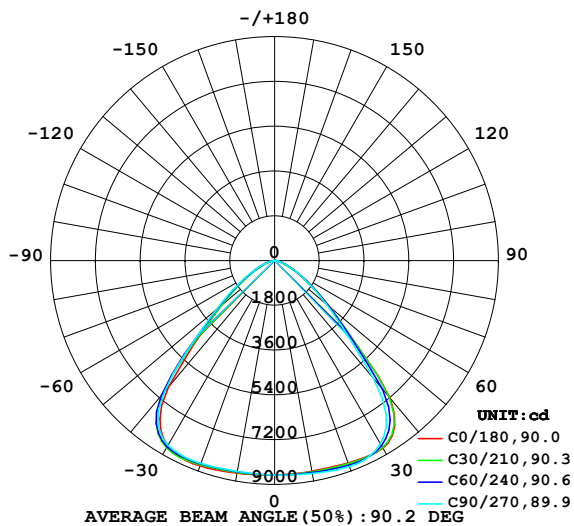


LUMINAIRE PHOTOMETRIC TEST REPORT

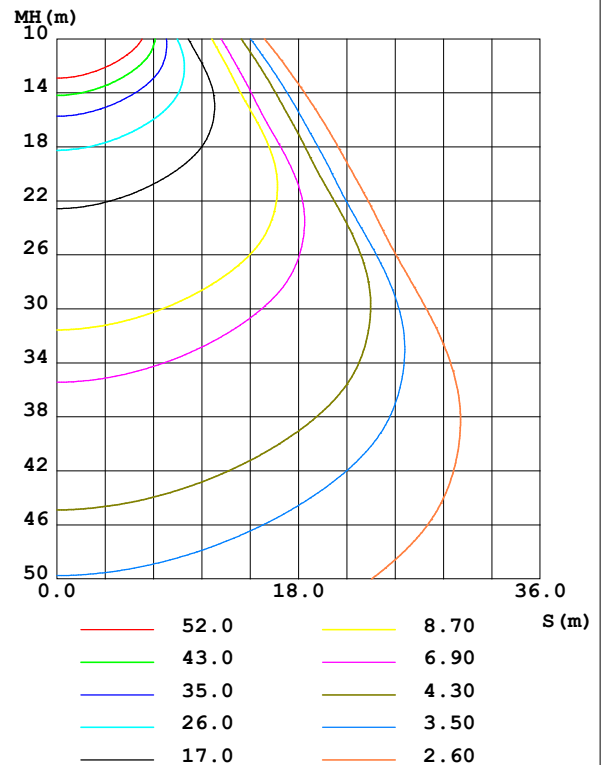
Test:U:219.6V I:0.4702A P:100.6W PF:0.9740 Freq:50.00Hz Lamp Flux:18622.4x1 lm		
NAME: UFO 100W 6000K 90D	DIM.:	SERIAL No.:
SPEC.: 100W 6000K 90D		
MFR.: MOORE		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 185.12 lm/W
MODEL	HB100W-97601C-08	I _{max} (cd)	8820	S/MH (C0/180)	1.29	
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.33	
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	18622	η UP, DN (C0-180)	0.0,49.3	
NOMINAL FLUX (lm)	18622.4	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0,50.7	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE (V)	219.5	η down (%)	100.0	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: JASON
Test Date: 2024-01-25

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.479
Humidity: 65.0%
Test Distance: 9.698m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	8594	8630	8686	8704	8678	8629	8607	8597	0- 10	823.6	823.6	4.42,4.42
20	8647	8705	8804	8814	8783	8711	8676	8659	10- 20	2461	3285	17.6,17.6
30	8710	8638	8502	8429	8591	8678	8577	8590	20- 30	4027	7312	39.3,39.3
40	7224	7054	6199	6057	6653	7066	6888	6862	30- 40	4970	12282	66,66
50	2877	2859	2693	2791	2789	2826	3044	3046	40- 50	3478	15760	84.6,84.6
60	1265	1198	1204	1197	1214	1180	1335	1305	50- 60	1746	17506	94,94
70	484.3	463.7	470.9	467.7	462.3	457.8	530.4	505.1	60- 70	796.5	18302	98.3,98.3
80	103.1	97.77	106.5	92.30	98.72	108.4	137.6	117.2	70- 80	285.7	18588	99.8,99.8
90	6.275	6.443	6.791	6.799	4.913	4.932	4.973	5.122	80- 90	34.38	18622	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 14654 lm

