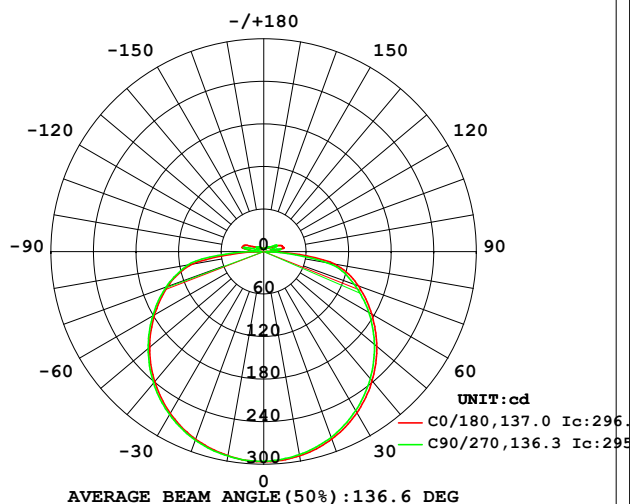


LUMINAIRE PHOTOMETRIC TEST REPORT

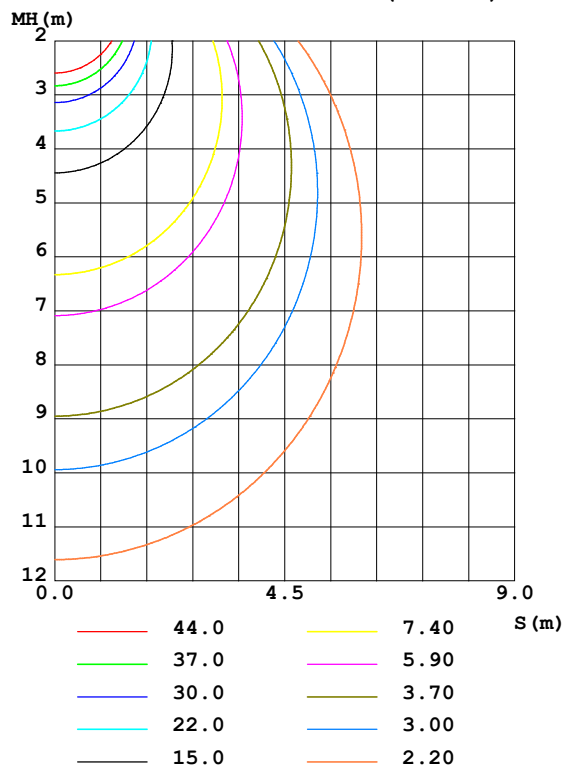
Test:U:120.1V I:0.1978A P:23.44W PF:0.9871 Freq:60.00Hz Lamp Flux:1152.97x1 lm		
NAME: Maverick	TYPE:--	SERIAL No.:FTS23101101L-01
SPEC.:C32716	DIM.: --	
MFR.: Matteo	SUR.:375mm	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 49.19 lm/W
MODEL	--	I _{max} (cd)	296.4	S/MH (C0/180)	1.33	
NOMINAL POWER (W)	--	LOR (%)	100.0	S/MH (C90/270)	1.34	
RATED VOLTAGE (V)	--	TOTAL FLUX (lm)	1153.0	η UP, DN (C0-180)	3.2, 46.0	
NOMINAL FLUX (lm)	1152.97	CIE CLASS	DIRECT	η UP, DN (C180-360)	3.0, 47.8	
LAMPS INSIDE	1	η up (%)	6.2	CIBSE SHR NOM	1.50	
TEST VOLTAGE (V)	--	η down (%)	93.8	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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	292.4	290.7	290.6	291.2	292.2	293.4	292.7	291.3	0- 10	28.03	28.03	2.43,2.43
20	281.3	278.3	278.6	280.4	281.4	283.8	282.8	280.3	10- 20	81.13	109.2	9.47,9.47
30	262.8	258.5	259.2	262.5	263.6	267.1	265.6	262.0	20- 30	125.7	234.9	20.4,20.4
40	237.9	232.9	233.9	238.3	239.3	243.9	241.9	237.4	30- 40	157.2	392.1	34,34
50	208.2	202.8	203.9	209.2	210.1	215.4	212.9	207.9	40- 50	172.9	565.1	49,49
60	175.6	170.3	171.1	177.2	177.7	183.5	180.6	175.4	50- 60	172.6	737.7	64,64
70	142.1	136.2	136.0	143.7	144.1	150.2	146.8	141.7	60- 70	158.1	895.8	77.7,77.7
80	101.1	88.11	91.05	102.1	102.2	110.8	108.2	100.5	70- 80	130.4	1026	89,89
90	2.667	4.012	3.995	3.549	1.649	12.61	11.78	2.797	80- 90	54.91	1081	93.8,93.8
100	28.49	22.23	22.18	25.11	30.46	24.24	27.85	26.78	90-100	15.87	1097	95.1,95.1
110	25.81	15.42	15.62	14.27	26.93	15.28	8.423	11.91	100-110	20.91	1118	97,97
120	13.00	8.763	17.66	10.40	13.22	12.84	11.68	8.501	110-120	13.25	1131	98.1,98.1
130	9.086	9.373	10.15	9.485	8.938	5.959	10.66	6.050	120-130	8.581	1140	98.9,98.9
140	7.735	6.182	8.033	6.313	6.914	5.892	7.168	4.730	130-140	5.681	1145	99.3,99.3
150	5.627	5.330	5.350	5.223	4.949	4.745	4.943	4.917	140-150	3.699	1149	99.7,99.7
160	4.425	4.774	4.738	4.581	3.925	4.067	4.197	4.181	150-160	2.272	1151	99.9,99.9
170	4.267	4.502	4.424	4.267	3.996	3.875	3.967	4.060	160-170	1.203	1153	100,100
180	4.524	4.374	4.253	4.431	4.524	4.367	4.239	4.417	170-180	0.4008	1153	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 477.65 lm

