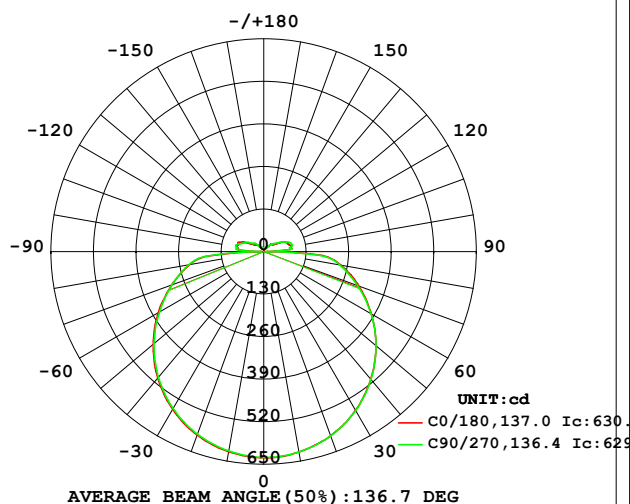


LUMINAIRE PHOTOMETRIC TEST REPORT

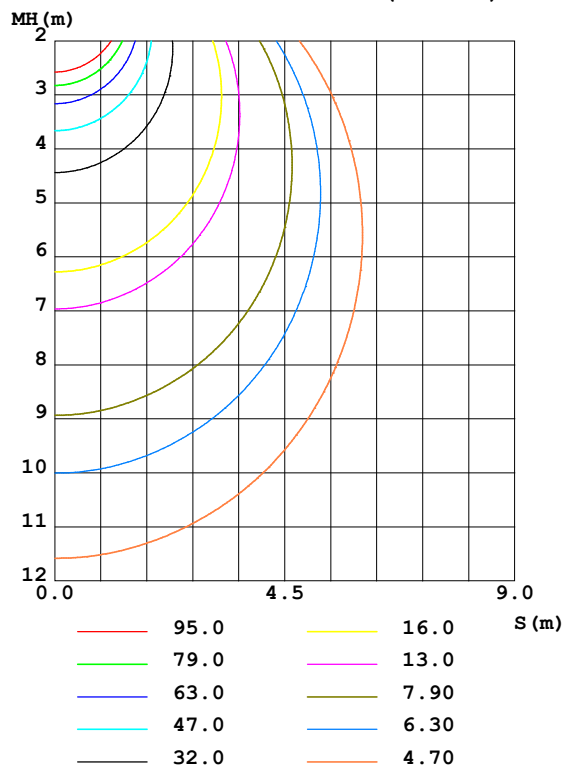
Test:U:120.2V I:0.4058A P:47.78W PF:0.9795 Freq:60.00Hz Lamp Flux:2641.08x1 lm		
NAME: Maverick	TYPE:--	SERIAL No.:FTS23101101L-03
SPEC.:C32732	DIM.: --	
MFR.: Matteo	SUR.:770mm	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 55.28 lm/W			
MODEL	--	I _{max} (cd)	630.3	S/MH(C0/180)	1.32
NOMINAL POWER(W)	--	LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	--	TOTAL FLUX(lm)	2641.1	η UP,DN(C0-180)	5.3,44.9
NOMINAL FLUX(lm)	2641.08	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	5.4,44.3
LAMPS INSIDE	1	η up(%)	10.7	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	--	η down(%)	89.3	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	621.9	621.9	621.5	619.9	620.6	619.9	618.3	618.7	0- 10	59.61	59.61	2.26,2.26
20	598.7	599.4	599.0	597.2	596.5	595.3	593.9	594.4	10- 20	172.4	232.0	8.79,8.79
30	560.8	561.6	561.4	558.9	556.8	555.5	554.0	555.5	20- 30	267.2	499.2	18.9,18.9
40	509.3	510.2	509.8	506.6	504.1	502.4	500.8	503.2	30- 40	334.0	833.2	31.5,31.5
50	447.8	448.4	447.9	444.4	441.1	439.5	437.7	440.9	40- 50	367.3	1200	45.5,45.5
60	379.4	380.2	378.2	374.4	371.9	370.1	367.8	372.0	50- 60	366.4	1567	59.3,59.3
70	309.9	308.4	305.6	302.1	299.8	300.1	298.5	302.2	60- 70	335.6	1902	72,72
80	239.4	238.2	236.0	233.1	230.0	233.2	233.2	236.0	70- 80	284.0	2187	82.8,82.8
90	14.48	10.58	9.724	5.381	5.315	8.083	8.551	8.105	80- 90	171.1	2358	89.3,89.3
100	86.45	73.49	84.21	74.96	86.20	75.61	86.26	77.72	90-100	63.32	2421	91.7,91.7
110	79.56	65.92	83.01	70.74	83.41	62.52	73.18	67.52	100-110	80.03	2501	94.7,94.7
120	51.49	41.81	57.18	41.29	50.20	39.71	58.00	45.44	110-120	61.22	2562	97,97
130	34.41	29.58	37.48	30.70	31.04	35.49	38.51	34.47	120-130	35.88	2598	98.4,98.4
140	21.71	20.21	21.40	16.50	21.94	21.19	23.34	21.72	130-140	22.73	2621	99.2,99.2
150	15.52	14.05	14.29	13.83	13.40	14.18	15.12	14.04	140-150	10.83	2632	99.6,99.6
160	11.35	10.32	10.50	10.44	9.675	10.67	11.26	10.71	150-160	5.690	2637	99.9,99.9
170	8.795	8.520	8.561	8.642	7.734	8.471	8.895	9.134	160-170	2.976	2640	100,100
180	7.863	8.206	8.163	8.441	7.835	8.227	8.177	8.441	170-180	0.7949	2641	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1014.8 lm