%lum = 78.7%

%lamp = 78.7%

Conical surface Flux(130deg): 18063 lm

%lum = 97.0%

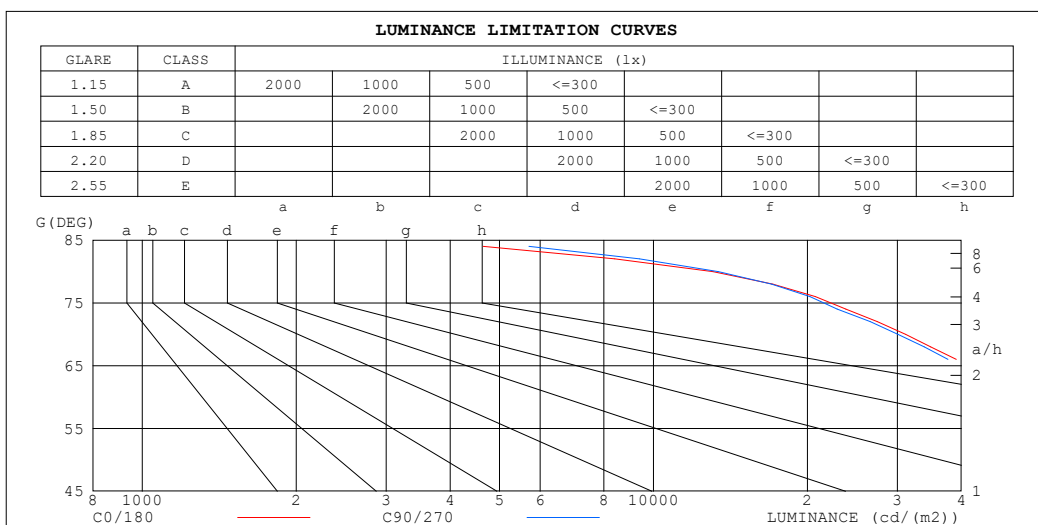
%lamp = 97.0%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:JASON
 Test Date:2024-01-25

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.479
 Humidity:65.0%
 Test Distance:9.698m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:219.6V I:0.4702A P:100.6W PF:0.9740 Freq:50.00Hz Lamp Flux:18622.4x1 lm		
NAME: UFO 100W 6000K 90D	DIM.:	SERIAL No.:
SPEC.: 100W 6000K 90D		
MFR.: MOORE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5570	6843
80	13067	13403
75	25343	24368
70	31159	30096
65	45545	43545
60	55686	52647
55	80010	76161
50	98489	91588
45	150324	133723

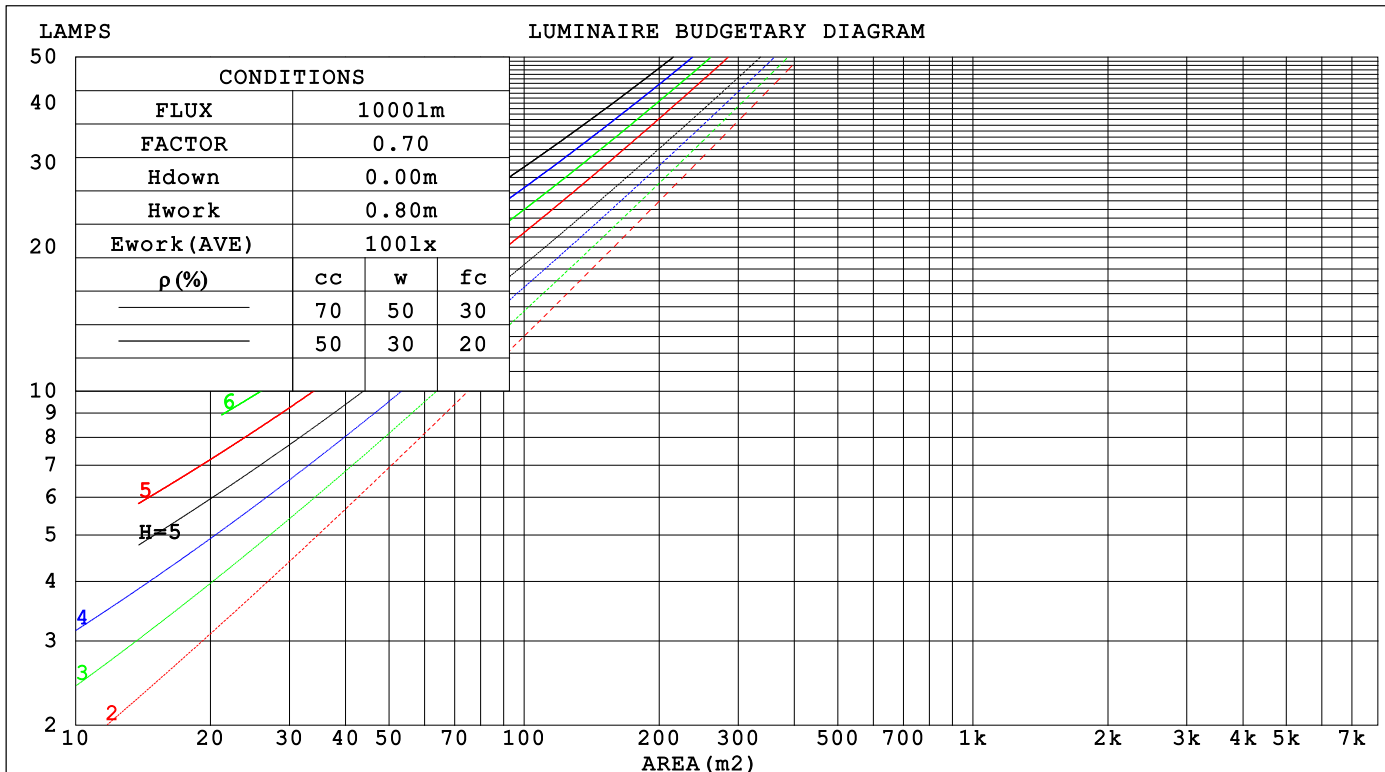
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: JASON
Test Date: 2024-01-25

