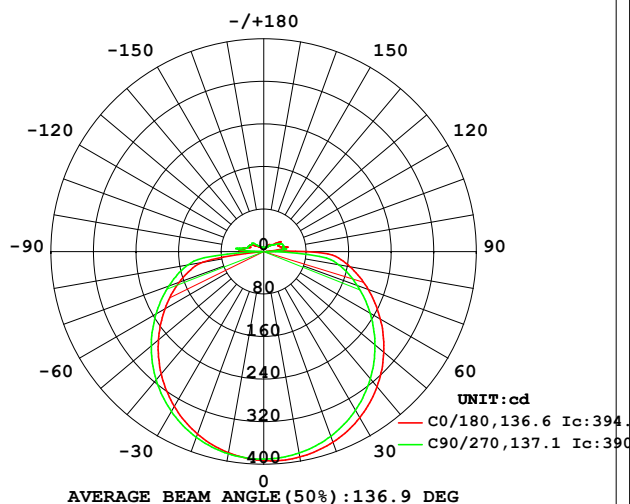


## LUMINAIRE PHOTOMETRIC TEST REPORT

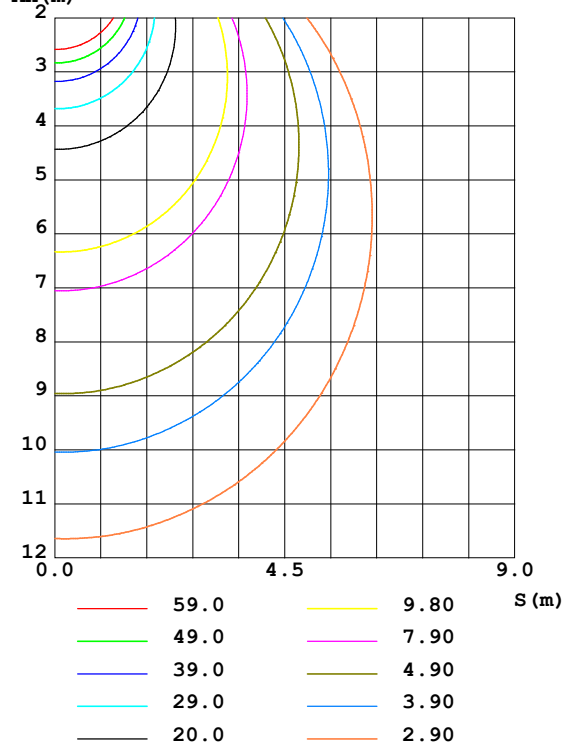
Test:U:120.1V I:0.2826A P:33.69W PF:0.9930 Freq:60.00Hz Lamp Flux:1600.7x1 lm		
NAME: <b>Maverick</b>	TYPE:--	SERIAL No.:FTS23101101L-02
SPEC.:C32724	DIM.: --	
MFR.: Matteo	SUR.:575mm	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 47.51 lm/W
MODEL	--	I <sub>max</sub> (cd)	394.1	S/MH (C0/180)	1.28	
NOMINAL POWER (W)	--	LOR (%)	100.0	S/MH (C90/270)	1.33	
RATED VOLTAGE (V)	--	TOTAL FLUX (lm)	1600.7	η UP, DN (C0-180)	4.5, 45.0	
NOMINAL FLUX (lm)	1600.7	CIE CLASS	DIRECT	η UP, DN (C180-360)	4.7, 45.8	
LAMPS INSIDE	1	η up (%)	9.2	CIBSE SHR NOM	1.50	
TEST VOLTAGE (V)	--	η down (%)	90.8	CIBSE SHR MAX	1.55	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Jason Huang  
Test Date: 2023-10-11

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000H\_V1 SYSTEM V2.0.404.7  
Humidity: 65.0%  
Test Distance: 13.486m [K=1.0000]  
Remarks: ---