%lum = 38.4%

%lamp = 38.4%

Conical surface Flux(120deg): 1566.9 lm

%lum = 59.3%

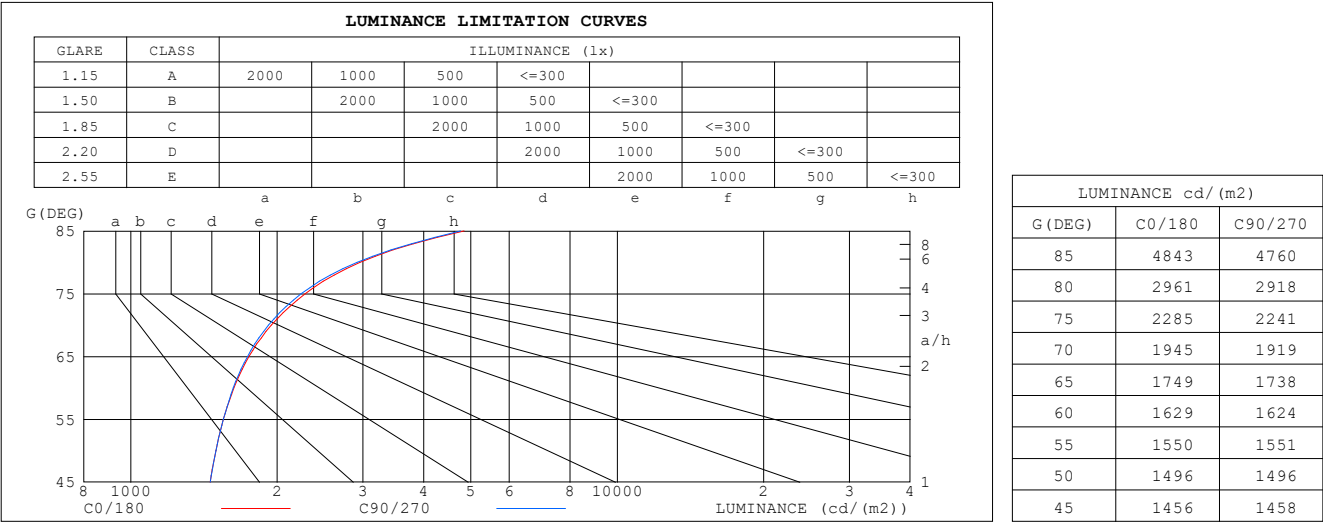
%lamp = 59.3%

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:120.2V I:0.4058A P:47.78W PF:0.9795 Freq:60.00Hz Lamp Flux:2641.08x1 lm		
NAME: Maverick	TYPE:--	SERIAL No.:FTS23101101L-03
SPEC.:C32732	DIM.: --	
MFR.: Matteo	SUR.:770mm	