%lum = 41.4%

%lamp = 41.4%

Conical surface Flux(120deg): 737.67 lm

%lum = 64.0%

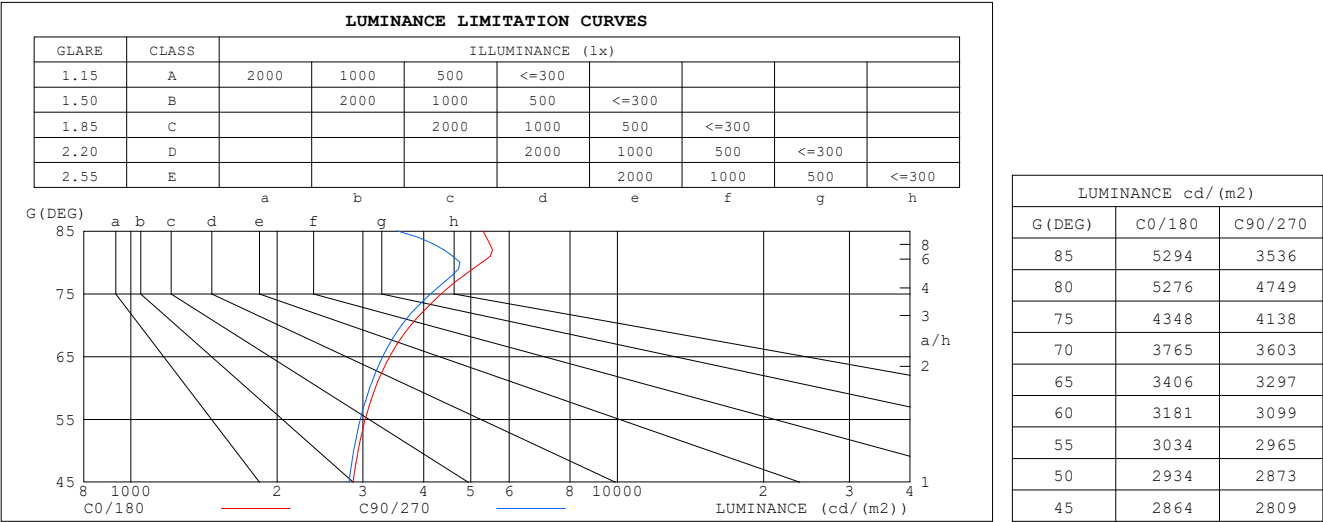
%lamp = 64.0%

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: ---

LUMINANCE LIMITATION CURVES

Test:U:120.1V I:0.1978A P:23.44W PF:0.9871 Freq:60.00Hz Lamp Flux:1152.97x1 lm		
NAME: Maverick	TYPE:--	SERIAL No.:FTS23101101L-01
SPEC.:C32716	DIM.: --	
MFR.: Matteo	SUR.:375mm	