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	392.1	390.2	384.5	379.5	384.0	382.1	385.8	390.8	0- 10	37.08	37.08	2.32,2.32
20	381.3	379.7	369.4	359.0	365.0	362.9	371.5	381.4	10- 20	107.3	144.4	9.02,9.02
30	361.0	359.6	344.8	329.6	336.4	334.2	347.3	362.4	20- 30	166.1	310.5	19.4,19.4
40	331.6	330.5	312.1	292.9	300.2	298.1	314.9	334.2	30- 40	207.5	518.0	32.4,32.4
50	294.8	294.2	273.2	251.7	258.5	256.4	276.2	298.7	40- 50	228.2	746.2	46.6,46.6
60	253.2	253.1	230.9	208.3	214.2	212.3	233.6	257.9	50- 60	227.8	974.0	60.8,60.8
70	209.4	209.6	187.5	164.9	169.4	168.3	190.1	214.2	60- 70	209.2	1183	73.9,73.9
80	164.8	166.0	143.3	98.04	116.2	103.1	144.6	170.4	70- 80	175.1	1358	84.9,84.9
90	81.94	96.06	5.878	31.22	28.35	32.94	3.240	101.1	80- 90	95.31	1454	90.8,90.8
100	43.67	31.70	38.34	30.92	39.22	33.15	41.26	33.13	90-100	37.11	1491	93.1,93.1
110	31.25	32.98	38.29	27.85	26.78	23.14	30.37	35.55	100-110	35.65	1526	95.4,95.4
120	37.87	30.21	29.18	21.21	25.48	22.55	26.94	22.93	110-120	27.94	1554	97.1,97.1
130	20.86	18.78	19.59	12.90	16.23	13.80	24.35	20.19	120-130	19.84	1574	98.3,98.3
140	15.15	14.93	14.47	10.35	12.15	11.83	14.05	16.95	130-140	12.35	1587	99.1,99.1
150	9.965	10.61	10.49	9.179	8.074	6.937	9.853	11.00	140-150	7.459	1594	99.6,99.6
160	7.865	8.455	8.619	7.106	6.363	6.222	8.323	9.262	150-160	4.058	1598	99.8,99.8
170	7.778	8.513	7.317	5.865	5.680	5.751	6.679	7.659	160-170	2.053	1600	100,100
180	5.637	6.022	5.922	5.987	5.651	6.001	5.937	5.994	170-180	0.6212	1601	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 630.88 lm

%lum = 39.4%

%lamp = 39.4%

Conical surface Flux(120deg): 974 lm

%lum = 60.8%

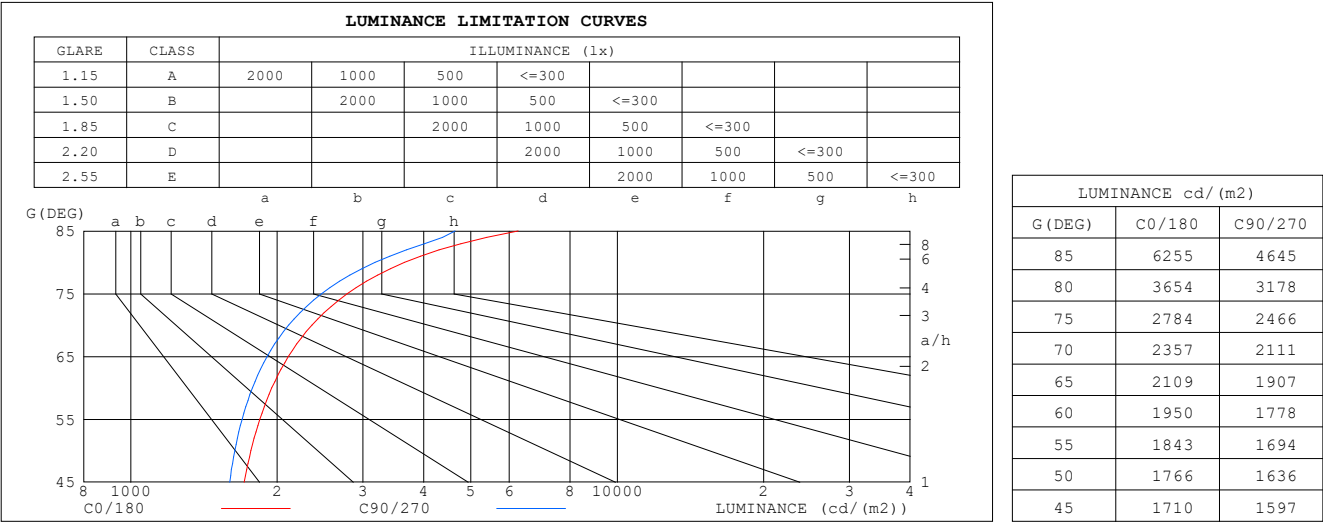
%lamp = 60.8%

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason Huang  
Test Date:2023-10-11

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.404.7  
Humidity:65.0%  
Test Distance:13.486m [K=1.0000]  
Remarks: ---

LUMINANCE LIMITATION CURVES

Test:U:120.1V I:0.2826A P:33.69W PF:0.9930 Freq:60.00Hz Lamp Flux:1600.7x1 lm		
NAME: <b>Maverick</b>	TYPE:--	SERIAL No.:FTS23101101L-02
SPEC.:C32724	DIM.: --	
MFR.: Matteo	SUR.:575mm	