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.479
Humidity: 65.0%
Test Distance: 9.698m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:219.6V I:0.4702A P:100.6W PF:0.9740 Freq:50.00Hz Lamp Flux:18622.4x1 lm		
NAME: UFO 100W 6000K 90D	DIM.:	SERIAL No.:
SPEC.: 100W 6000K 90D		
MFR.: MOORE		

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 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	1.00
1.0	1.08	1.05	1.02	1.06	1.03	1.00	1.02	.99	.97	.98	.96	.94	.94	.93	.91	.89
2.0	.97	.92	.87	.95	.91	.86	.92	.88	.84	.89	.86	.83	.86	.83	.81	.79
3.0	.88	.81	.76	.86	.80	.75	.83	.78	.74	.81	.76	.73	.78	.75	.72	.70
4.0	.79	.72	.67	.78	.71	.66	.76	.70	.65	.74	.69	.64	.72	.67	.64	.62
5.0	.72	.65	.59	.71	.64	.59	.69	.63	.58	.67	.62	.57	.66	.61	.57	.55
6.0	.66	.58	.53	.65	.58	.52	.63	.57	.52	.62	.56	.51	.60	.55	.51	.49
7.0	.60	.53	.47	.60	.52	.47	.58	.52	.47	.57	.51	.46	.55	.50	.46	.44
8.0	.55	.48	.43	.55	.48	.43	.54	.47	.42	.52	.46	.42	.51	.46	.42	.40
9.0	.51	.44	.39	.51	.43	.39	.49	.43	.38	.48	.43	.38	.48	.42	.38	.36
10.0	.47	.40	.35	.47	.40	.35	.46	.40	.35	.45	.39	.35	.44	.39	.35	.33



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:JASON
Test Date:2024-01-25

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.479
Humidity:65.0%
Test Distance:9.698m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:219.6V I:0.4702A P:100.6W PF:0.9740 Freq:50.00Hz		
Lamp Flux:18622.4x1 lm		
NAME: UFO 100W 6000K 90D	DIM.:	SERIAL No.:
SPEC.: 100W 6000K 90D		
MFR.: MOORE		

