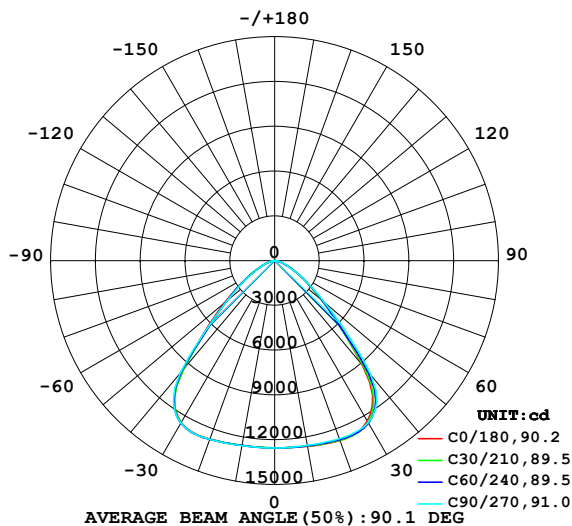


LUMINAIRE PHOTOMETRIC TEST REPORT

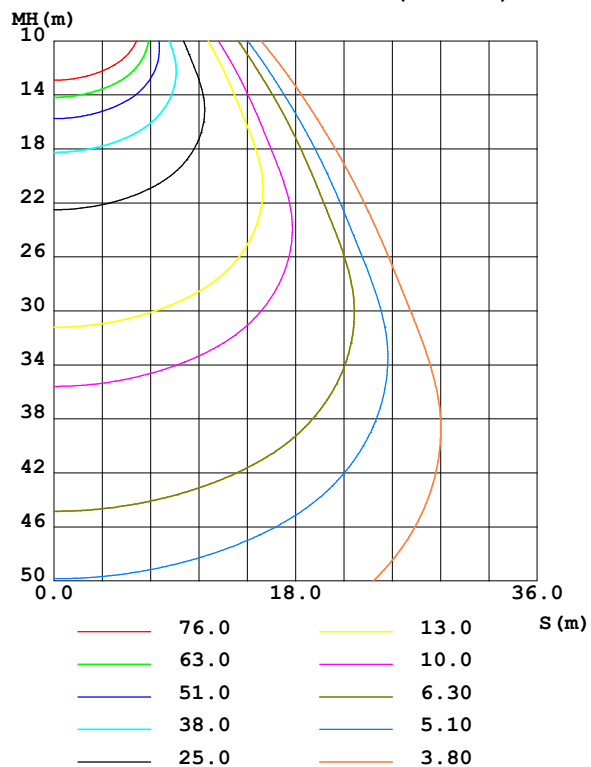
Test:U:219.9V I:0.6709A P:145.4W PF:0.9855 Freq:50.00Hz Lamp Flux:27145.9x1 lm		
NAME: UFO-150W-90D	DIM.:	SERIAL No.:
SPEC.: 150W 6000K 90°		
MFR.: MOORE		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 186.75 lm/W
MODEL	MT-HB150-97571C-08	I _{max} (cd)	12846	S/MH (C0/180)	1.30	
NOMINAL POWER(W)	150	LOR (%)	100.0	S/MH (C90/270)	1.30	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	27146	η UP,DN (C0-180)	0.0,50.3	
NOMINAL FLUX(lm)	27145.9	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,49.7	
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: 2024-01-12

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	1263	1261	1257	1256	1256	1257	1258	1261	0- 10	1199	1199	4.42,4.42
20	1283	1279	1269	1267	1272	1275	1274	1279	10- 20	3591	4790	17.6,17.6
30	1242	1257	1254	1257	1252	1255	1257	1256	20- 30	5888	10678	39.3,39.3
40	913.8	966.2	1004	1018	952.8	954.5	984.6	967.4	30- 40	7215	17894	65.9,65.9
50	418.0	411.4	436.3	427.0	440.4	408.0	409.6	400.1	40- 50	5032	22925	84.5,84.5
60	183.5	188.6	186.9	191.0	186.3	186.7	174.1	176.1	50- 60	2568	25493	93.9,93.9
70	69.73	75.01	71.64	75.13	72.41	72.48	67.78	68.14	60- 70	1179	26672	98.3,98.3
80	15.15	16.47	19.21	15.81	17.36	16.16	16.98	13.50	70- 80	421.8	27094	99.8,99.8
90	1.043	1.067	1.032	1.028	0.8269	0.8363	0.8340	0.8167	80- 90	51.84	27146	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:X10cd									UNIT:lm		