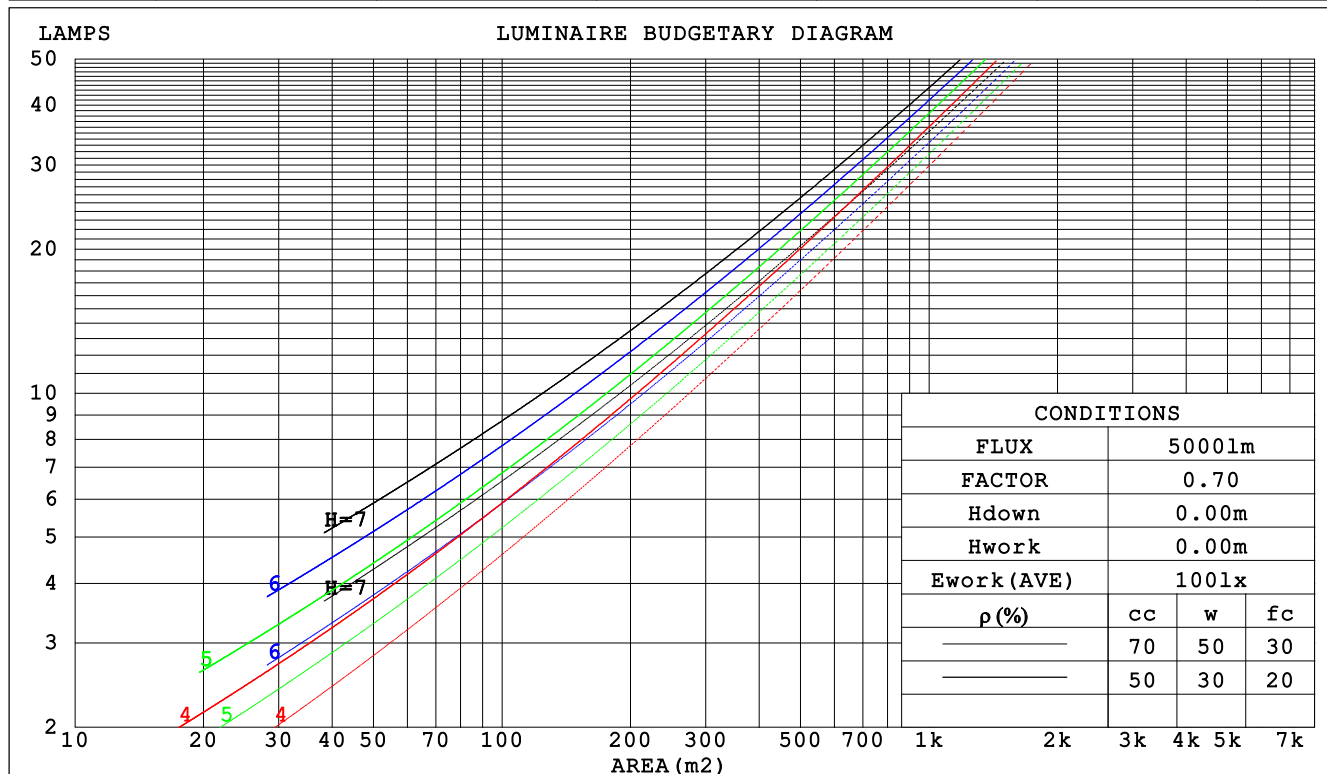
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason Huang  
Test Date:2023-10-11

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.404.7  
Humidity:65.0%  
Test Distance:13.486m [K=1.0000]  
Remarks: ---

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.1V I:0.2826A P:33.69W PF:0.9930 Freq:60.00Hz Lamp Flux:1600.7x1 lm		
NAME: <b>Maverick</b>	TYPE:--	SERIAL No.:FTS23101101L-02
SPEC.:C32724	DIM.: --	
MFR.: Matteo	SUR.:575mm	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	.00	.00	.00	.94	.94	.94	.91
1.0	.98	.93	.88	.95	.90	.86	.89	.85	.81	.83	.80	.77	.78	.76	.73	.70
2.0	.84	.76	.69	.81	.74	.68	.76	.70	.65	.71	.66	.62	.67	.63	.59	.56
3.0	.73	.63	.56	.70	.62	.55	.66	.59	.53	.62	.56	.51	.58	.53	.49	.46
4.0	.64	.54	.47	.62	.53	.46	.58	.50	.44	.54	.48	.43	.51	.46	.41	.38
5.0	.56	.47	.40	.55	.46	.39	.52	.44	.38	.48	.42	.36	.46	.40	.35	.33
6.0	.51	.41	.34	.49	.40	.34	.46	.38	.33	.44	.37	.32	.41	.35	.31	.28
7.0	.46	.36	.30	.44	.36	.29	.42	.34	.29	.40	.33	.28	.38	.32	.27	.25
8.0	.41	.33	.26	.40	.32	.26	.38	.31	.25	.36	.30	.25	.34	.28	.24	.22
9.0	.38	.29	.24	.37	.29	.23	.35	.28	.23	.33	.27	.22	.32	.26	.22	.20
10.0	.35	.27	.21	.34	.26	.21	.32	.25	.20	.31	.24	.20	.29	.24	.19	.18