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: ---

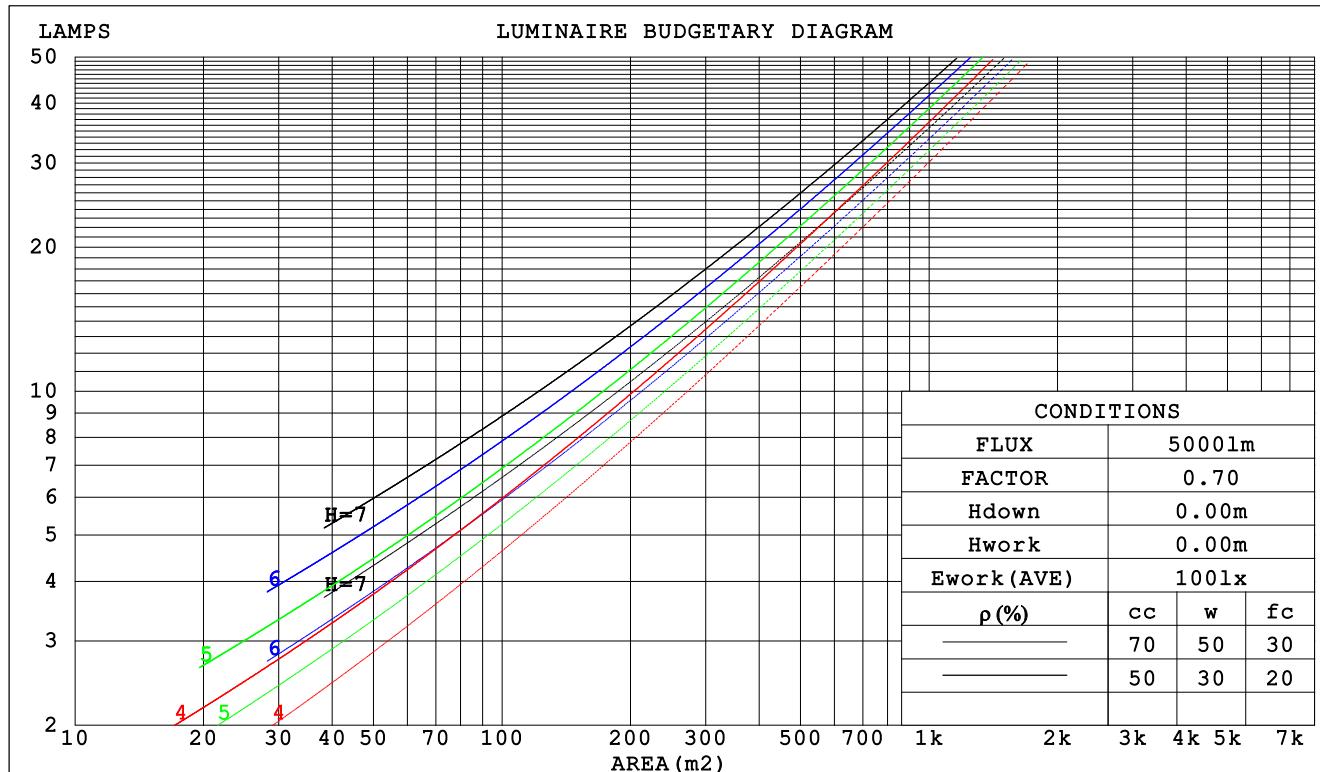
GONIOPHOTOMETERS SYSTEM TEST REPORT

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.2V I:0.4058A P:47.78W PF:0.9795 Freq:60.00Hz Lamp Flux:2641.08x1 lm		
NAME: Maverick	TYPE:--	SERIAL No.:FTS23101101L-03
SPEC.:C32732	DIM.: --	
MFR.: Matteo	SUR.:770mm	

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	1.16	1.16	1.16	1.13	1.13	1.13	1.05	1.05	1.05	.98	.98	.98	.92	.92	.92	.89
1.0	.98	.92	.87	.94	.89	.85	.88	.84	.80	.82	.79	.76	.77	.74	.72	.69
2.0	.83	.75	.69	.80	.73	.67	.75	.69	.64	.70	.65	.61	.65	.61	.58	.55
3.0	.72	.63	.56	.70	.61	.54	.65	.58	.52	.61	.55	.50	.57	.52	.48	.45
4.0	.63	.54	.46	.61	.52	.45	.57	.50	.44	.54	.47	.42	.50	.45	.40	.37
5.0	.56	.46	.39	.54	.45	.39	.51	.43	.37	.48	.41	.36	.45	.39	.34	.32
6.0	.50	.41	.34	.49	.40	.33	.46	.38	.32	.43	.36	.31	.40	.35	.30	.28
7.0	.45	.36	.30	.44	.35	.29	.41	.34	.28	.39	.32	.27	.37	.31	.26	.24
8.0	.41	.32	.26	.40	.32	.26	.38	.30	.25	.36	.29	.24	.34	.28	.23	.21
9.0	.38	.29	.23	.37	.29	.23	.35	.27	.22	.33	.26	.22	.31	.25	.21	.19
10.0	.35	.27	.21	.34	.26	.21	.32	.25	.20	.30	.24	.20	.29	.23	.19	.17