Conical surface Flux(90deg): 21310 lm

%lum = 78.5%

%lamp = 78.5%

Conical surface Flux(130deg): 26319 lm

%lum = 97.0%

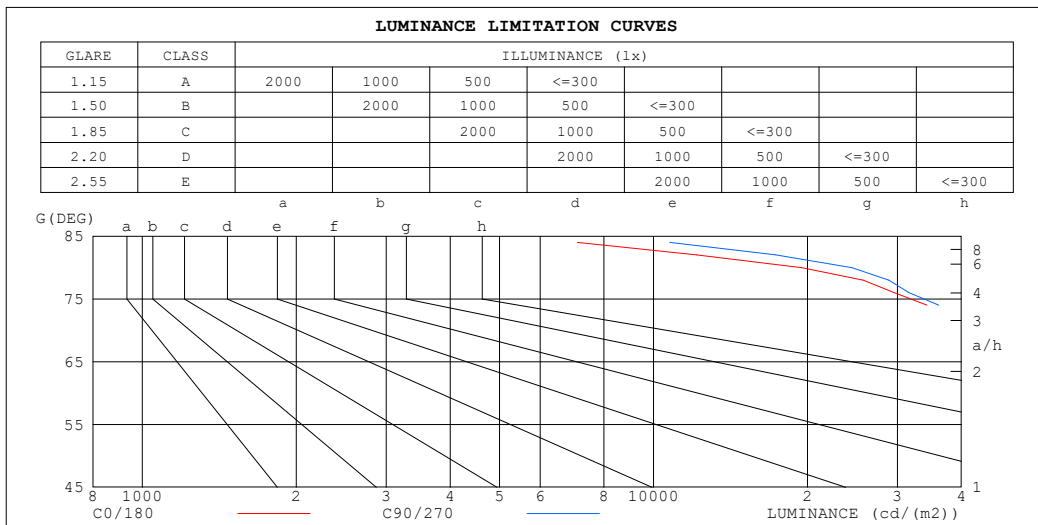
%lamp = 97.0%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:JASON
 Test Date:2024-01-12

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:219.9V I:0.6709A P:145.4W PF:0.9855 Freq:50.00Hz Lamp Flux:27145.9x1 lm		
NAME: UFO-150W-90D	DIM.:	SERIAL No.:
SPEC.: 150W 6000K 90°		
MFR.: MOORE		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	8506	12909
80	19488	24450
75	36487	38487
70	45530	46301
65	65924	66867
60	81938	82626
55	118107	119941
50	145235	150043
45	210553	231272