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	.232	.132	.042	.225	.129	.041	.213	.122	.039	.201	.116	.037	.190	.110	.035		
2.0	.227	.124	.038	.221	.122	.037	.210	.117	.036	.199	.112	.035	.190	.107	.034		
3.0	.216	.115	.034	.211	.113	.034	.202	.109	.033	.193	.106	.032	.184	.102	.032		
4.0	.205	.107	.031	.201	.105	.031	.192	.102	.030	.184	.099	.030	.177	.096	.029		
5.0	.194	.099	.029	.190	.098	.028	.183	.095	.028	.175	.093	.028	.169	.090	.027		
6.0	.184	.092	.026	.180	.091	.026	.173	.089	.026	.167	.087	.026	.161	.085	.025		
7.0	.174	.086	.024	.171	.085	.024	.165	.083	.024	.159	.081	.024	.154	.080	.023		
8.0	.165	.080	.023	.162	.080	.023	.156	.078	.022	.151	.077	.022	.146	.075	.022		
9.0	.156	.076	.021	.154	.075	.021	.149	.074	.021	.144	.072	.021	.140	.071	.021		
10.0	.148	.071	.020	.146	.071	.020	.142	.069	.020	.138	.068	.019	.134	.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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.175	.157	.140	.150	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016		
2.0	.164	.132	.106	.140	.114	.092	.096	.079	.064	.055	.046	.037	.018	.015	.012		
3.0	.154	.114	.082	.132	.098	.071	.091	.068	.050	.052	.040	.029	.017	.013	.010		
4.0	.146	.100	.065	.125	.086	.056	.086	.060	.040	.050	.035	.023	.016	.011	.008		
5.0	.139	.089	.053	.119	.077	.046	.082	.054	.032	.048	.032	.019	.015	.010	.006		
6.0	.132	.080	.043	.114	.070	.038	.078	.049	.027	.045	.029	.016	.015	.009	.005		
7.0	.126	.073	.037	.108	.064	.032	.075	.045	.023	.043	.026	.013	.014	.009	.004		
8.0	.120	.068	.031	.104	.059	.027	.072	.041	.019	.042	.024	.012	.013	.008	.004		
9.0	.115	.063	.027	.099	.054	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003		
10.0	.110	.058	.024	.095	.051	.021	.066	.036	.015	.038	.021	.009	.012	.007	.003		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:JASON
Test Date:2024-01-25

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.479
Humidity:65.0%
Test Distance:9.698m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:219.6V I:0.4702A P:100.6W PF:0.9740 Freq:50.00Hz Lamp Flux:18622.4x1 lm										
NAME: UFO 100W 6000K 90D					DIM.:			SERIAL No.:		
SPEC.: 100W 6000K 90D										
MFR.: MOORE										
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	17.3	18.6	17.5	18.7	18.9	17.0	18.2	17.2	18.4	18.6
3H	17.4	18.6	17.7	18.8	19.0	17.1	18.3	17.4	18.5	18.7
4H	17.4	18.6	17.7	18.8	19.0	17.1	18.2	17.4	18.5	18.7
6H	17.4	18.4	17.7	18.7	19.0	17.1	18.1	17.4	18.4	18.6
8H	17.4	18.4	17.7	18.6	18.9	17.1	18.0	17.4	18.3	18.6
12H	17.3	18.3	17.7	18.5	18.8	17.0	18.0	17.3	18.2	18.5
4H 2H	17.3	18.4	17.6	18.6	18.8	17.0	18.1	17.3	18.3	18.5
3H	17.5	18.4	17.8	18.7	19.0	17.2	18.2	17.6	18.5	18.7
4H	17.5	18.4	17.9	18.7	19.0	17.3	18.1	17.6	18.5	18.8
6H	17.5	18.3	17.9	18.6	19.0	17.3	18.0	17.7	18.4	18.7
8H	17.5	18.2	17.9	18.6	18.9	17.2	17.9	17.6	18.3	18.7
12H	17.5	18.1	17.9	18.5	18.9	17.2	17.8	17.6	18.2	18.6
8H 4H	17.5	18.2	17.9	18.5	18.9	17.2	17.9	17.6	18.3	18.7
6H	17.5	18.1	17.9	18.5	18.9	17.2	17.8	17.7	18.2	18.6
8H	17.5	18.0	17.9	18.4	18.8	17.2	17.7	17.7	18.1	18.6
12H	17.4	17.8	17.9	18.3	18.8	17.2	17.6	17.7	18.1	18.5
12H 4H	17.4	18.1	17.9	18.5	18.9	17.2	17.8	17.6	18.2	18.6
6H	17.5	18.0	17.9	18.4	18.8	17.2	17.7	17.7	18.1	18.6
8H	17.4	17.9	17.9	18.3	18.8	17.2	17.6	17.7	18.1	18.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.6 / - 2.4					+ 1.5 / - 2.2				
1.5H	+ 2.2 / - 1.8					+ 1.9 / - 1.4				
2.0H	+ 2.8 / - 2.7					+ 2.5 / - 2.2				

CIE Pub.117, 18622 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.2)
Area: 0.0457 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:JASON
Test Date:2024-01-25

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.479
Humidity:65.0%
Test Distance:9.698m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:219.6V I:0.4702A P:100.6W PF:0.9740 Freq:50.00Hz Lamp Flux:18622.4x1 lm		
NAME: UFO 100W 6000K 90D	DIM.:	SERIAL No.:
SPEC.: 100W 6000K 90D		
MFR.: MOORE		

