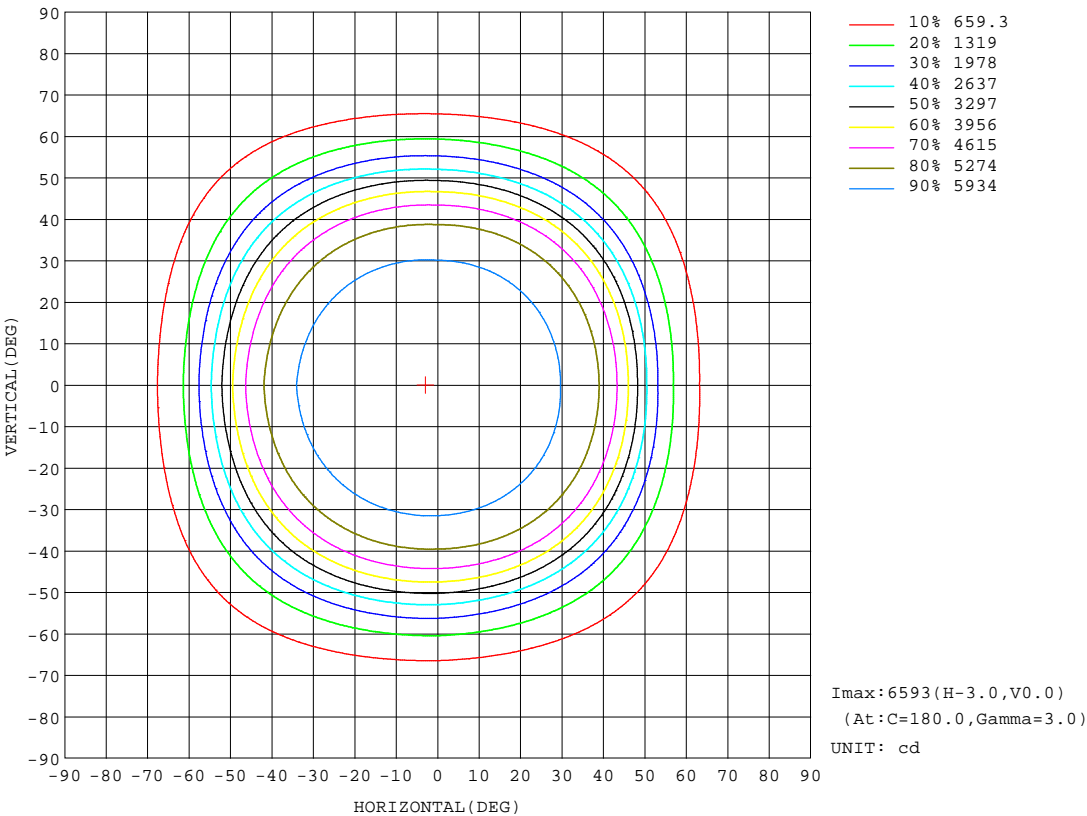
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	64	53	47	63	53	47	62	53	47	41
0.80	74	64	58	73	64	58	71	63	57	51
1.00	83	74	68	82	73	67	79	73	66	60
1.25	90	81	75	88	80	75	85	79	74	67
1.50	94	86	81	92	85	80	89	83	79	72
2.00	100	93	88	98	92	87	94	89	85	78
2.50	103	97	92	101	95	91	97	92	88	80
3.00	105	100	96	103	98	94	99	95	92	83
4.00	109	104	100	106	102	99	101	98	95	86
5.00	110	106	103	108	104	101	103	100	98	88
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:2024-08-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:5.500m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