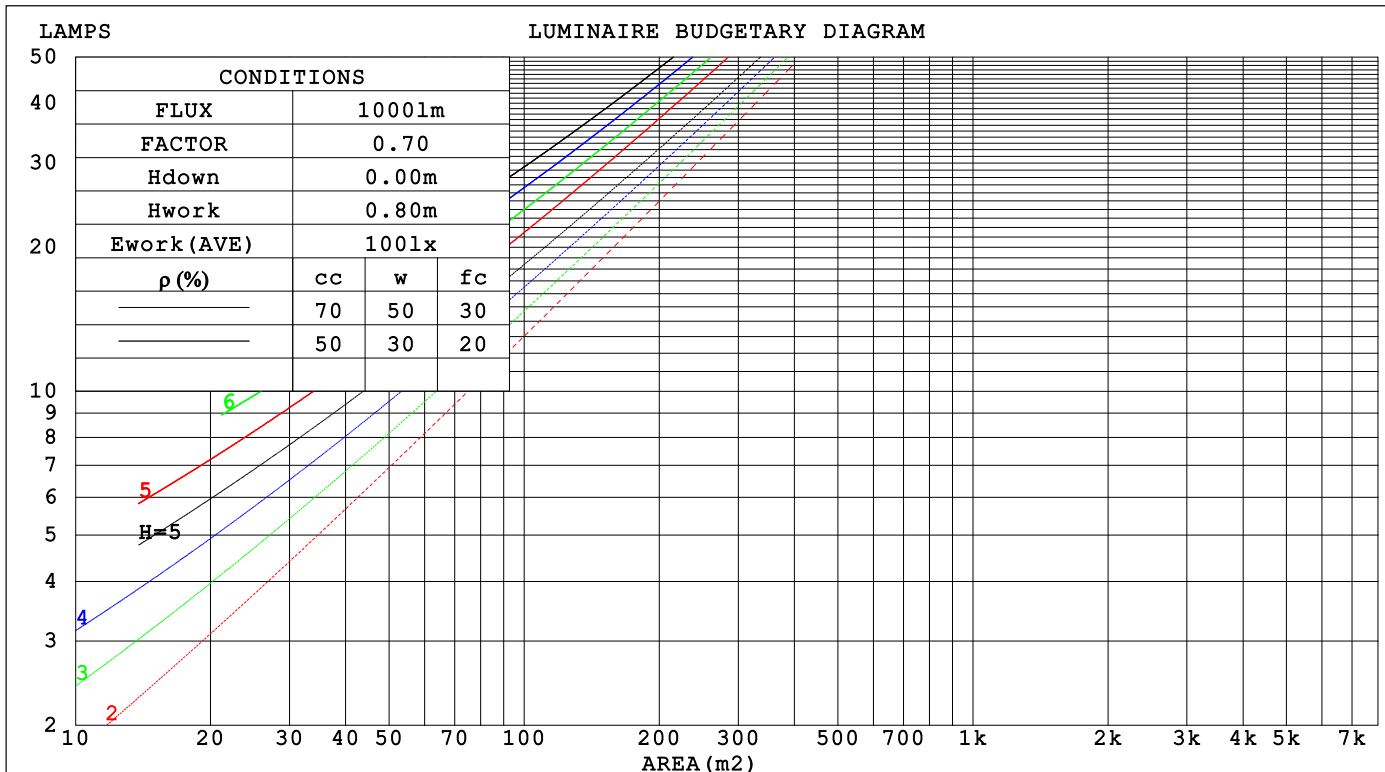
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:JASON
Test Date:2024-01-12

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:219.9V I:0.6709A P:145.4W PF:0.9855 Freq:50.00Hz		
Lamp Flux:27145.9x1 lm		
NAME: UFO-150W-90D	DIM.:	SERIAL No.:
SPEC.: 150W 6000K 90°		
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	.90	.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	.64	.59	.71	.64	.59	.69	.63	.58	.67	.62	.57	.66	.61	.57	.55														
6.0	.66	.58	.52	.65	.58	.52	.63	.57	.52	.62	.56	.51	.60	.55	.51	.49														
7.0	.60	.53	.47	.59	.52	.47	.58	.51	.47	.57	.51	.46	.55	.50	.46	.44														
8.0	.55	.48	.43	.55	.48	.42	.53	.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:2024-01-12

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:219.9V I:0.6709A P:145.4W PF:0.9855 Freq:50.00Hz		
Lamp Flux:27145.9x1 lm		
NAME: UFO-150W-90D	DIM.:	SERIAL No.:
SPEC.: 150W 6000K 90°		
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	.233	.132	.042	.226	.129	.041	.213	.122	.039	.201	.116	.037	.190	.110	.036		
2.0	.227	.124	.038	.221	.122	.038	.210	.117	.036	.200	.112	.035	.190	.108	.034		
3.0	.217	.115	.035	.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	.176	.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	.147	.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:2024-01-12