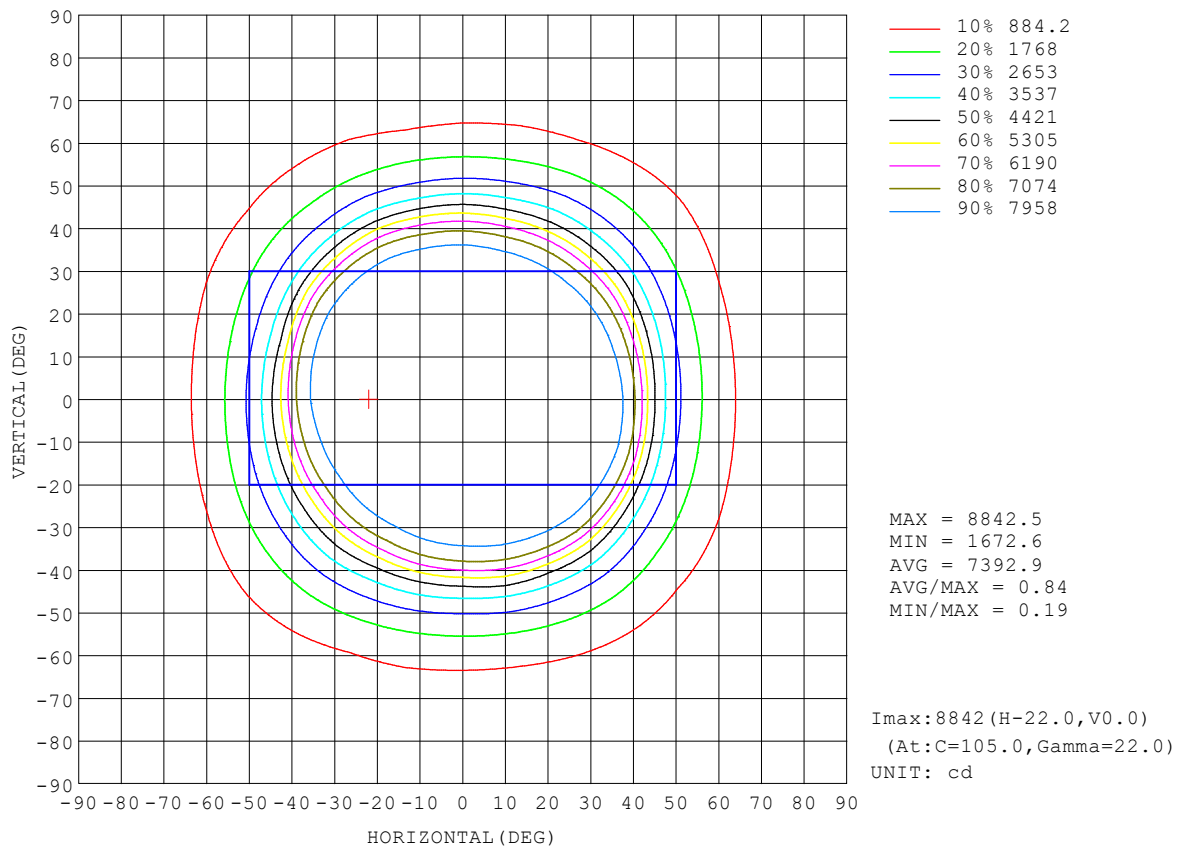
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	61	55	69	60	55	68	60	55	49
0.80	80	71	65	79	70	65	77	70	64	59
1.00	87	79	73	86	78	73	84	79	73	67
1.25	93	86	80	92	85	80	90	84	79	73
1.50	97	90	85	96	89	85	93	88	84	78
2.00	103	96	92	101	95	91	98	93	90	83
2.50	105	100	95	103	98	94	100	96	92	86
3.00	108	103	99	106	101	98	102	98	95	88
4.00	110	106	103	108	105	102	104	101	99	91
5.00	112	109	106	110	107	104	106	103	101	93
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: JASON
Test Date: 2024-01-25

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.479
Humidity: 65.0%
Test Distance: 9.698m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:219.6V I:0.4702A P:100.6W PF:0.9740 Freq:50.00Hz Lamp Flux:18622.4x1 lm		
NAME: UFO 100W 6000K 90D	DIM.:	SERIAL No.:
SPEC.: 100W 6000K 90D		
MFR.: MOORE		