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:120.2V I:0.4058A P:47.78W PF:0.9795 Freq:60.00Hz Lamp Flux:2641.08x1 lm		
NAME: Maverick	TYPE:--	SERIAL No.:FTS23101101L-03
SPEC.:C32732	DIM.: --	
MFR.: Matteo	SUR.:770mm	

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	.382	.218	.069	.372	.212	.067	.352	.202	.065	.334	.193	.062	.317	.184	.059	
2.0	.336	.184	.056	.326	.180	.055	.309	.172	.053	.292	.164	.051	.277	.157	.049	
3.0	.300	.160	.048	.291	.156	.047	.275	.149	.045	.261	.143	.044	.247	.137	.042	
4.0	.270	.140	.041	.263	.137	.041	.248	.132	.039	.235	.126	.038	.222	.121	.037	
5.0	.246	.125	.036	.239	.123	.036	.226	.118	.035	.214	.113	.034	.203	.108	.033	
6.0	.225	.113	.032	.219	.111	.032	.207	.106	.031	.196	.102	.030	.186	.098	.029	
7.0	.208	.103	.029	.202	.101	.029	.191	.097	.028	.181	.093	.027	.172	.089	.026	
8.0	.193	.094	.026	.187	.092	.026	.178	.089	.025	.169	.085	.025	.160	.082	.024	
9.0	.179	.087	.024	.175	.085	.024	.166	.082	.023	.157	.079	.023	.150	.076	.022	
10.0	.168	.081	.022	.164	.079	.022	.155	.076	.021	.148	.073	.021	.140	.071	.020	

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	.272	.272	.272	.233	.233	.233	.159	.159	.159	.091	.091	.091	.029	.029	.029	
1.0	.268	.238	.211	.229	.204	.182	.157	.140	.126	.090	.081	.073	.029	.026	.024	
2.0	.261	.215	.176	.224	.185	.152	.153	.128	.106	.088	.074	.062	.028	.024	.020	
3.0	.254	.198	.154	.217	.171	.133	.149	.119	.093	.086	.069	.055	.028	.022	.018	
4.0	.246	.185	.139	.211	.160	.121	.145	.112	.085	.084	.065	.050	.027	.021	.017	
5.0	.238	.175	.129	.204	.152	.112	.141	.106	.079	.082	.062	.047	.026	.020	.015	
6.0	.231	.167	.122	.198	.145	.106	.137	.101	.075	.079	.060	.045	.026	.019	.015	
7.0	.223	.161	.117	.192	.139	.102	.133	.098	.072	.077	.057	.043	.025	.019	.014	
8.0	.217	.155	.113	.186	.134	.098	.129	.094	.070	.075	.056	.041	.024	.018	.014	
9.0	.210	.150	.109	.181	.130	.095	.125	.092	.068	.073	.054	.040	.024	.018	.013	
10.0	.204	.146	.107	.176	.127	.093	.122	.089	.066	.071	.053	.040	.023	.017	.013	