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:219.9V I:0.6709A P:145.4W PF:0.9855 Freq:50.00Hz										
Lamp Flux:27145.9x1 lm										
NAME: UFO-150W-90D					DIM.:			SERIAL No.:		
SPEC.: 150W 6000K 90°										
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	17.1	18.4	17.4	18.6	18.8	17.3	18.6	17.6	18.8	19.0
3H	17.3	18.4	17.5	18.7	18.9	17.5	18.7	17.8	18.9	19.1
4H	17.3	18.4	17.6	18.6	18.9	17.5	18.6	17.8	18.9	19.1
6H	17.2	18.3	17.5	18.5	18.8	17.5	18.5	17.8	18.8	19.1
8H	17.2	18.2	17.5	18.5	18.7	17.5	18.5	17.8	18.7	19.0
12H	17.1	18.1	17.5	18.4	18.7	17.4	18.4	17.8	18.7	19.0
4H 2H	17.1	18.3	17.4	18.5	18.7	17.3	18.4	17.6	18.7	18.9
3H	17.4	18.4	17.8	18.7	18.9	17.6	18.6	18.0	18.9	19.2
4H	17.5	18.3	17.8	18.6	19.0	17.7	18.6	18.1	18.9	19.2
6H	17.5	18.2	17.9	18.6	18.9	17.7	18.5	18.1	18.8	19.2
8H	17.4	18.1	17.8	18.5	18.9	17.7	18.4	18.1	18.7	19.1
12H	17.4	18.0	17.8	18.4	18.8	17.7	18.3	18.1	18.7	19.1
8H 4H	17.4	18.1	17.8	18.5	18.9	17.7	18.4	18.1	18.7	19.1
6H	17.4	18.0	17.9	18.4	18.8	17.7	18.3	18.1	18.7	19.1
8H	17.4	17.9	17.9	18.3	18.8	17.7	18.2	18.1	18.6	19.0
12H	17.4	17.8	17.9	18.3	18.7	17.6	18.1	18.1	18.5	19.0
12H 4H	17.4	18.0	17.8	18.4	18.8	17.6	18.2	18.0	18.6	19.0
6H	17.4	17.9	17.9	18.3	18.8	17.7	18.2	18.1	18.6	19.0
8H	17.4	17.8	17.9	18.3	18.7	17.6	18.1	18.1	18.5	19.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.3 / - 1.9					+ 1.4 / - 2.0				
1.5H	+ 1.7 / - 1.4					+ 1.7 / - 1.3				
2.0H	+ 2.5 / - 2.1					+ 2.7 / - 2.3				

CIE Pub.117, 27146 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 11.5)
Area: 0.0452 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:JASON
Test Date:2024-01-12

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:219.9V I:0.6709A P:145.4W PF:0.9855 Freq:50.00Hz Lamp Flux:27145.9x1 lm		
NAME: UFO-150W-90D	DIM.:	SERIAL No.:
SPEC.: 150W 6000K 90°		
MFR.: MOORE		