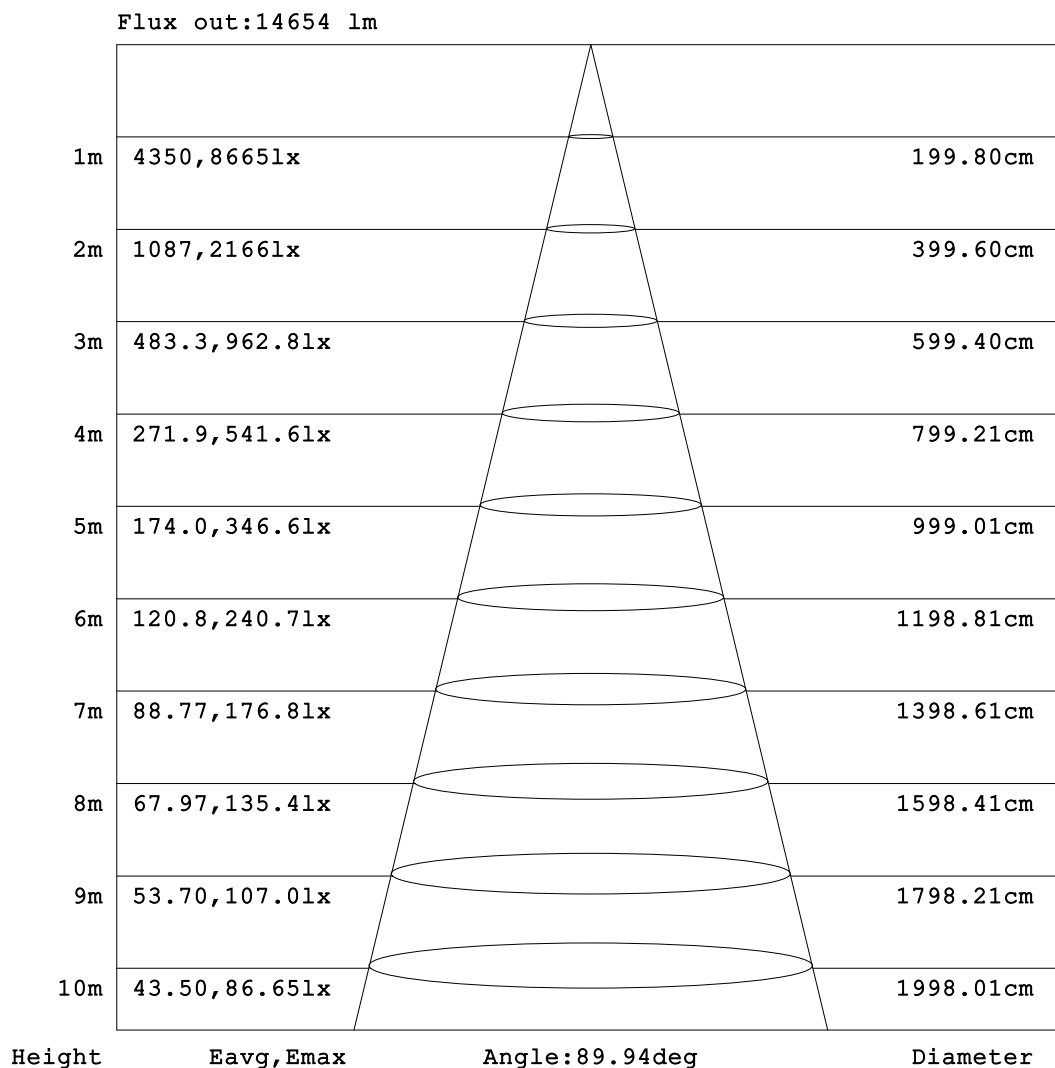


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: JASON
Test Date: 2024-01-25

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.479
Humidity: 65.0%
Test Distance: 9.698m [K=1.0000]
Remarks:

AAI Figure

Test:U:219.6V I:0.4702A P:100.6W PF:0.9740 Freq:50.00Hz Lamp Flux:18622.4x1 lm		
NAME: UFO 100W 6000K 90D	DIM.:	SERIAL No.:
SPEC.: 100W 6000K 90D		
MFR.: MOORE		