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason Huang  
Test Date:2023-10-11

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.404.7  
Humidity:65.0%  
Test Distance:13.486m [K=1.0000]  
Remarks: ---

## GONIOPHOTOMETERS SYSTEM TEST REPORT

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## WEC AND CCEC

Test:U:120.1V I:0.2826A P:33.69W PF:0.9930 Freq:60.00Hz Lamp Flux:1600.7x1 lm		
NAME: <b>Maverick</b>	TYPE:--	SERIAL No.:FTS23101101L-02
SPEC.:C32724	DIM.: --	
MFR.: Matteo	SUR.:575mm	

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	.378	.215	.068	.368	.210	.067	.350	.201	.064	.332	.192	.062	.316	.183	.059	
2.0	.335	.183	.056	.326	.179	.055	.309	.172	.053	.293	.164	.051	.279	.158	.050	
3.0	.299	.159	.048	.291	.156	.047	.276	.150	.045	.262	.144	.044	.249	.138	.043	
4.0	.270	.140	.041	.263	.138	.041	.249	.132	.039	.237	.127	.038	.225	.122	.037	
5.0	.246	.125	.036	.239	.123	.036	.227	.118	.035	.216	.114	.034	.205	.110	.033	
6.0	.225	.113	.032	.220	.111	.032	.208	.107	.031	.198	.103	.030	.188	.099	.029	
7.0	.208	.103	.029	.203	.101	.029	.193	.097	.028	.183	.094	.027	.174	.091	.027	
8.0	.193	.094	.027	.188	.093	.026	.179	.089	.026	.170	.086	.025	.162	.083	.024	
9.0	.180	.087	.024	.175	.085	.024	.167	.083	.023	.159	.080	.023	.152	.077	.022	
10.0	.168	.081	.022	.164	.079	.022	.157	.077	.022	.149	.074	.021	.142	.072	.021	

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	.260	.260	.260	.223	.223	.223	.152	.152	.152	.087	.087	.087	.028	.028	.028	
1.0	.256	.226	.200	.219	.194	.172	.150	.134	.119	.086	.077	.069	.028	.025	.022	
2.0	.249	.203	.164	.213	.175	.142	.146	.121	.099	.084	.070	.058	.027	.023	.019	
3.0	.242	.186	.142	.207	.160	.123	.142	.111	.086	.082	.065	.051	.026	.021	.017	
4.0	.234	.173	.127	.201	.150	.110	.138	.104	.078	.080	.061	.046	.026	.020	.015	
5.0	.226	.163	.117	.194	.141	.102	.134	.099	.072	.077	.058	.043	.025	.019	.014	
6.0	.218	.155	.110	.188	.134	.095	.130	.094	.068	.075	.055	.040	.024	.018	.013	
7.0	.211	.148	.104	.182	.129	.091	.126	.090	.064	.073	.053	.038	.024	.017	.013	
8.0	.204	.143	.100	.176	.124	.087	.122	.087	.062	.071	.051	.037	.023	.017	.012	
9.0	.198	.138	.097	.171	.120	.085	.118	.084	.060	.069	.050	.036	.022	.016	.012	
10.0	.192	.134	.095	.166	.116	.083	.115	.082	.059	.067	.048	.035	.022	.016	.012	

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jason Huang  
 Test Date:2023-10-11

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.404.7  
 Humidity:65.0%  
 Test Distance:13.486m [K=1.0000]  
 Remarks: ---

# GONIOPHOTOMETERS SYSTEM TEST REPORT

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## UGR(Unified Glare Rating) Table