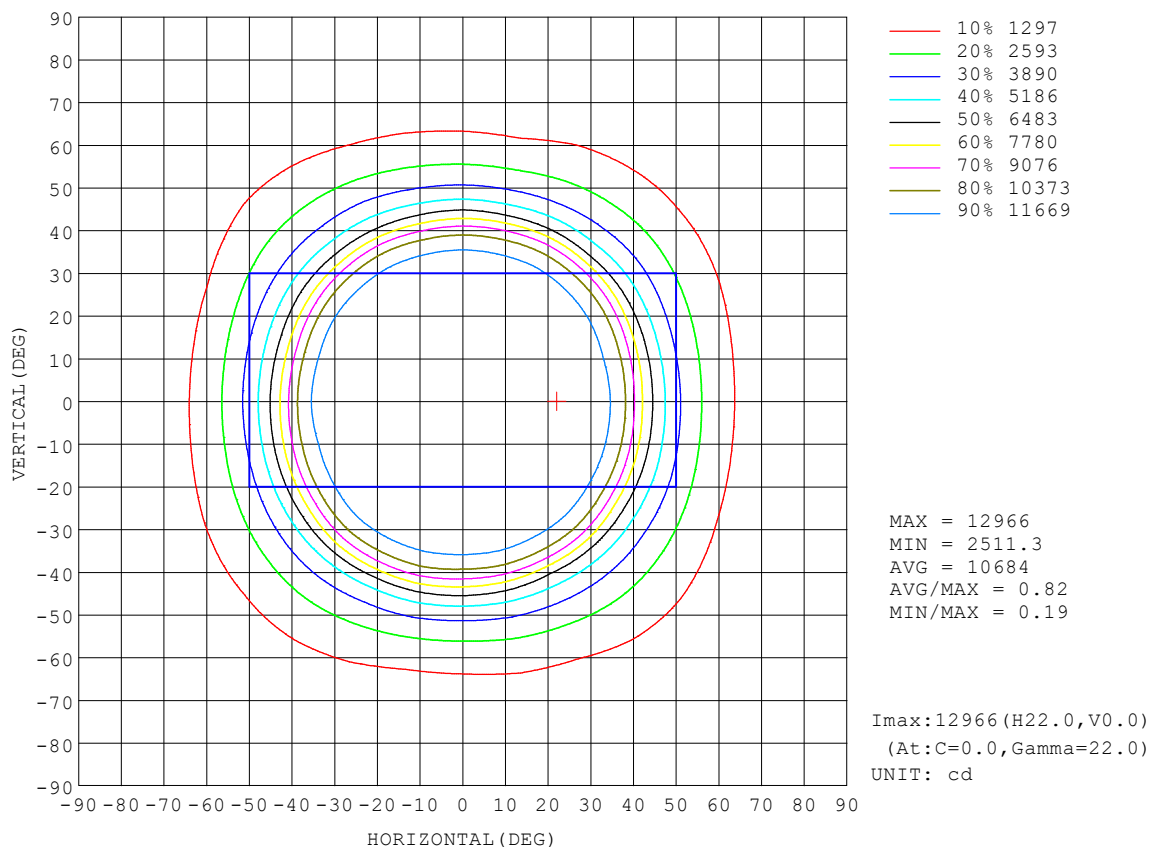
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	60	55	69	60	55	68	60	55	49
0.80	80	71	65	79	70	65	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	102	96	92	101	95	91	98	93	89	83
2.50	105	100	95	103	98	94	100	96	92	85
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: 2024-01-12

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:219.9V I:0.6709A P:145.4W PF:0.9855 Freq:50.00Hz Lamp Flux:27145.9x1 lm		
NAME: UFO-150W-90D	DIM.:	SERIAL No.:
SPEC.: 150W 6000K 90°		
MFR.: MOORE		