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: ---

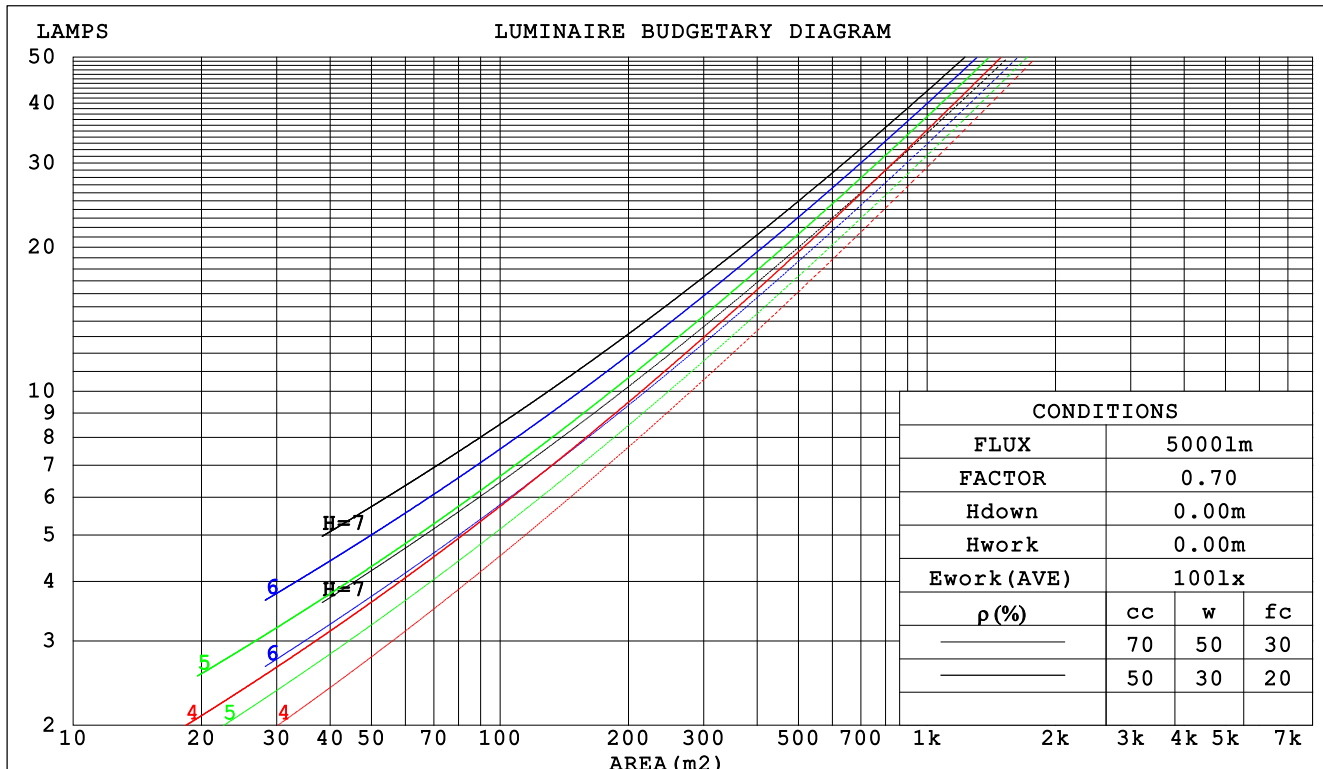
GONIOPHOTOMETERS SYSTEM TEST REPORT

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.1V I:0.1978A P:23.44W PF:0.9871 Freq:60.00Hz Lamp Flux:1152.97x1 lm		
NAME: Maverick	TYPE:--	SERIAL No.:FTS23101101L-01
SPEC.:C32716	DIM.: --	
MFR.: Matteo	SUR.:375mm	

ρ_{cc}	80%			70%			50%			30%			10%			0														
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
ρ_{fc}	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization(CU)														
0.0	1.18	1.18	1.18	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	.96	.96	.96	.94														
1.0	.99	.94	.90	.96	.92	.87	.91	.87	.84	.86	.83	.80	.81	.79	.76	.74														
2.0	.85	.77	.70	.82	.75	.69	.78	.72	.67	.73	.68	.64	.69	.65	.62	.59														
3.0	.73	.64	.57	.71	.63	.56	.67	.60	.54	.64	.58	.53	.60	.55	.51	.48														
4.0	.64	.55	.48	.63	.54	.47	.59	.52	.45	.56	.50	.44	.53	.48	.43	.40														
5.0	.57	.47	.40	.56	.47	.40	.53	.45	.39	.50	.43	.38	.47	.42	.37	.34														
6.0	.51	.42	.35	.50	.41	.34	.47	.39	.34	.45	.38	.33	.43	.37	.32	.30														
7.0	.46	.37	.30	.45	.36	.30	.43	.35	.29	.41	.34	.29	.39	.33	.28	.26														
8.0	.42	.33	.27	.41	.33	.27	.39	.32	.26	.37	.31	.26	.36	.30	.25	.23														
9.0	.38	.30	.24	.38	.29	.24	.36	.29	.23	.34	.28	.23	.33	.27	.22	.21														
10.0	.35	.27	.22	.35	.27	.22	.33	.26	.21	.32	.25	.21	.30	.25	.20	.18														