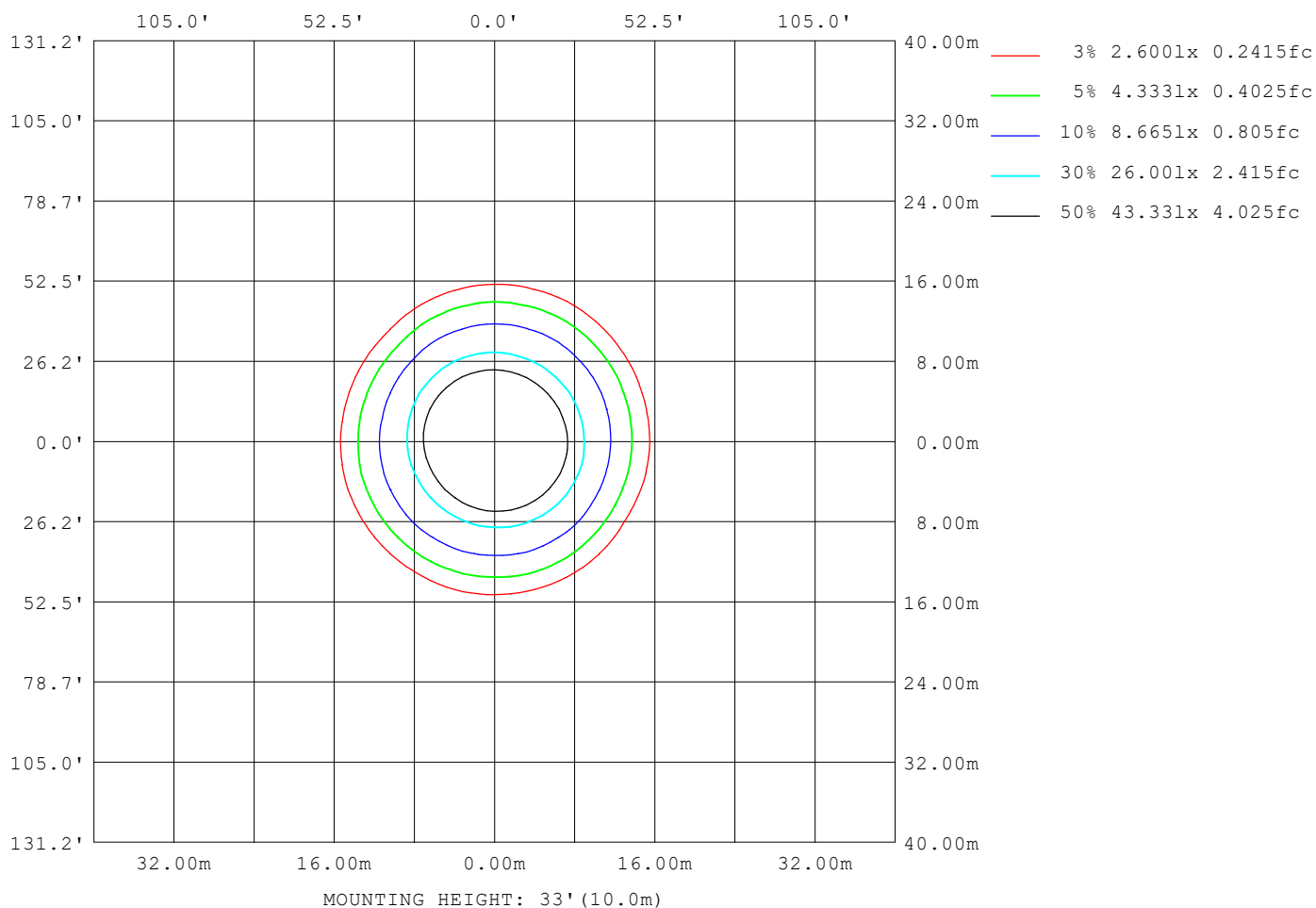
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: JASON
Test Date: 2024-01-25

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.479
Humidity: 65.0%
Test Distance: 9.698m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:219.6V I:0.4702A P:100.6W PF:0.9740 Freq:50.00Hz Lamp Flux:18622.4x1 lm		
NAME: UFO 100W 6000K 90D	DIM.:	SERIAL No.:
SPEC.: 100W 6000K 90D		
MFR.: MOORE		



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:JASON
Test Date:2024-01-25

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.479
Humidity:65.0%
Test Distance:9.698m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:219.6V I:0.4702A P:100.6W PF:0.9740 Freq:50.00Hz Lamp Flux:18622.4x1 lm		
NAME: UFO 100W 6000K 90D	DIM.:	SERIAL No.:
SPEC.: 100W 6000K 90D		
MFR.: MOORE		