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:120.2V I:0.4058A P:47.78W PF:0.9795 Freq:60.00Hz Lamp Flux:2641.08x1 lm										
NAME: Maverick					TYPE:--			SERIAL No.:FTS23101101L-03		
SPEC.:C32732					DIM.: --					
MFR.: Matteo					SUR.:770mm					
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	13.9	15.3	14.3	15.7	16.2	13.9	15.3	14.3	15.7	16.2
3H	16.2	17.6	16.6	18.0	18.5	16.2	17.5	16.6	18.0	18.4
4H	17.5	18.8	17.9	19.2	19.7	17.4	18.7	17.9	19.1	19.6
6H	18.8	20.0	19.3	20.5	21.0	18.7	19.9	19.2	20.4	20.9
8H	19.5	20.7	20.0	21.2	21.7	19.4	20.6	19.9	21.1	21.6
12H	20.3	21.5	20.8	22.0	22.5	20.2	21.4	20.8	21.9	22.4
4H 2H	14.7	16.0	15.1	16.4	16.9	14.7	16.0	15.1	16.4	16.9
3H	17.2	18.4	17.7	18.8	19.4	17.2	18.3	17.7	18.8	19.3
4H	18.6	19.7	19.2	20.2	20.8	18.6	19.6	19.1	20.1	20.7
6H	20.2	21.1	20.7	21.6	22.2	20.1	21.0	20.6	21.6	22.2
8H	21.0	21.9	21.6	22.4	23.0	20.9	21.8	21.5	22.3	23.0
12H	21.9	22.7	22.5	23.3	24.0	21.8	22.7	22.4	23.2	23.9
8H 4H	19.2	20.1	19.7	20.6	21.2	19.1	20.0	19.7	20.6	21.2
6H	21.0	21.7	21.6	22.3	23.0	20.9	21.7	21.5	22.3	22.9
8H	22.0	22.7	22.6	23.3	24.0	21.9	22.6	22.6	23.2	23.9
12H	23.2	23.8	23.8	24.4	25.1	23.1	23.7	23.7	24.3	25.0
12H 4H	19.3	20.1	19.9	20.7	21.3	19.2	20.1	19.8	20.6	21.3
6H	21.2	21.9	21.8	22.5	23.2	21.2	21.8	21.8	22.4	23.1
8H	22.4	22.9	23.0	23.6	24.3	22.3	22.9	22.9	23.5	24.2
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, 2641 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 3.4$)

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:120.2V I:0.4058A P:47.78W PF:0.9795 Freq:60.00Hz Lamp Flux:2641.08x1 lm		
NAME: Maverick	TYPE:--	SERIAL No.:FTS23101101L-03
SPEC.:C32732	DIM.: --	
MFR.: Matteo	SUR.:770mm	

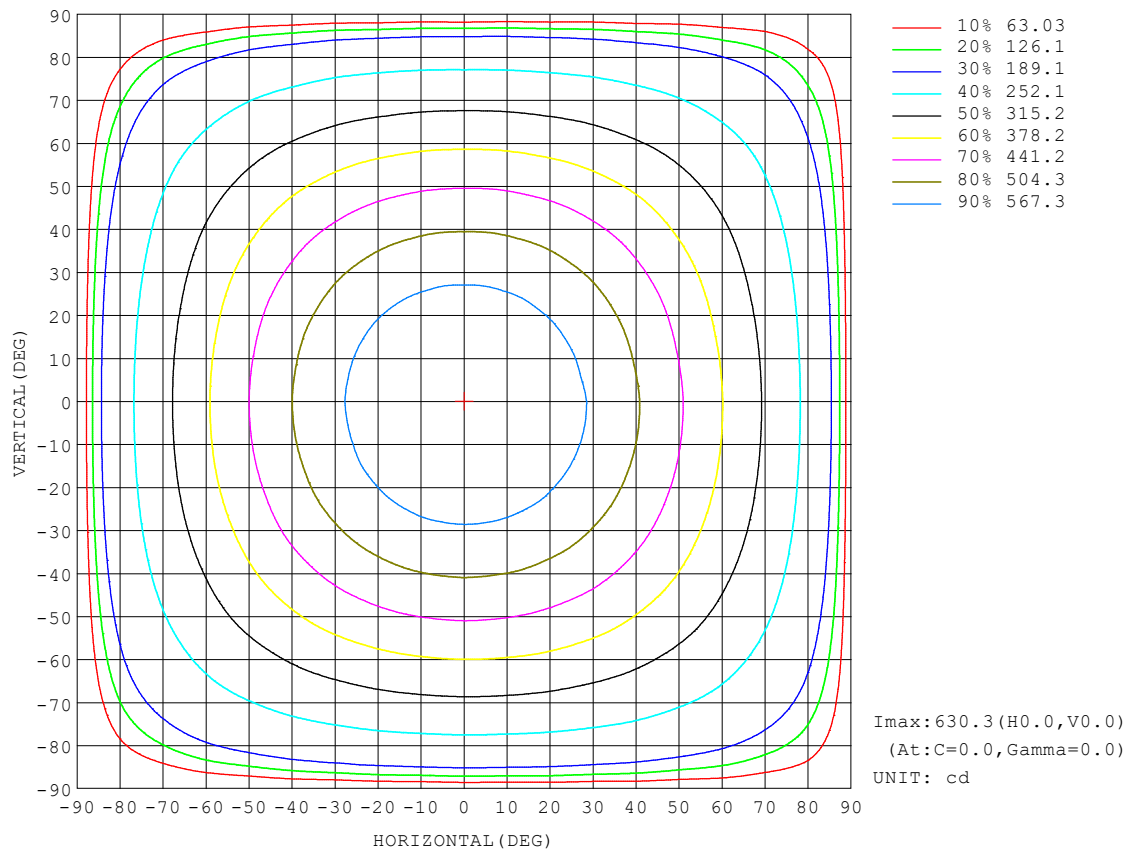
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	50	37	30	49	37	30	47	36	30	23
0.80	59	46	38	58	46	38	55	44	37	30
1.00	67	54	46	65	53	46	62	54	45	36
1.25	74	62	53	72	61	53	68	58	51	42
1.50	79	67	59	77	66	58	73	63	56	47
2.00	87	76	68	84	74	67	79	71	64	54
2.50	91	81	74	88	79	72	83	75	69	58
3.00	95	86	79	92	84	77	86	79	74	62
4.00	100	92	86	96	89	84	90	84	80	67
5.00	102	96	91	99	93	88	92	88	84	71
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:120.2V I:0.4058A P:47.78W PF:0.9795 Freq:60.00Hz Lamp Flux:2641.08x1 lm		
NAME: Maverick	TYPE:--	SERIAL No.:FTS23101101L-03
SPEC.:C32732	DIM.: --	
MFR.: Matteo	SUR.:770mm	