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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WEC AND CCEC

Test:U:120.1V I:0.1978A P:23.44W PF:0.9871 Freq:60.00Hz Lamp Flux:1152.97x1 lm		
NAME: Maverick	TYPE:--	SERIAL No.:FTS23101101L-01
SPEC.:C32716	DIM.: --	
MFR.: Matteo	SUR.:375mm	

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	.369	.210	.066	.360	.205	.065	.343	.197	.063	.327	.189	.060	.312	.181	.058		
2.0	.331	.181	.056	.323	.178	.055	.308	.171	.053	.293	.165	.052	.280	.159	.050		
3.0	.298	.159	.048	.291	.156	.047	.277	.150	.046	.264	.145	.044	.253	.140	.043		
4.0	.270	.140	.041	.263	.138	.041	.251	.133	.040	.240	.129	.039	.229	.124	.038		
5.0	.246	.125	.036	.240	.123	.036	.229	.119	.035	.219	.115	.034	.209	.112	.034		
6.0	.226	.113	.032	.221	.111	.032	.211	.108	.031	.201	.105	.031	.193	.101	.030		
7.0	.208	.103	.029	.204	.101	.029	.195	.098	.028	.186	.095	.028	.178	.093	.027		
8.0	.193	.094	.027	.189	.093	.026	.181	.090	.026	.173	.088	.025	.166	.085	.025		
9.0	.180	.087	.024	.176	.086	.024	.169	.084	.024	.162	.081	.023	.155	.079	.023		
10.0	.169	.081	.022	.165	.080	.022	.158	.078	.022	.152	.076	.021	.146	.073	.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	.238	.238	.238	.203	.203	.203	.139	.139	.139	.080	.080	.080	.025	.025	.025	
1.0	.232	.203	.178	.199	.175	.153	.136	.120	.106	.078	.070	.061	.025	.022	.020	
2.0	.226	.180	.141	.193	.155	.122	.132	.107	.085	.076	.062	.050	.025	.020	.016	
3.0	.218	.163	.119	.187	.141	.103	.129	.098	.072	.074	.057	.043	.024	.019	.014	
4.0	.211	.150	.104	.181	.130	.090	.124	.090	.064	.072	.053	.038	.023	.017	.012	
5.0	.203	.140	.094	.174	.121	.081	.120	.085	.058	.070	.050	.034	.022	.016	.011	
6.0	.195	.132	.086	.168	.114	.075	.116	.080	.053	.067	.047	.032	.022	.015	.010	
7.0	.188	.125	.081	.162	.108	.071	.112	.076	.050	.065	.045	.030	.021	.015	.010	
8.0	.181	.119	.077	.156	.104	.067	.108	.073	.048	.063	.043	.028	.020	.014	.009	
9.0	.175	.115	.074	.151	.099	.064	.104	.070	.046	.061	.041	.027	.020	.014	.009	
10.0	.169	.110	.071	.146	.096	.062	.101	.067	.044	.059	.040	.026	.019	.013	.009	