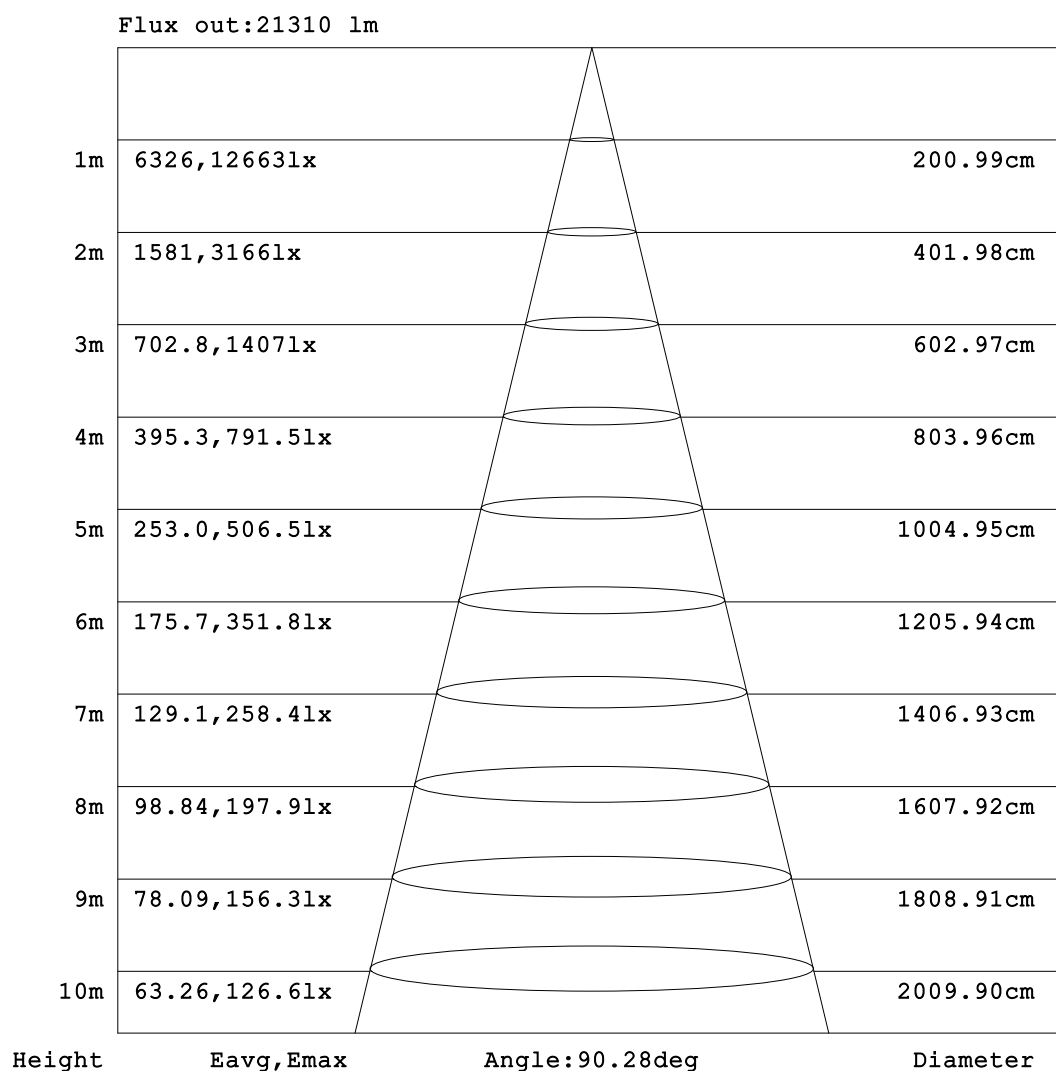


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:JASON
Test Date:2024-01-12

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:219.9V I:0.6709A P:145.4W PF:0.9855 Freq:50.00Hz Lamp Flux:27145.9x1 lm		
NAME: UFO-150W-90D	DIM.:	SERIAL No.:
SPEC.: 150W 6000K 90°		
MFR.: MOORE		