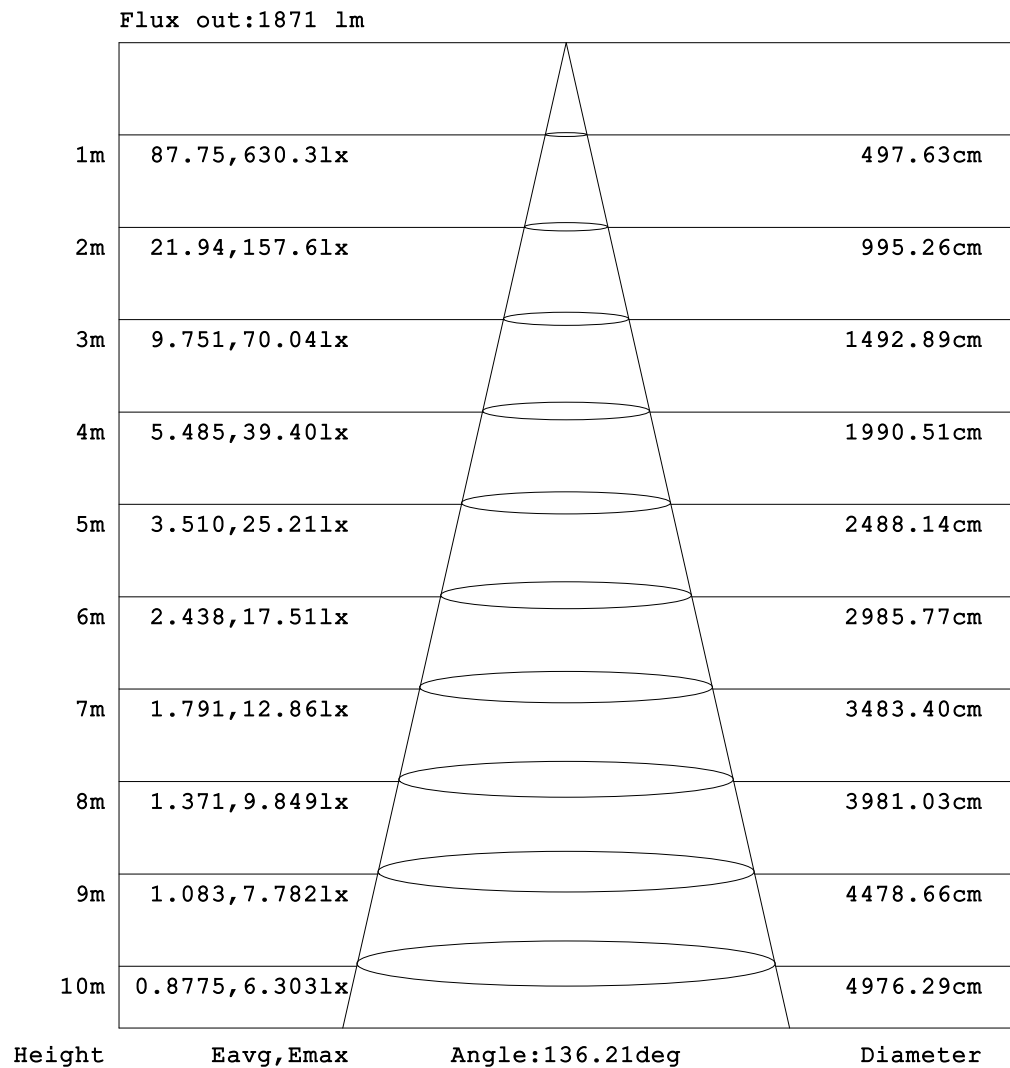


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-10-11

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:120.2V I:0.4058A P:47.78W PF:0.9795 Freq:60.00Hz Lamp Flux:2641.08x1 lm		