Test:U:120.1V I:0.2826A P:33.69W PF:0.9930 Freq:60.00Hz Lamp Flux:1600.7x1 lm										
NAME: <b>Maverick</b>					TYPE:--			SERIAL No.:FTS23101101L-02		
SPEC.:C32724					DIM.: --					
MFR.: Matteo					SUR.:575mm					
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	14.8	16.3	15.2	16.6	17.0	14.5	16.0	14.9	16.4	16.8
3H	17.2	18.6	17.6	19.0	19.4	16.8	18.2	17.2	18.6	19.0
4H	18.5	19.8	18.9	20.2	20.7	18.0	19.3	18.4	19.7	20.2
6H	19.9	21.1	20.3	21.6	22.0	19.3	20.5	19.8	21.0	21.5
8H	20.6	21.8	21.1	22.3	22.8	20.0	21.2	20.5	21.7	22.1
12H	21.5	22.7	22.0	23.1	23.6	20.7	21.9	21.2	22.3	22.8
4H 2H	15.6	16.9	16.0	17.3	17.8	15.4	16.7	15.8	17.1	17.6
3H	18.2	19.4	18.7	19.8	20.3	17.9	19.1	18.4	19.5	20.1
4H	19.6	20.7	20.2	21.2	21.7	19.3	20.4	19.8	20.9	21.4
6H	21.2	22.2	21.8	22.7	23.3	20.8	21.8	21.3	22.3	22.8
8H	22.1	23.0	22.7	23.5	24.1	21.6	22.5	22.1	23.0	23.6
12H	23.1	23.9	23.6	24.5	25.1	22.4	23.3	23.0	23.8	24.4
8H 4H	20.2	21.1	20.8	21.7	22.3	20.0	20.9	20.5	21.4	22.0
6H	22.1	22.9	22.7	23.4	24.0	21.7	22.5	22.3	23.1	23.7
8H	23.1	23.8	23.7	24.4	25.1	22.7	23.4	23.3	24.0	24.6
12H	24.3	24.9	25.0	25.5	26.2	23.8	24.4	24.4	25.0	25.7
12H 4H	20.4	21.2	20.9	21.7	22.3	20.1	20.9	20.7	21.5	22.1
6H	22.3	23.0	22.9	23.6	24.3	22.0	22.7	22.6	23.3	23.9
8H	23.5	24.1	24.1	24.7	25.4	23.1	23.7	23.8	24.3	25.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 1601 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 1.6$ )

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason Huang  
Test Date:2023-10-11

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.404.7  
Humidity:65.0%  
Test Distance:13.486m [K=1.0000]  
Remarks: ---

## UTILIZATION FACTORS TABLE

Test:U:120.1V I:0.2826A P:33.69W PF:0.9930 Freq:60.00Hz Lamp Flux:1600.7x1 lm		
NAME: <b>Maverick</b>	TYPE:--	SERIAL No.:FTS23101101L-02
SPEC.:C32724	DIM.: --	
MFR.: Matteo	SUR.:575mm	

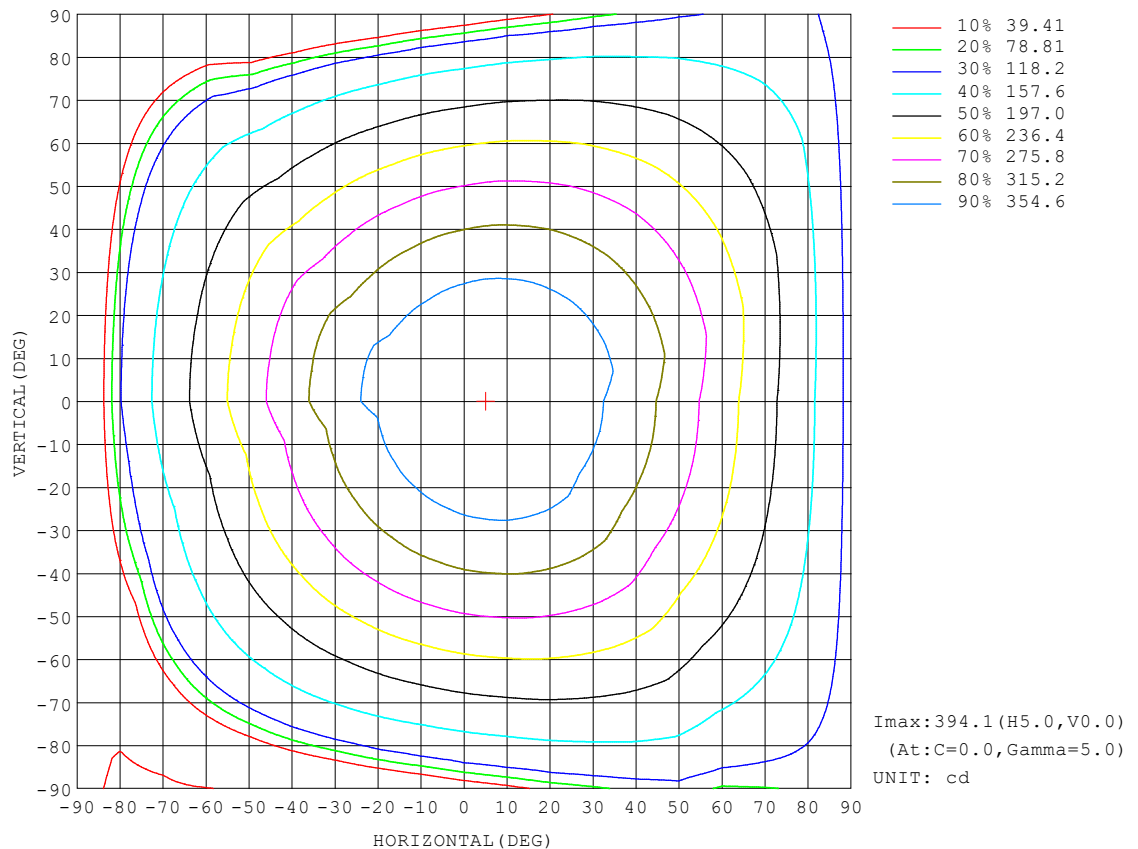
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	50	38	31	49	38	31	48	37	30	23
0.80	60	47	39	58	46	39	56	45	38	30
1.00	68	55	47	66	54	46	63	55	46	37
1.25	75	63	54	73	61	54	69	59	52	43
1.50	80	68	60	78	67	59	74	64	57	48
2.00	87	77	69	85	75	68	80	72	66	55
2.50	92	82	75	89	80	73	84	76	71	60
3.00	95	87	80	92	85	78	87	80	75	64
4.00	100	93	87	97	90	85	91	86	81	69
5.00	103	97	91	100	94	89	94	89	85	72
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jason Huang  
 Test Date:2023-10-11