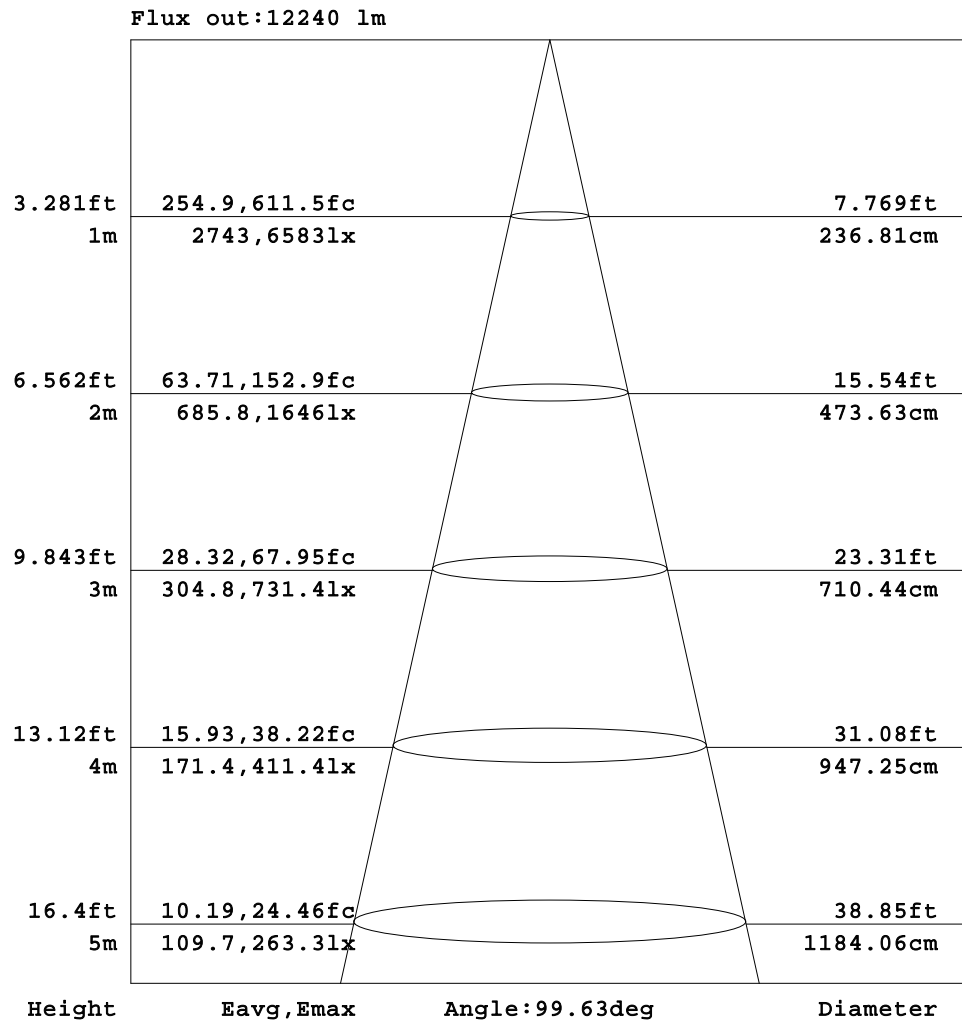
Test:U:219.8V I:0.4780A P:102.5W PF:0.9750 Lamp Flux:15686.2x1 lm		
NAME: UFO	TYPE:	WEIGHT:
DIM.: 300	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



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: 5.500m [K=1.0000]
Test Date: 2024-08-23	Remarks:

AAI Figure

Test:U:219.8V I:0.4780A P:102.5W PF:0.9750 Lamp Flux:15686.2x1 lm		
NAME: UFO	TYPE:	WEIGHT:
DIM.: 300	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