NAME: Maverick	TYPE:--	SERIAL No.:FTS23101101L-03
SPEC.:C32732	DIM.: --	
MFR.: Matteo	SUR.:770mm	



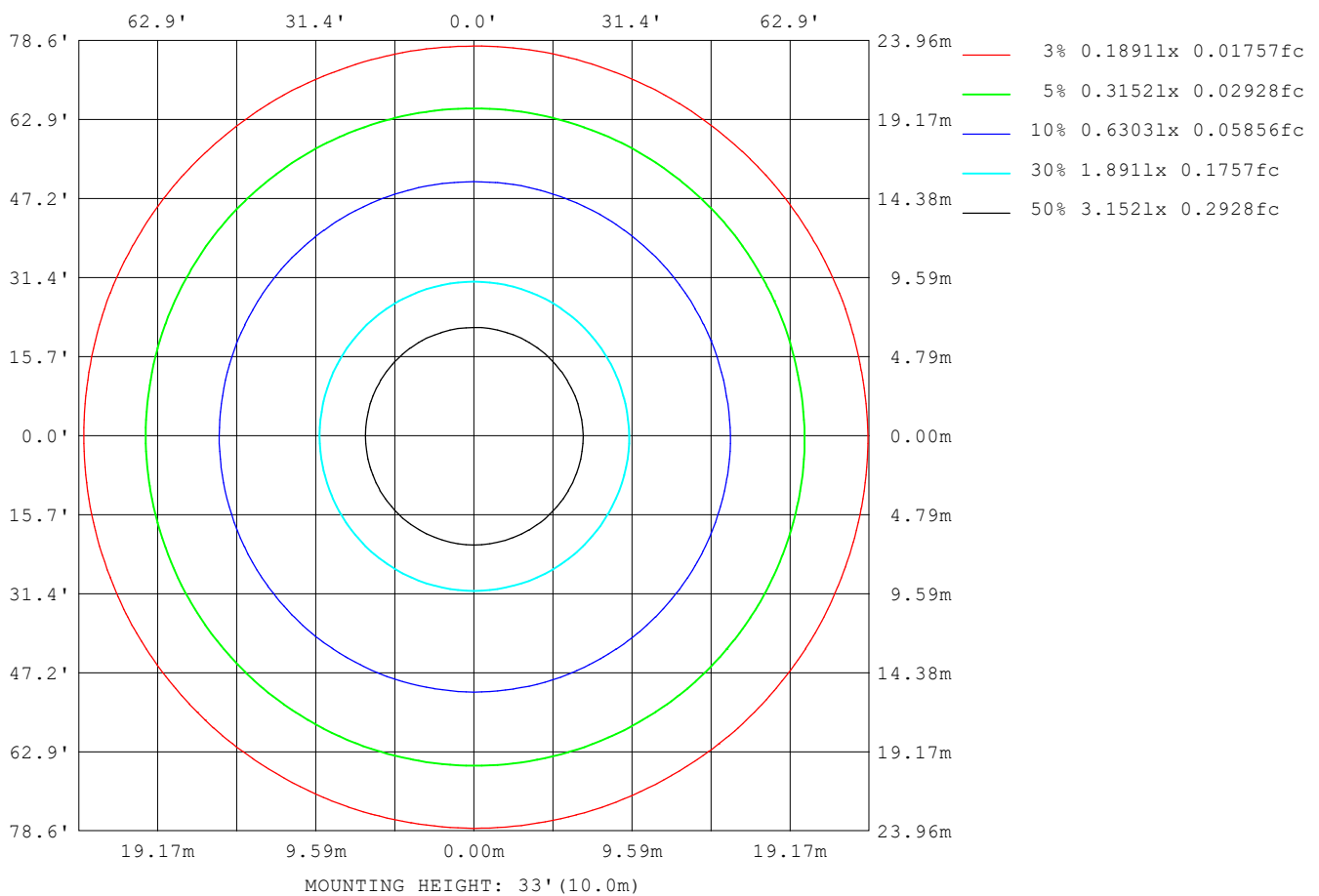
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