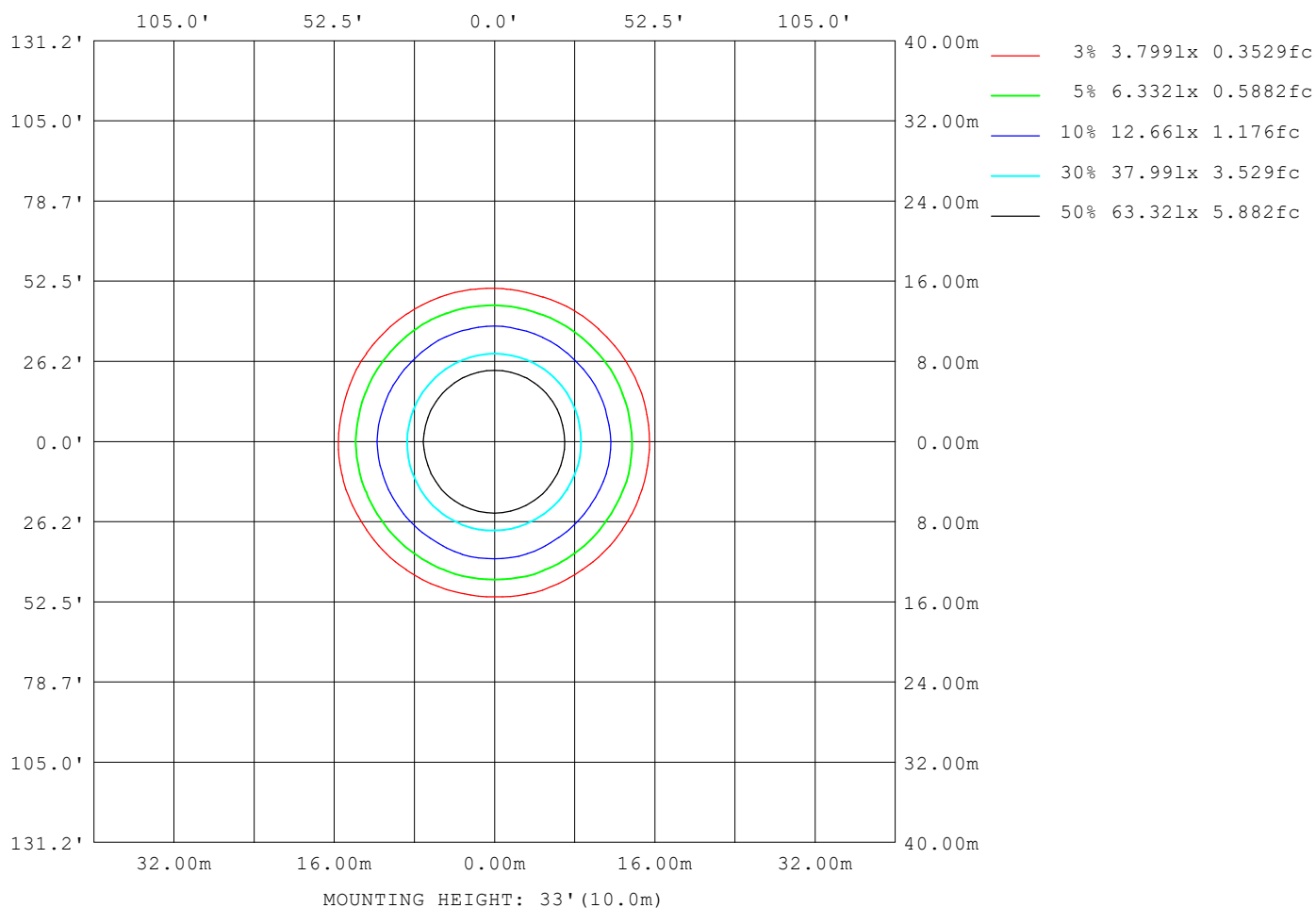
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: JASON
Test Date: 2024-01-12

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:219.9V I:0.6709A P:145.4W PF:0.9855 Freq:50.00Hz Lamp Flux:27145.9x1 lm		
NAME: UFO-150W-90D	DIM.:	SERIAL No.:
SPEC.: 150W 6000K 90°		
MFR.: MOORE		



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:JASON
Test Date:2024-01-12

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:219.9V I:0.6709A P:145.4W PF:0.9855 Freq:50.00Hz Lamp Flux:27145.9x1 lm		
NAME: UFO-150W-90D	DIM.:	SERIAL No.:
SPEC.: 150W 6000K 90°		
MFR.: MOORE		