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:0.1978A P:23.44W PF:0.9871 Freq:60.00Hz Lamp Flux:1152.97x1 lm										
NAME: Maverick					TYPE:--			SERIAL No.:FTS23101101L-01		
SPEC.:C32716					DIM.: --					
MFR.: Matteo					SUR.:375mm					
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	16.4	17.9	16.7	18.2	18.6	16.3	17.8	16.6	18.1	18.5
3H	18.7	20.1	19.1	20.5	20.9	18.5	20.0	18.9	20.3	20.7
4H	19.9	21.3	20.3	21.7	22.1	19.7	21.1	20.1	21.4	21.8
6H	21.2	22.5	21.6	22.9	23.3	20.9	22.2	21.3	22.5	23.0
8H	21.7	22.9	22.1	23.3	23.8	21.2	22.5	21.7	22.9	23.3
12H	22.0	23.2	22.5	23.7	24.1	21.4	22.6	21.9	23.0	23.5
4H 2H	17.1	18.5	17.6	18.9	19.3	17.1	18.4	17.5	18.8	19.2
3H	19.7	20.9	20.1	21.3	21.7	19.5	20.7	20.0	21.1	21.6
4H	21.1	22.2	21.5	22.6	23.1	20.9	22.0	21.3	22.4	22.9
6H	22.5	23.5	23.0	23.9	24.4	22.2	23.2	22.7	23.6	24.1
8H	23.1	24.0	23.6	24.5	25.0	22.6	23.5	23.1	24.0	24.5
12H	23.5	24.3	24.0	24.8	25.4	22.8	23.7	23.3	24.2	24.7
8H 4H	21.6	22.5	22.1	23.0	23.5	21.4	22.3	21.9	22.8	23.3
6H	23.2	23.9	23.7	24.5	25.0	22.9	23.7	23.4	24.2	24.7
8H	23.8	24.5	24.4	25.1	25.7	23.4	24.1	24.0	24.6	25.2
12H	24.3	24.9	24.9	25.5	26.1	23.7	24.3	24.3	24.9	25.5
12H 4H	21.6	22.5	22.2	23.0	23.5	21.5	22.3	22.0	22.8	23.4
6H	23.3	24.0	23.8	24.5	25.1	23.0	23.7	23.6	24.3	24.8
8H	24.0	24.6	24.6	25.2	25.8	23.6	24.2	24.1	24.7	25.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 1153 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 0.5$)

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: ---

UTILIZATION FACTORS TABLE

Test:U:120.1V I:0.1978A P:23.44W PF:0.9871 Freq:60.00Hz Lamp Flux:1152.97x1 lm		
NAME: Maverick	TYPE:--	SERIAL No.:FTS23101101L-01
SPEC.:C32716	DIM.: --	
MFR.: Matteo	SUR.:375mm	

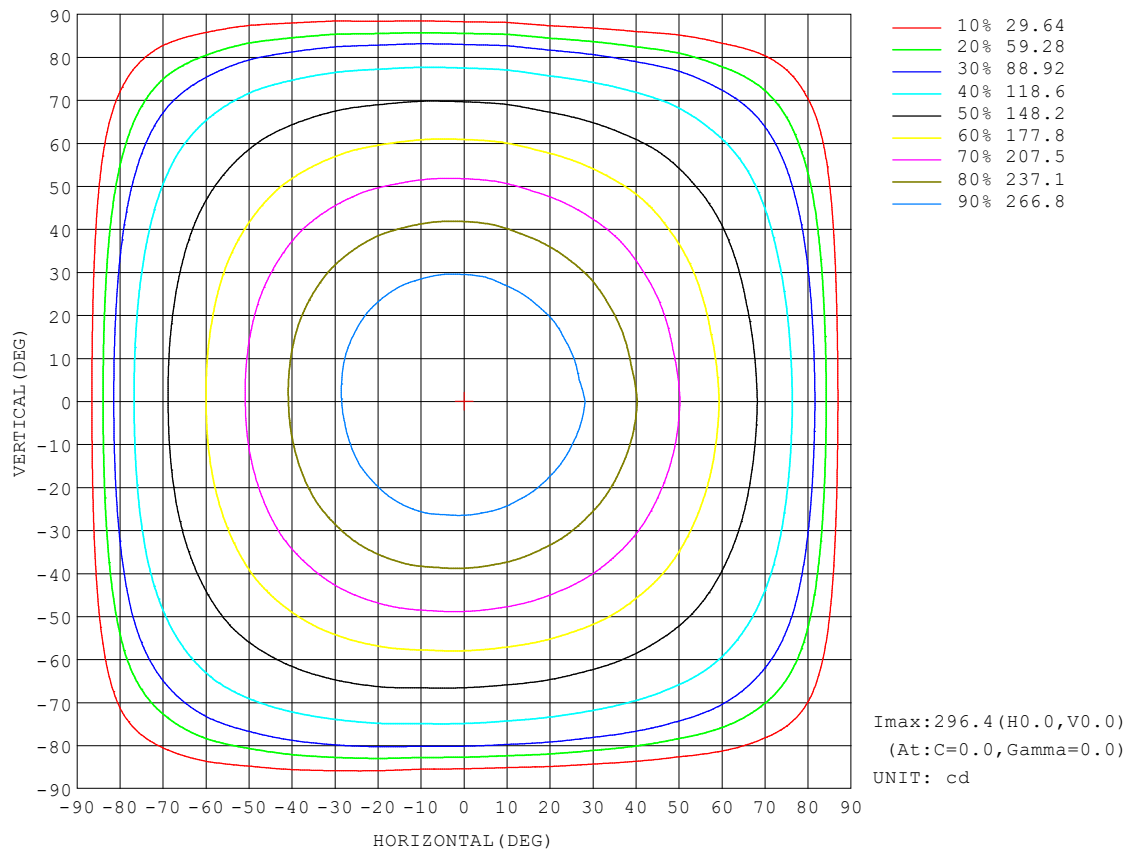
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	52	39	32	51	39	32	49	38	31	25
0.80	61	48	40	60	48	40	58	47	39	32
1.00	69	57	48	68	56	48	65	57	47	39
1.25	76	64	56	74	63	55	71	61	54	46
1.50	81	70	62	79	69	61	75	66	60	50
2.00	89	78	71	86	77	70	82	74	68	58
2.50	93	84	77	91	82	75	86	79	73	63
3.00	97	89	82	94	87	80	89	83	78	67
4.00	102	94	89	99	92	87	93	88	83	72
5.00	104	98	93	101	96	91	96	91	87	76
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