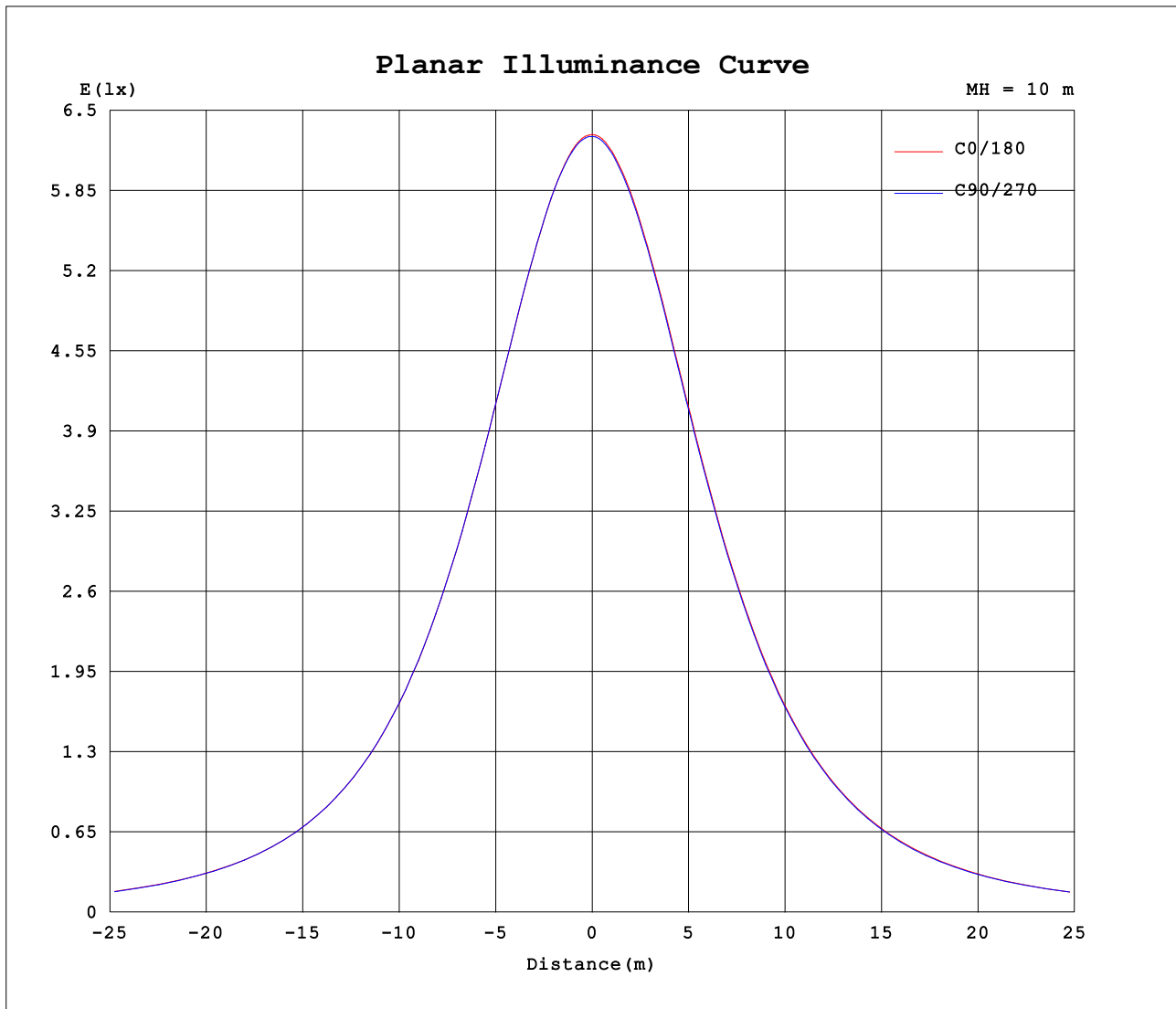
Test:U:120.2V I:0.4058A P:47.78W PF:0.9795 Freq:60.00Hz Lamp Flux:2641.08x1 lm		
NAME: Maverick	TYPE:--	SERIAL No.:FTS23101101L-03
SPEC.:C32732	DIM.: --	
MFR.: Matteo	SUR.:770mm	



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: ---