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.404.7  
 Humidity:65.0%  
 Test Distance:13.486m [K=1.0000]  
 Remarks: ---

## ISOCANDELA DIAGRAM

Test:U:120.1V I:0.2826A P:33.69W PF:0.9930 Freq:60.00Hz Lamp Flux:1600.7x1 lm		
NAME: <b>Maverick</b>	TYPE:--	SERIAL No.:FTS23101101L-02
SPEC.:C32724	DIM.: --	
MFR.: Matteo	SUR.:575mm	



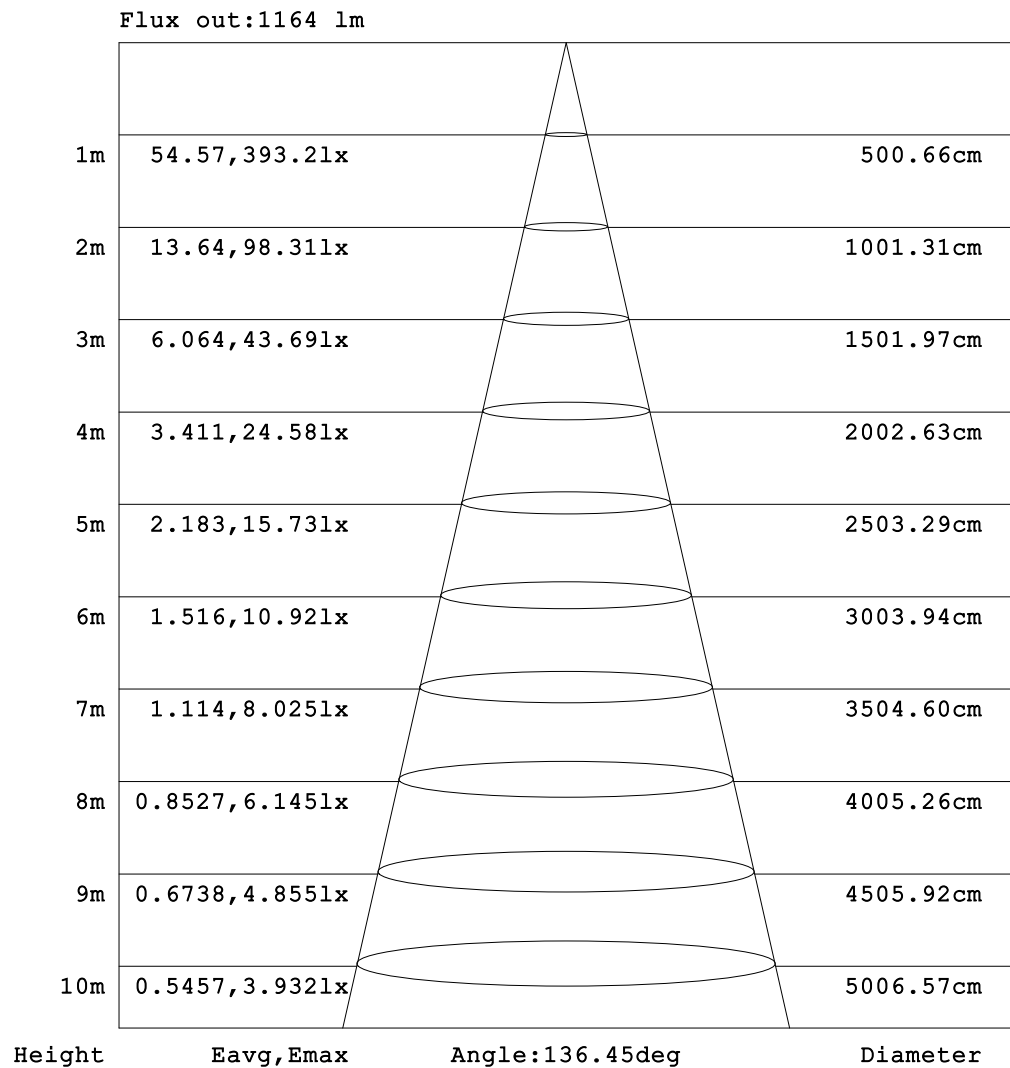
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason Huang  
Test Date:2023-10-11