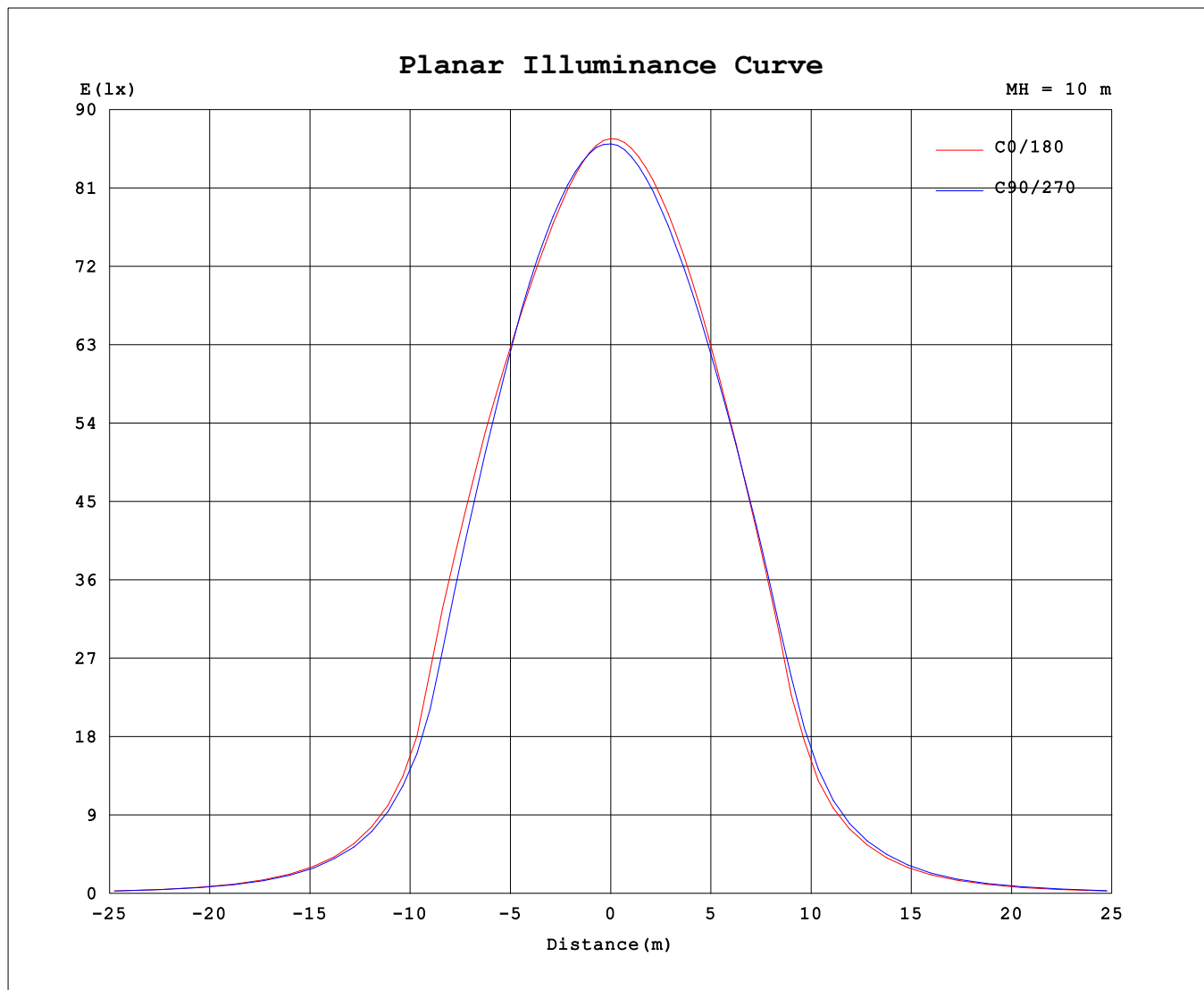
AvgL	cd/m2
L_0~180 (65) av	40531
L_0~180 (75) av	21609
L_0~180 (85) av	2991
L_90~270 (65) av	42194
L_90~270 (75) av	23183
L_90~270 (85) av	5636
L_45 (65) av	39995
L_45 (75) av	22023
L_45 (85) av	3868

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:JASON
Test Date:2024-01-25

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.479
Humidity:65.0%
Test Distance:9.698m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: JASON
 Test Date: 2024-01-25

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.479
 Humidity: 65.0%
 Test Distance: 9.698m [K=1.0000]
 Remarks:

Test:U:219.6V I:0.4702A P:100.6W PF:0.9740 Freq:50.00Hz Lamp Flux:18622.4x1 lm		
NAME: UFO 100W 6000K 90D	DIM.:	SERIAL No.:
SPEC.: 100W 6000K 90D		
MFR.: MOORE		

UNIT: cd

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3℃
Operators: JASON
Test Date: 2024-01-25

```

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.479
Humidity:65.0%
Test Distance:9.698m [K=1.0000]
Remarks:

```

Test:U:219.6V I:0.4702A P:100.6W PF:0.9740 Freq:50.00Hz Lamp Flux:18622.4x1 lm		
NAME: UFO 100W 6000K 90D	DIM.:	SERIAL No.:
SPEC.: 100W 6000K 90D		
MFR.: MOORE		

UNIT: cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.479
Humidity:65.0%
Test Distance:9.698m [K=1.0000]
Remarks:

```