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: ---

ISOCANDELA DIAGRAM

Test:U:120.1V I:0.1978A P:23.44W PF:0.9871 Freq:60.00Hz Lamp Flux:1152.97x1 lm		
NAME: Maverick	TYPE:--	SERIAL No.:FTS23101101L-01
SPEC.:C32716	DIM.: --	
MFR.: Matteo	SUR.:375mm	

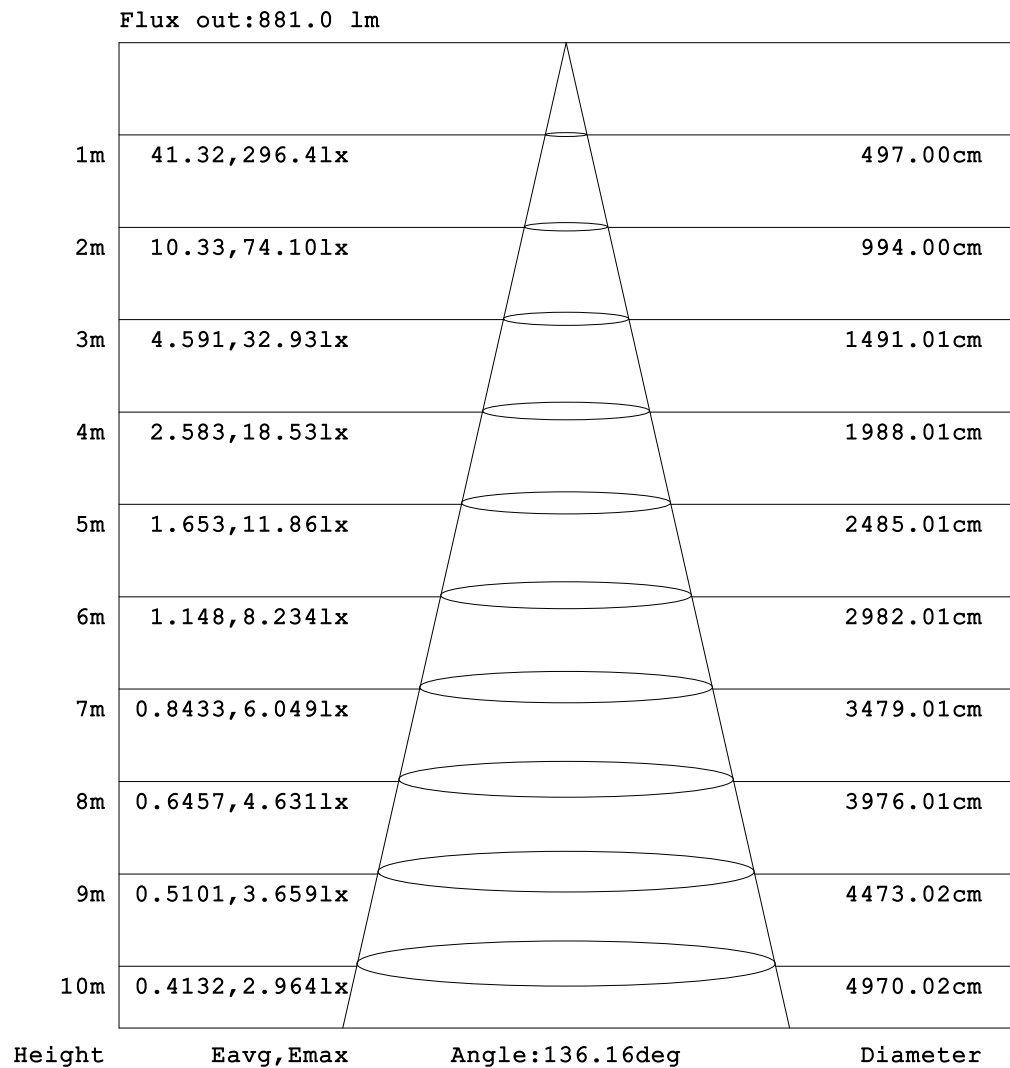


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-10-11