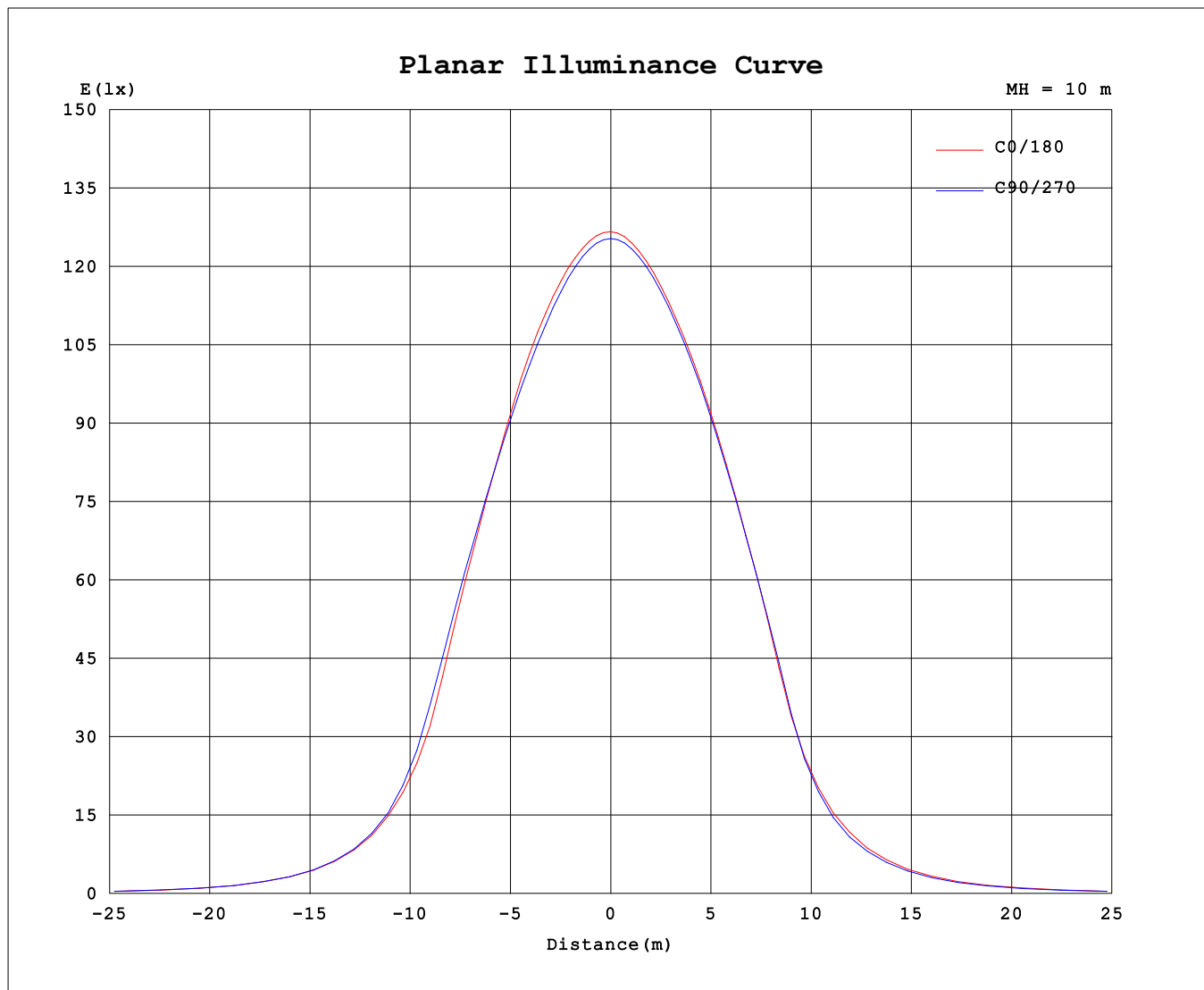
AvgL	cd/m2
L_0~180 (65) av	60594
L_0~180 (75) av	32125
L_0~180 (85) av	5172
L_90~270 (65) av	59425
L_90~270 (75) av	32883
L_90~270 (85) av	7852
L_45 (65) av	62032
L_45 (75) av	33150
L_45 (85) av	6005

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:JASON
Test Date:2024-01-12

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: 2024-01-12

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:

```

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:

```

```

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:

```