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.404.7  
Humidity:65.0%  
Test Distance:13.486m [K=1.0000]  
Remarks: ---



## AAI Figure

Test:U:120.1V I:0.2826A P:33.69W PF:0.9930 Freq:60.00Hz Lamp Flux:1600.7x1 lm		
NAME: <b>Maverick</b>	TYPE:--	SERIAL No.:FTS23101101L-02
SPEC.:C32724	DIM.: --	
MFR.: Matteo	SUR.:575mm	



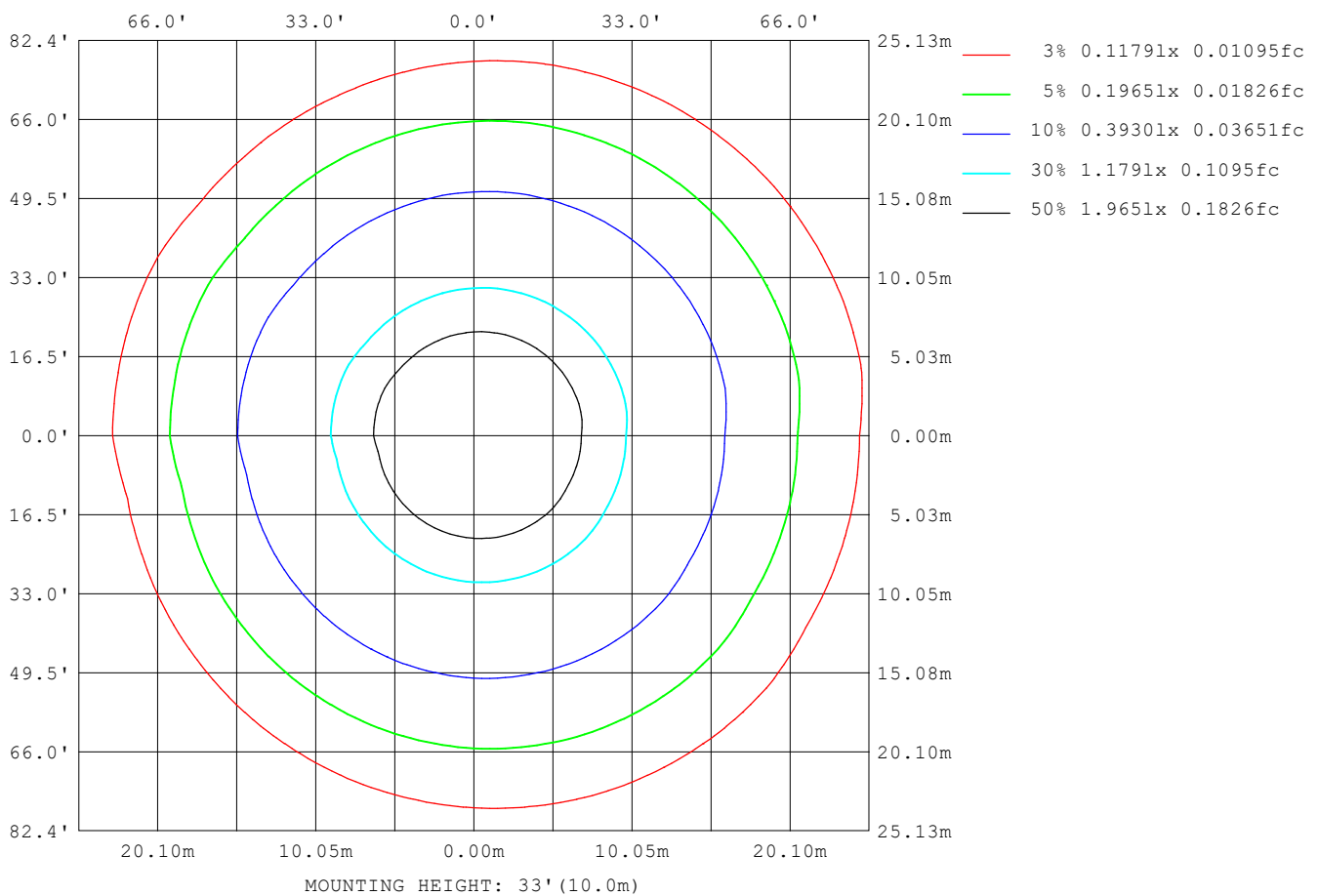
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jason Huang  
 Test Date:2023-10-11