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: ---

AAI Figure

Test:U:120.1V I:0.1978A P:23.44W PF:0.9871 Freq:60.00Hz Lamp Flux:1152.97x1 lm		
NAME: Maverick	TYPE:--	SERIAL No.:FTS23101101L-01
SPEC.:C32716	DIM.: --	
MFR.: Matteo	SUR.:375mm	



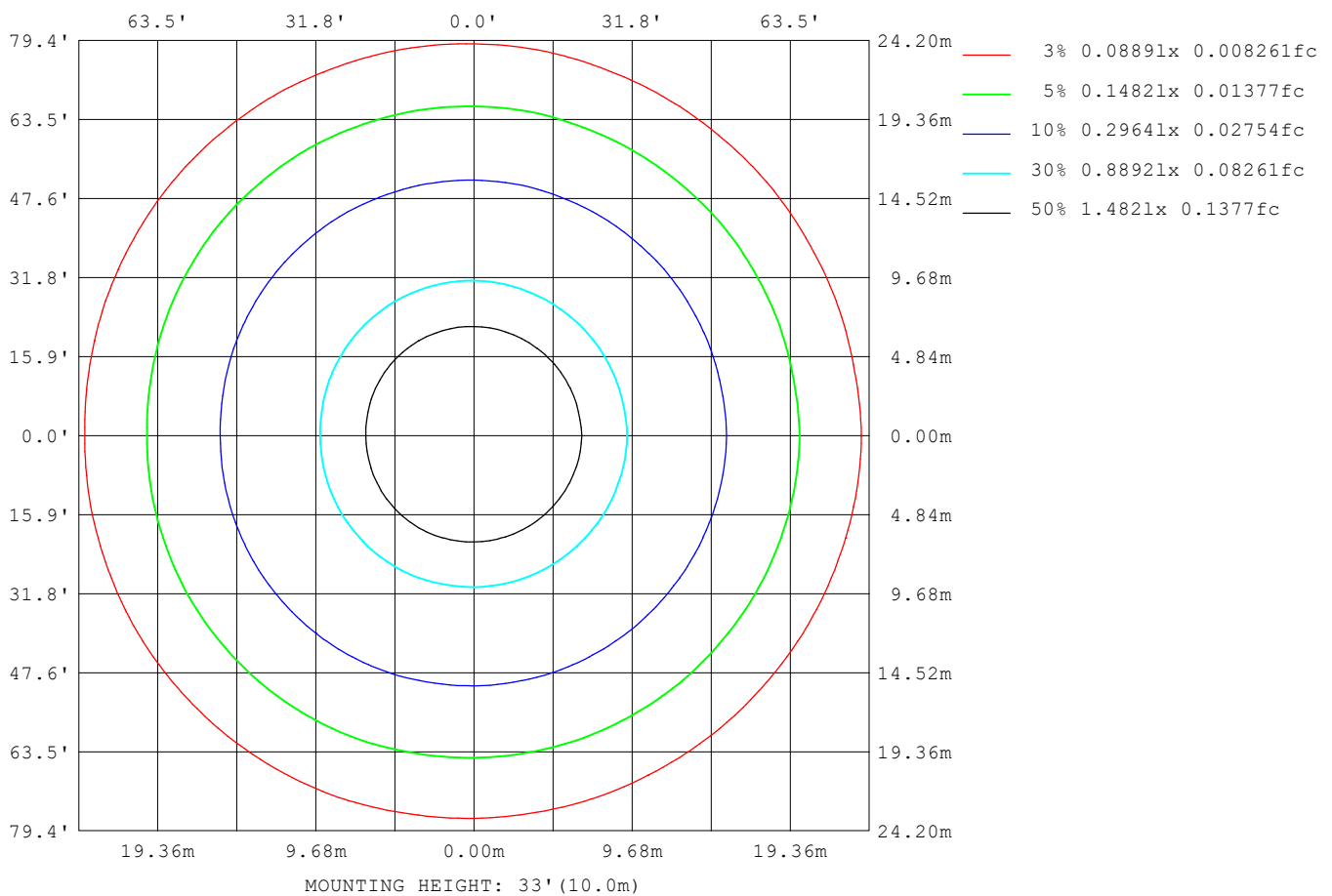
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