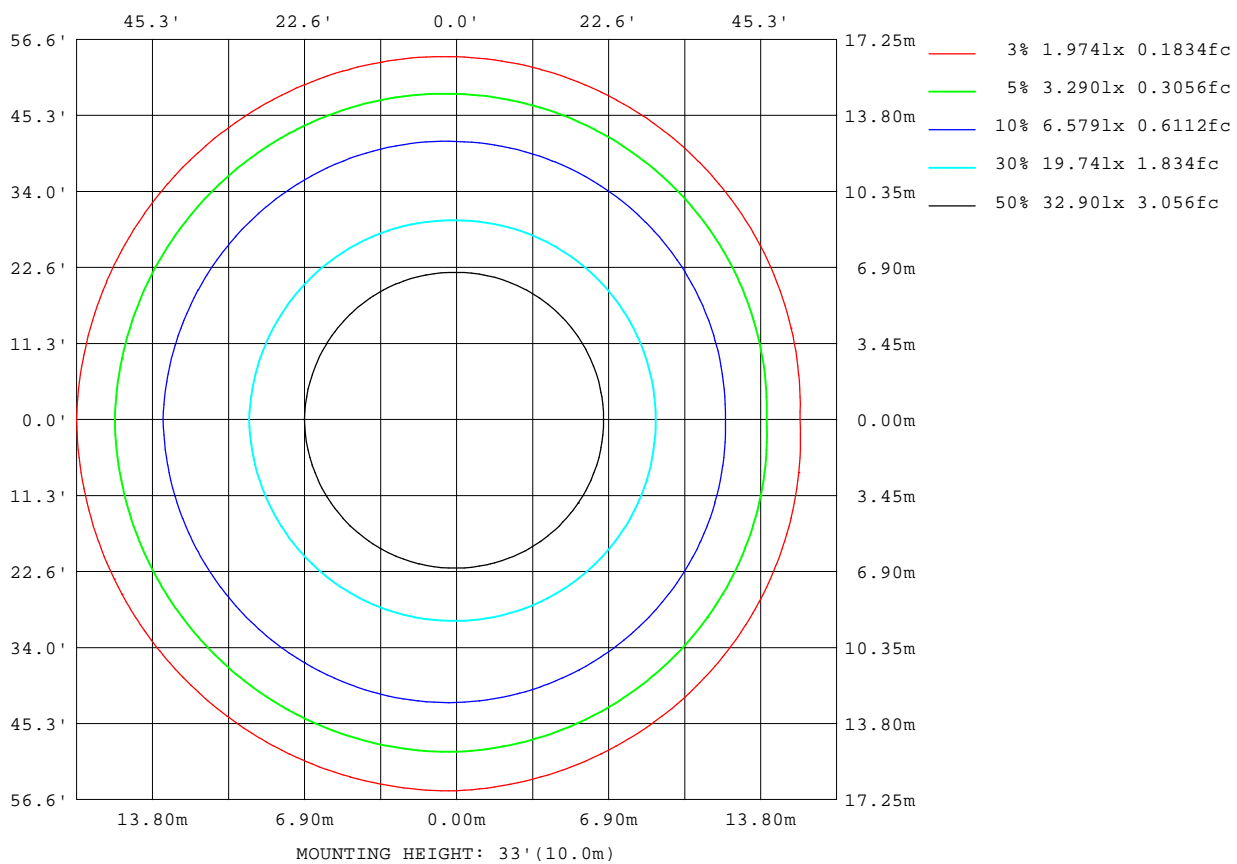
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:5.500m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