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.404.7  
 Humidity:65.0%  
 Test Distance:13.486m [K=1.0000]  
 Remarks: ---

## ISOLUX DIAGRAM

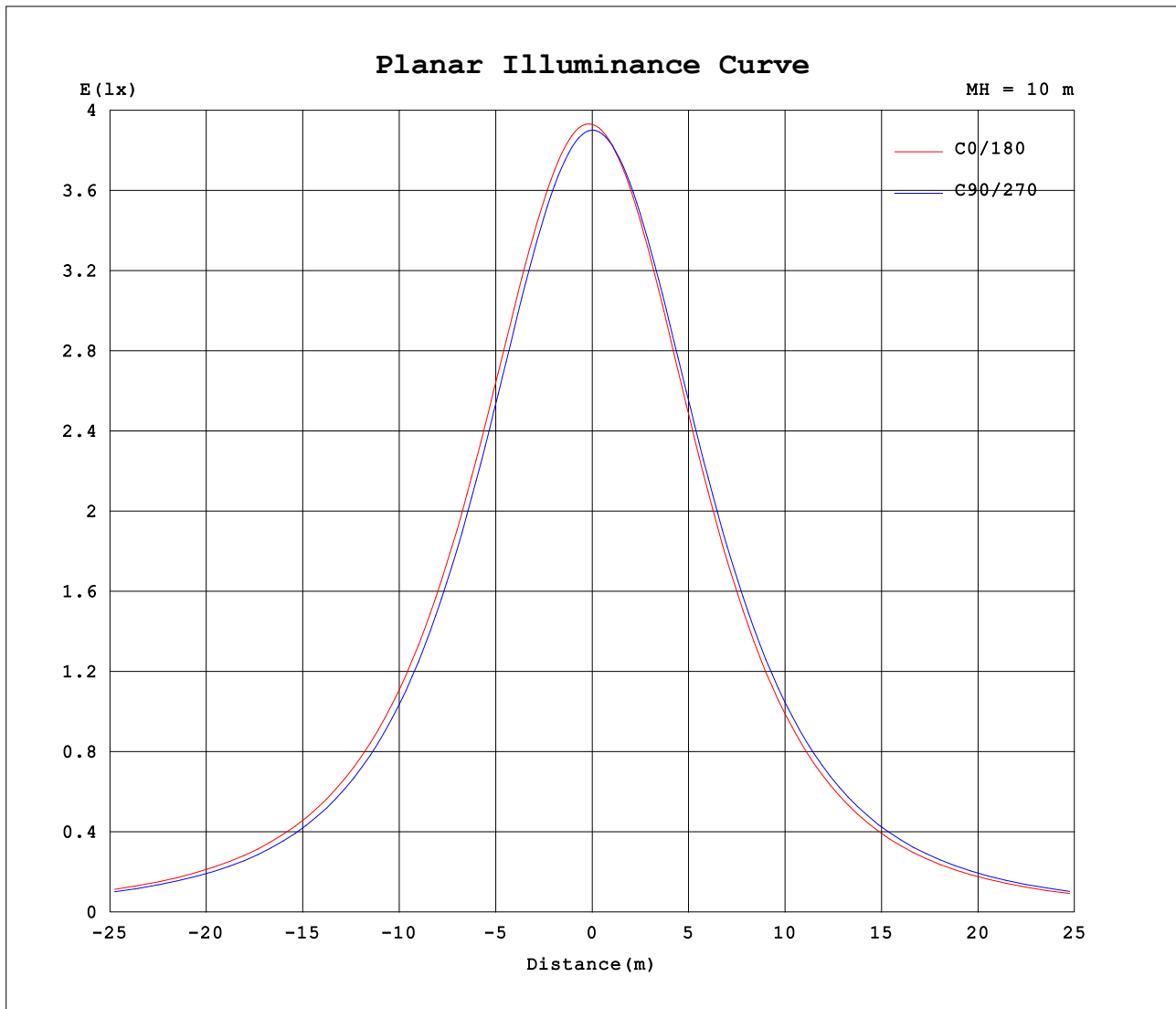
Test:U:120.1V I:0.2826A P:33.69W PF:0.9930 Freq:60.00Hz Lamp Flux:1600.7x1 lm		
NAME: <b>Maverick</b>	TYPE:--	SERIAL No.:FTS23101101L-02
SPEC.:C32724	DIM.: --	
MFR.: Matteo	SUR.:575mm	



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason Huang  
Test Date:2023-10-11

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.404.7  
Humidity:65.0%  
Test Distance:13.486m [K=1.0000]  
Remarks: ---

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Jason Huang  
Test Date: 2023-10-11

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000H\_V1 SYSTEM V2.0.404.7  
Humidity: 65.0%  
Test Distance: 13.486m [K=1.0000]  
Remarks: ---