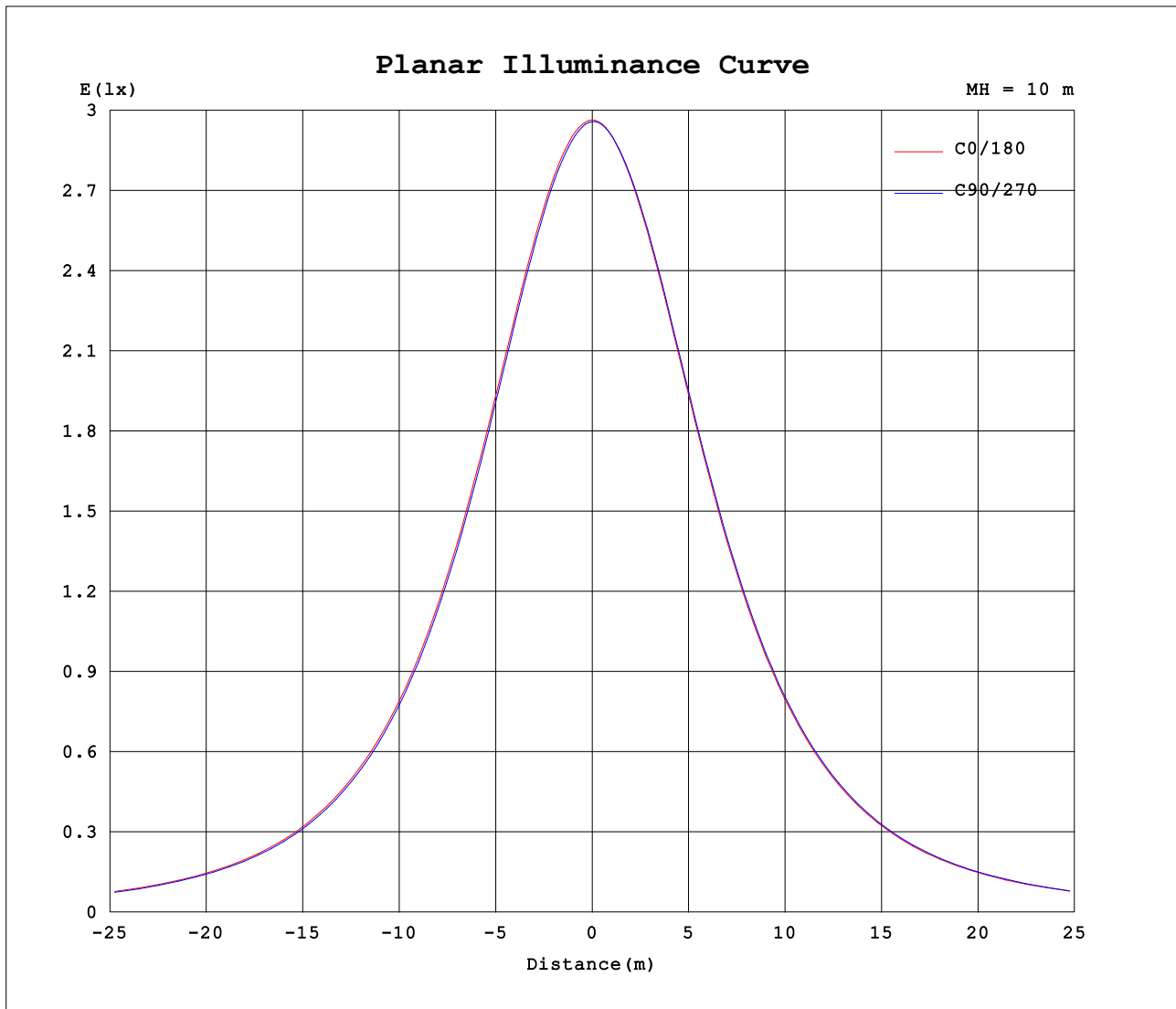
Test:U:120.1V I:0.1978A P:23.44W PF:0.9871 Freq:60.00Hz Lamp Flux:1152.97x1 lm		
NAME: Maverick	TYPE:--	SERIAL No.:FTS23101101L-01
SPEC.:C32716	DIM.: --	
MFR.: Matteo	SUR.:375mm	



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: ---

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

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: ---