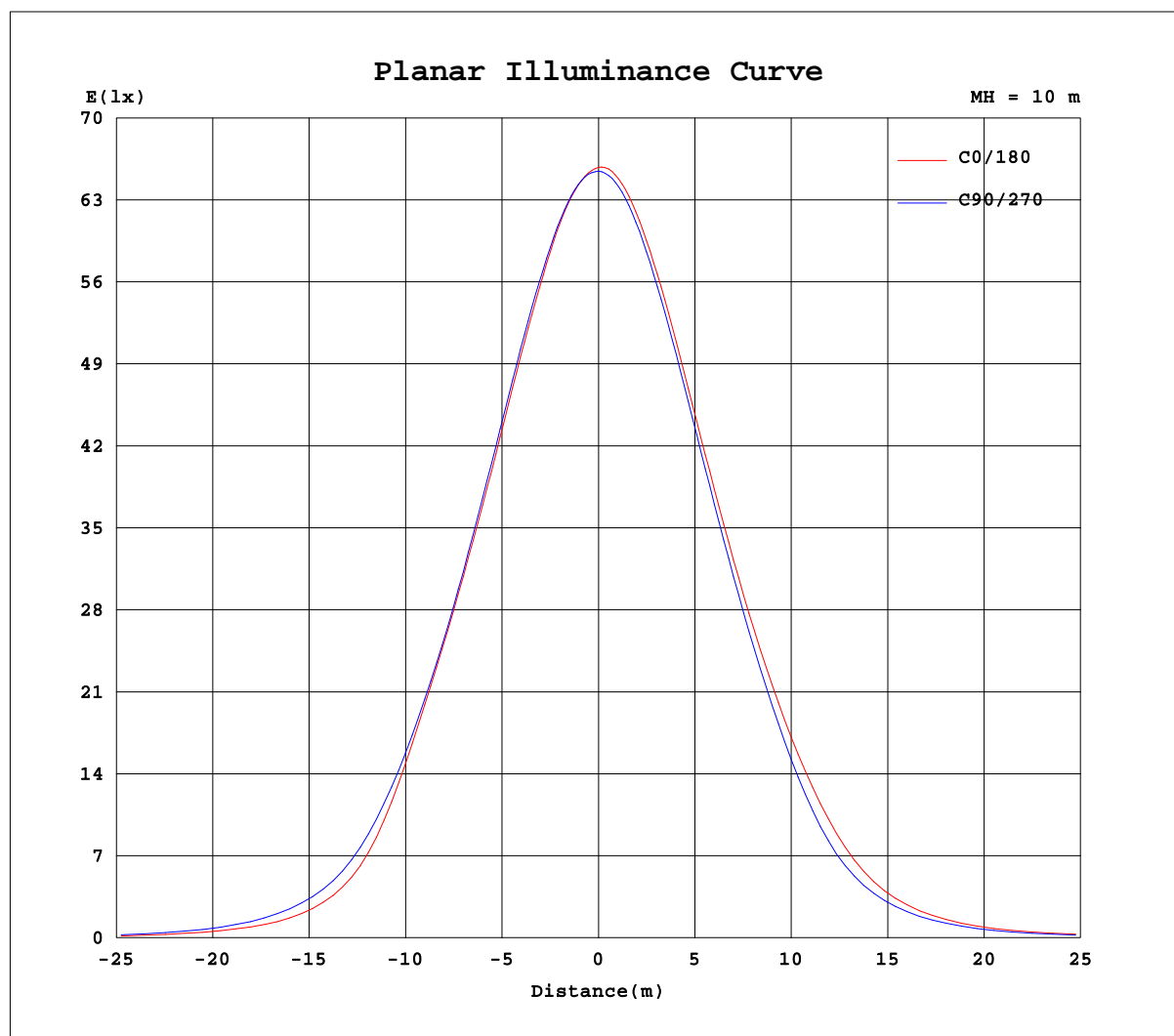
Test:U:219.8V I:0.4780A P:102.5W PF:0.9750 Lamp Flux:15686.2x1 lm		
NAME: UFO	TYPE:	WEIGHT:
DIM.: 300	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-08-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 5.500m [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: 2024-08-23

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 5.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.8V I:0.4780A P:102.5W PF:0.9750 Lamp Flux:15686.2x1 lm		
NAME: UFO	TYPE:	WEIGHT:
DIM.: 300	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

Table--1															UNIT: cd				
C(DEG) γ (DEG)	0	90	180	270															
0	6579	6547	6579	6547															
5	6543	6543	6592	6530															
10	6492	6509	6564	6477															
15	6395	6442	6507	6396															
20	6279	6355	6426	6297															
25	6128	6216	6302	6151															
30	5917	6014	6130	5940															
35	5624	5699	5879	5620															
40	5150	5224	5484	5120															
45	4221	4481	4849	4313															
50	2761	3356	3834	3127															
55	1616	2213	2551	2026															
60	921	1386	1540	1230															
65	531	782	874	693															
70	256	424	494	366															
75	86.7	202	233	164															
80	14.9	35.2	77.5	25.8															
85	12.8	11.9	14.9	11.9															
90	15.2	13.8	13.1	15.3															
95	19.0	16.8	17.4	20.3															
100	24.8	21.7	23.5	27.5															
105	32.9	28.8	32.1	37.5															
110	42.9	37.7	43.1	49.2															
115	57.1	50.1	55.2	62.0															
120	76.5	67.0	70.1	78.3															
125	101	88.5	87.6	97.4															
130	127	114	109	119															
135	149	138	131	139															
140	166	158	150	155															
145	179	172	164	167															
150	189	183	172	174															
155	197	191	178	180															
160	202	197	184	185															
165	206	202	188	189															
170	210	206	195	196															
175	216	213	211	210															
180	222	221	223	220															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-23

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:5.500m [K=1.0000]
Remarks: