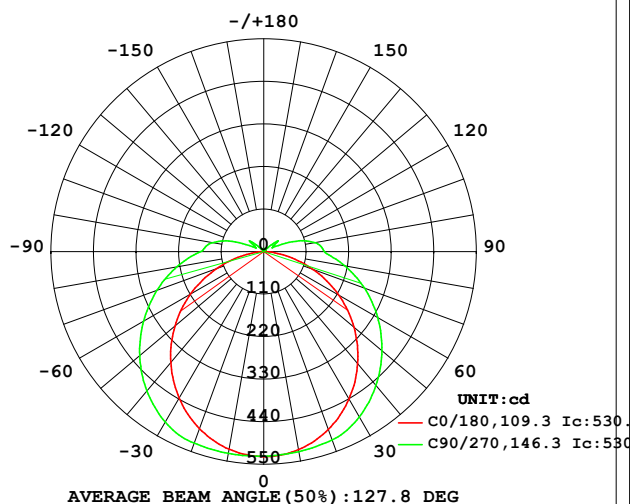


## LUMINAIRE PHOTOMETRIC TEST REPORT

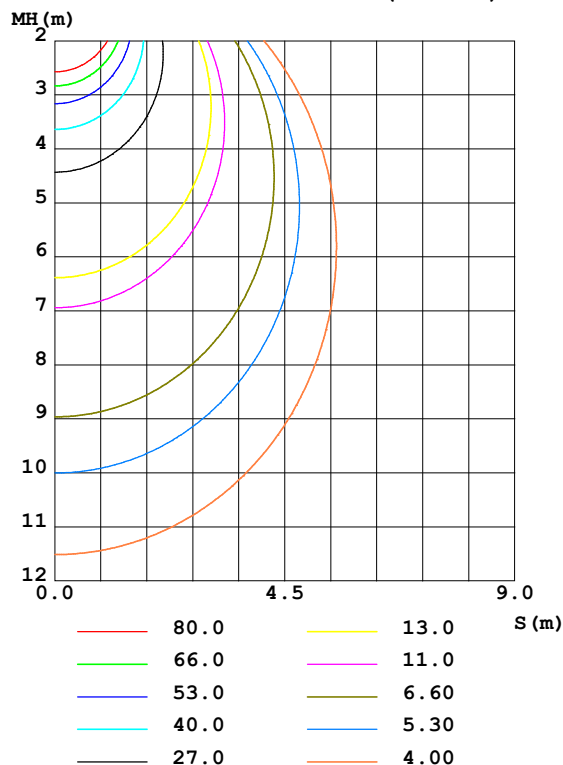
Test:U:120.1V I:0.3121A P:34.49W PF:0.9199 Freq:60.00Hz Lamp Flux:2096.34x1 lm		
NAME: Jensen	TYPE:--	SERIAL No.:FTS23101004L-02
SPEC.:S07028	DIM.: --	
MFR.: Matteo	SUR.:420mm	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 60.78 lm/W
MODEL	--	I <sub>max</sub> (cd)	530.4	S/MH (C0/180)	1.23	
NOMINAL POWER (W)	--	LOR (%)	100.0	S/MH (C90/270)	1.43	
RATED VOLTAGE (V)	--	TOTAL FLUX (lm)	2096.3	η UP, DN (C0-180)	5.0, 44.5	
NOMINAL FLUX (lm)	2096.34	CIE CLASS	DIRECT	η UP, DN (C180-360)	4.9, 45.7	
LAMPS INSIDE	1	η up (%)	9.8	CIBSE SHR NOM	1.50	
TEST VOLTAGE (V)	--	η down (%)	90.2	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: 2023-10-10

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	519.8	521.9	525.0	521.4	518.8	524.4	529.8	525.5	0- 10	50.26	50.26	2.4, 2.4
20	489.1	503.8	517.9	501.6	487.1	507.4	526.8	509.1	10- 20	145.8	196.1	9.35, 9.35
30	440.7	474.5	493.9	471.3	437.7	479.6	509.3	481.8	20- 30	226.8	422.9	20.2, 20.2
40	378.2	426.6	451.6	423.1	374.2	433.9	470.0	436.2	30- 40	282.2	705.0	33.6, 33.6
50	304.8	366.0	399.2	361.7	300.1	372.9	418.8	375.7	40- 50	305.2	1010	48.2, 48.2
60	223.3	298.5	340.1	293.8	217.9	304.6	358.6	307.2	50- 60	295.3	1306	62.3, 62.3
70	136.4	229.1	277.3	223.9	130.2	233.1	294.1	235.8	60- 70	256.7	1562	74.5, 74.5
80	51.30	161.3	212.8	155.6	45.52	163.9	227.8	166.5	70- 80	197.2	1759	83.9, 83.9
90	1.733	105.4	157.1	101.5	1.113	103.5	163.3	105.1	80- 90	131.1	1890	90.2, 90.2
100	1.912	81.99	134.8	76.31	1.442	74.09	134.3	78.80	90-100	93.32	1984	94.6, 94.6
110	2.454	33.45	70.40	25.41	1.913	24.64	68.31	30.35	100-110	56.85	2041	97.3, 97.3
120	3.039	32.76	32.65	25.66	2.457	26.84	30.99	31.00	110-120	22.94	2064	98.4, 98.4
130	4.024	9.645	34.51	5.755	3.368	5.306	35.31	8.183	120-130	18.12	2082	99.3, 99.3
140	4.024	7.484	4.925	5.354	3.426	4.510	4.208	6.397	130-140	6.402	2088	99.6, 99.6
150	4.395	7.927	5.638	6.284	3.969	5.588	4.918	7.012	140-150	3.607	2092	99.8, 99.8
160	4.695	5.473	4.838	5.240	4.396	4.788	4.581	5.266	150-160	2.680	2094	99.9, 99.9
170	4.852	5.150	5.666	5.058	4.752	5.231	6.067	5.801	160-170	1.480	2096	100, 100
180	4.924	4.966	4.966	4.988	4.909	4.938	4.952	4.981	170-180	0.4905	2096	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 856.84 lm

%lum = 40.9%

%lamp = 40.9%

Conical surface Flux(120deg): 1305.5 lm

%lum = 62.3%

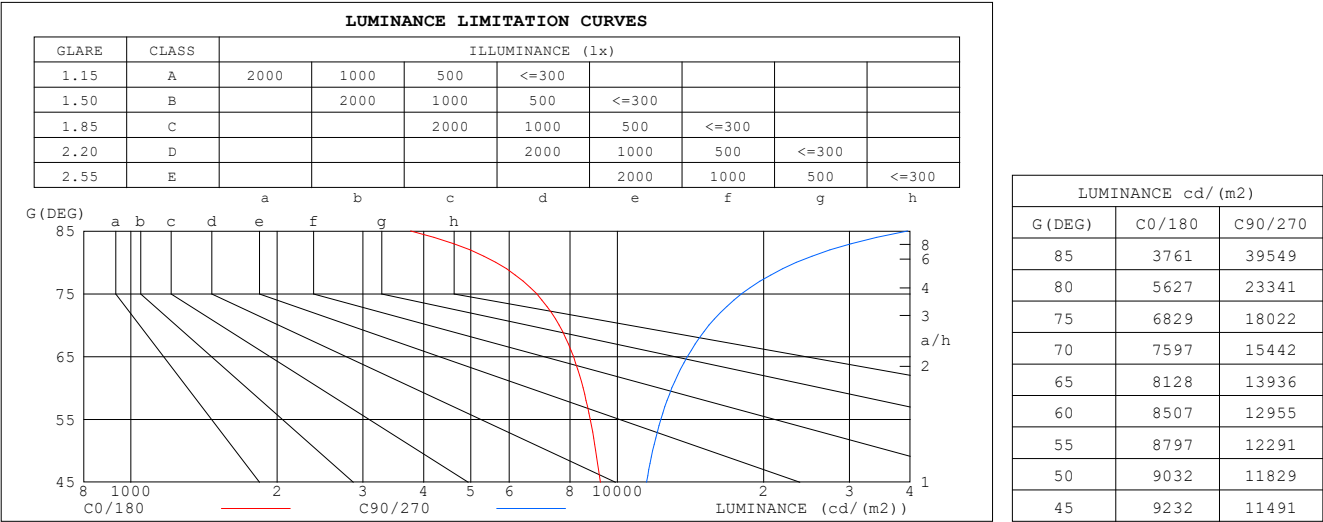
%lamp = 62.3%

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

$\gamma$  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:0.3121A P:34.49W PF:0.9199 Freq:60.00Hz Lamp Flux:2096.34x1 lm		
NAME: Jensen	TYPE:--	SERIAL No.:FTS23101004L-02
SPEC.:S07028	DIM.: --	
MFR.: Matteo	SUR.:420mm	



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

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: ---

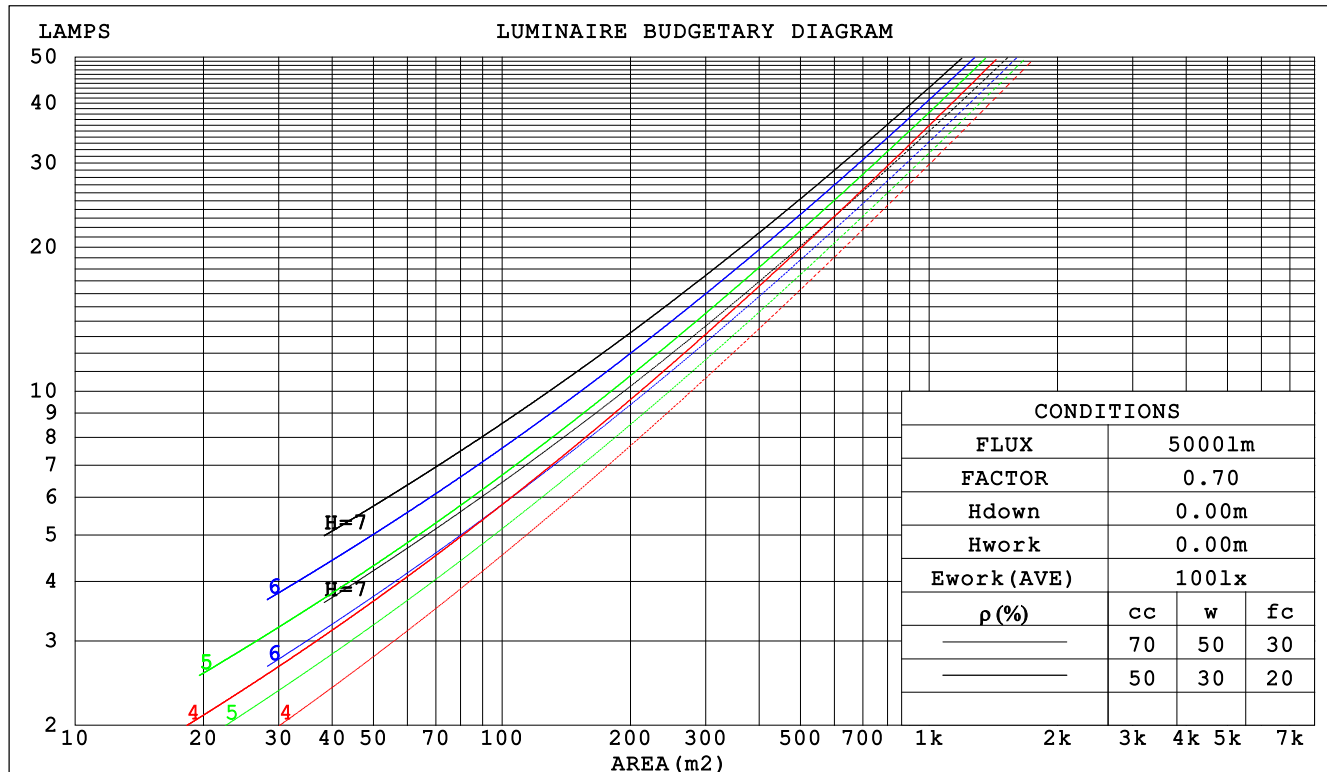
## GONIOPHOTOMETERS SYSTEM TEST REPORT

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## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.1V I:0.3121A P:34.49W PF:0.9199 Freq:60.00Hz Lamp Flux:2096.34x1 lm		
NAME: Jensen	TYPE:--	SERIAL No.:FTS23101004L-02
SPEC.:S07028	DIM.: --	
MFR.: Matteo	SUR.:420mm	

$\rho_{cc}$	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	.99	.99	.99	.93	.93	.93	.90
1.0	.98	.93	.88	.95	.90	.86	.89	.85	.82	.83	.80	.77	.78	.76	.73	.70
2.0	.84	.77	.70	.82	.74	.69	.76	.70	.65	.71	.67	.62	.67	.63	.60	.57
3.0	.73	.64	.57	.71	.63	.56	.66	.59	.54	.62	.56	.52	.58	.54	.49	.47
4.0	.64	.55	.48	.62	.54	.47	.59	.51	.45	.55	.49	.44	.52	.46	.42	.39
5.0	.57	.48	.41	.56	.47	.40	.52	.45	.39	.49	.43	.37	.46	.41	.36	.34
6.0	.51	.42	.35	.50	.41	.35	.47	.39	.34	.44	.38	.32	.42	.36	.31	.29
7.0	.46	.37	.31	.45	.36	.30	.43	.35	.29	.40	.34	.29	.38	.32	.28	.25
8.0	.42	.33	.27	.41	.33	.27	.39	.31	.26	.37	.30	.25	.35	.29	.25	.23
9.0	.39	.30	.24	.38	.30	.24	.36	.28	.23	.34	.27	.23	.32	.26	.22	.20
10.0	.35	.27	.22	.35	.27	.22	.33	.26	.21	.31	.25	.21	.30	.24	.20	.18



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

$\gamma$  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:0.3121A P:34.49W PF:0.9199 Freq:60.00Hz Lamp Flux:2096.34x1 lm		
NAME: <b>Jensen</b>	TYPE:--	SERIAL No.:FTS23101004L-02
SPEC.:S07028	DIM.: --	
MFR.: Matteo	SUR.:420mm	

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	.372	.211	.067	.361	.206	.065	.342	.196	.063	.325	.187	.060	.309	.179	.058		
2.0	.328	.180	.055	.319	.175	.054	.301	.168	.052	.285	.160	.050	.271	.153	.048		
3.0	.294	.156	.047	.285	.153	.046	.270	.146	.044	.256	.140	.043	.242	.134	.042		
4.0	.266	.138	.041	.258	.135	.040	.244	.130	.039	.231	.124	.037	.219	.119	.036		
5.0	.242	.123	.036	.236	.121	.035	.223	.116	.034	.211	.112	.033	.201	.107	.032		
6.0	.223	.112	.032	.217	.109	.031	.205	.105	.031	.195	.101	.030	.185	.097	.029		
7.0	.206	.102	.029	.200	.100	.028	.190	.096	.028	.180	.092	.027	.171	.089	.026		
8.0	.191	.093	.026	.186	.092	.026	.177	.088	.025	.168	.085	.025	.159	.082	.024		
9.0	.178	.086	.024	.174	.085	.024	.165	.082	.023	.157	.079	.023	.149	.076	.022		
10.0	.167	.080	.022	.163	.079	.022	.155	.076	.021	.147	.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	.265	.265	.265	.227	.227	.227	.155	.155	.155	.089	.089	.089	.028	.028	.028	
1.0	.260	.231	.205	.222	.198	.176	.152	.136	.122	.088	.079	.071	.028	.025	.023	
2.0	.253	.208	.170	.217	.179	.147	.148	.124	.102	.086	.072	.060	.027	.023	.020	
3.0	.245	.191	.147	.210	.165	.128	.144	.114	.090	.083	.067	.053	.027	.022	.017	
4.0	.238	.178	.133	.204	.154	.115	.140	.107	.081	.081	.063	.048	.026	.020	.016	
5.0	.230	.168	.122	.197	.145	.106	.136	.102	.075	.079	.060	.045	.025	.019	.015	
6.0	.222	.160	.115	.191	.139	.100	.132	.097	.071	.077	.057	.042	.025	.019	.014	
7.0	.215	.153	.110	.185	.133	.096	.128	.093	.068	.074	.055	.040	.024	.018	.013	
8.0	.209	.148	.106	.180	.128	.092	.124	.090	.065	.072	.053	.039	.023	.017	.013	
9.0	.202	.143	.102	.174	.124	.089	.121	.087	.063	.070	.051	.038	.023	.017	.013	
10.0	.196	.138	.100	.169	.120	.087	.117	.085	.062	.069	.050	.037	.022	.016	.012	

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

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:0.3121A P:34.49W PF:0.9199 Freq:60.00Hz Lamp Flux:2096.34x1 lm											
NAME: Jensen					TYPE:--			SERIAL No.:FTS23101004L-02			
SPEC.:S07028					DIM.: --						
MFR.: Matteo					SUR.:420mm						
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		19.7	21.1	20.1	21.5	21.9	21.3	22.8	21.7	23.2	23.6
	3H	21.2	22.5	21.6	22.9	23.4	23.7	25.1	24.1	25.5	25.9
	4H	21.8	23.1	22.2	23.5	23.9	25.0	26.3	25.4	26.7	27.2
	6H	22.1	23.4	22.6	23.8	24.3	26.3	27.5	26.8	28.0	28.5
	8H	22.2	23.4	22.7	23.9	24.4	27.1	28.2	27.5	28.7	29.2
	12H	22.3	23.4	22.8	23.9	24.4	27.9	29.0	28.4	29.5	30.0
4H	2H	20.7	22.0	21.2	22.4	22.9	21.9	23.2	22.4	23.6	24.1
	3H	22.5	23.6	23.0	24.1	24.6	24.5	25.7	25.0	26.1	26.6
	4H	23.2	24.3	23.8	24.8	25.3	26.0	27.0	26.5	27.5	28.1
	6H	23.8	24.7	24.3	25.3	25.8	27.6	28.5	28.1	29.0	29.6
	8H	24.0	24.8	24.5	25.4	26.0	28.4	29.3	29.0	29.8	30.4
	12H	24.1	24.9	24.6	25.4	26.0	29.4	30.2	29.9	30.7	31.4
8H	4H	24.1	25.0	24.7	25.5	26.1	26.3	27.2	26.9	27.7	28.3
	6H	25.0	25.7	25.6	26.3	27.0	28.2	28.9	28.8	29.5	30.1
	8H	25.4	26.0	26.0	26.6	27.3	29.2	29.9	29.8	30.5	31.2
	12H	25.6	26.2	26.3	26.8	27.5	30.5	31.0	31.1	31.7	32.3
12H	4H	24.3	25.1	24.9	25.7	26.3	26.3	27.2	26.9	27.7	28.3
	6H	25.4	26.1	26.1	26.7	27.4	28.3	29.0	28.9	29.5	30.2
	8H	26.0	26.6	26.6	27.2	27.9	29.5	30.0	30.1	30.6	31.3
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 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, 2096 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 2.6$ )

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

$\gamma$  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:0.3121A P:34.49W PF:0.9199 Freq:60.00Hz Lamp Flux:2096.34x1 lm		
NAME: <b>Jensen</b>	TYPE:--	SERIAL No.:FTS23101004L-02
SPEC.:S07028	DIM.: --	
MFR.: Matteo	SUR.:420mm	

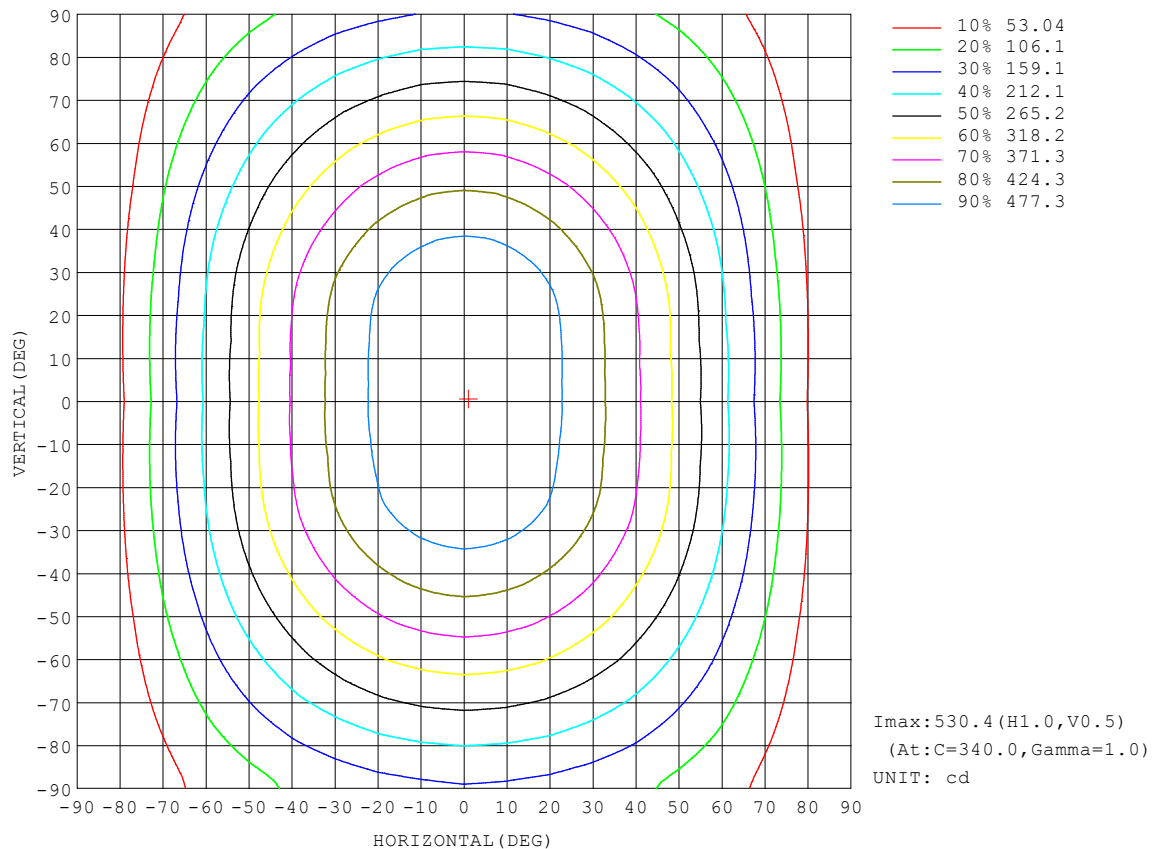
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	51	39	31	50	38	31	48	38	31	24
0.80	60	48	40	59	47	39	57	46	39	31
1.00	68	56	48	67	55	47	64	56	46	38
1.25	75	63	55	73	62	54	70	60	53	44
1.50	80	69	60	78	67	60	74	65	58	49
2.00	87	77	69	85	75	68	80	72	66	56
2.50	92	82	75	89	80	73	84	77	71	60
3.00	95	87	80	93	85	78	87	81	75	64
4.00	100	93	86	97	90	85	91	86	81	69
5.00	103	96	91	100	94	89	93	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:2023-10-10

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:0.3121A P:34.49W PF:0.9199 Freq:60.00Hz Lamp Flux:2096.34x1 lm		
NAME: <b>Jensen</b>	TYPE:--	SERIAL No.:FTS23101004L-02
SPEC.:S07028	DIM.: --	
MFR.: Matteo	SUR.:420mm	



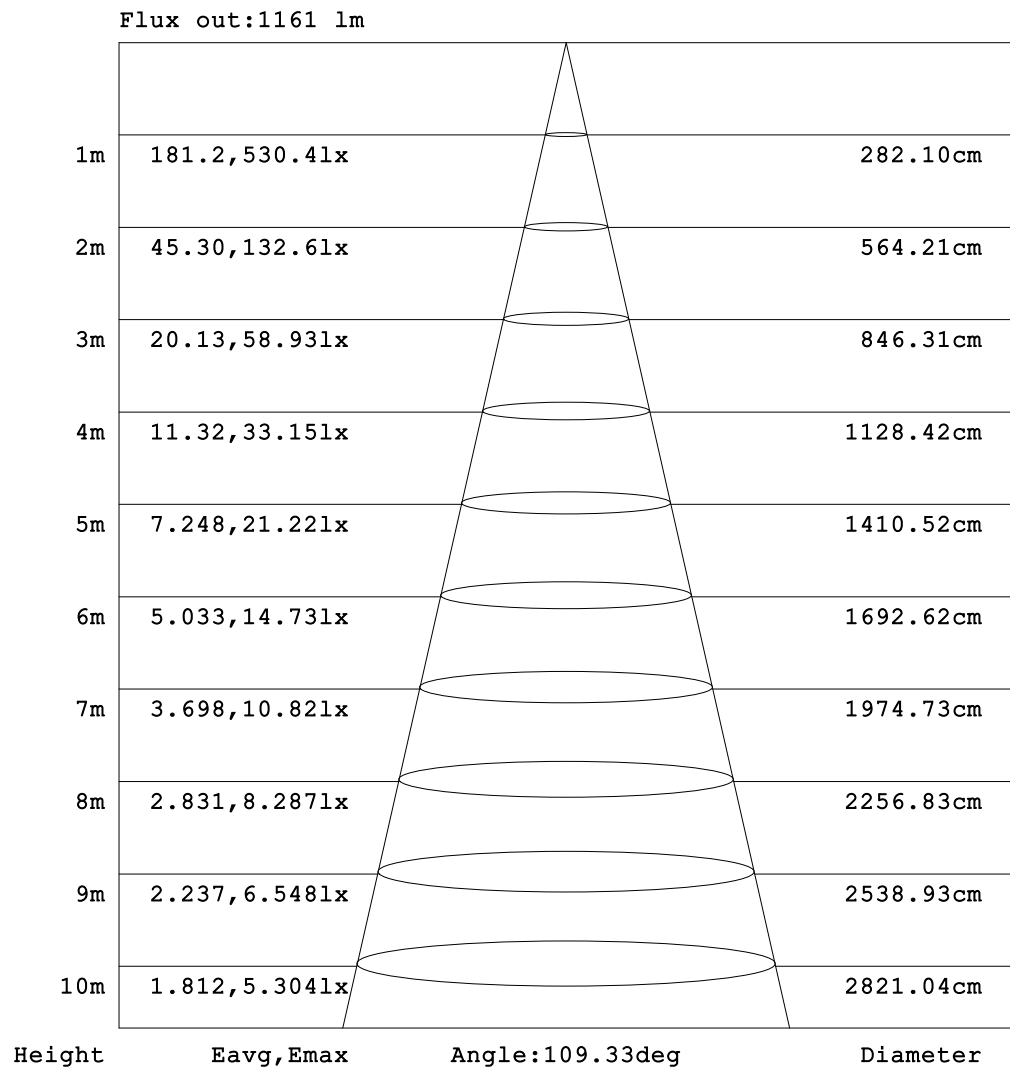
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason Huang  
Test Date:2023-10-10

$\gamma$  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:0.3121A P:34.49W PF:0.9199 Freq:60.00Hz Lamp Flux:2096.34x1 lm		
NAME: <b>Jensen</b>	TYPE:--	SERIAL No.:FTS23101004L-02
SPEC.:S07028	DIM.: --	
MFR.: Matteo	SUR.:420mm	



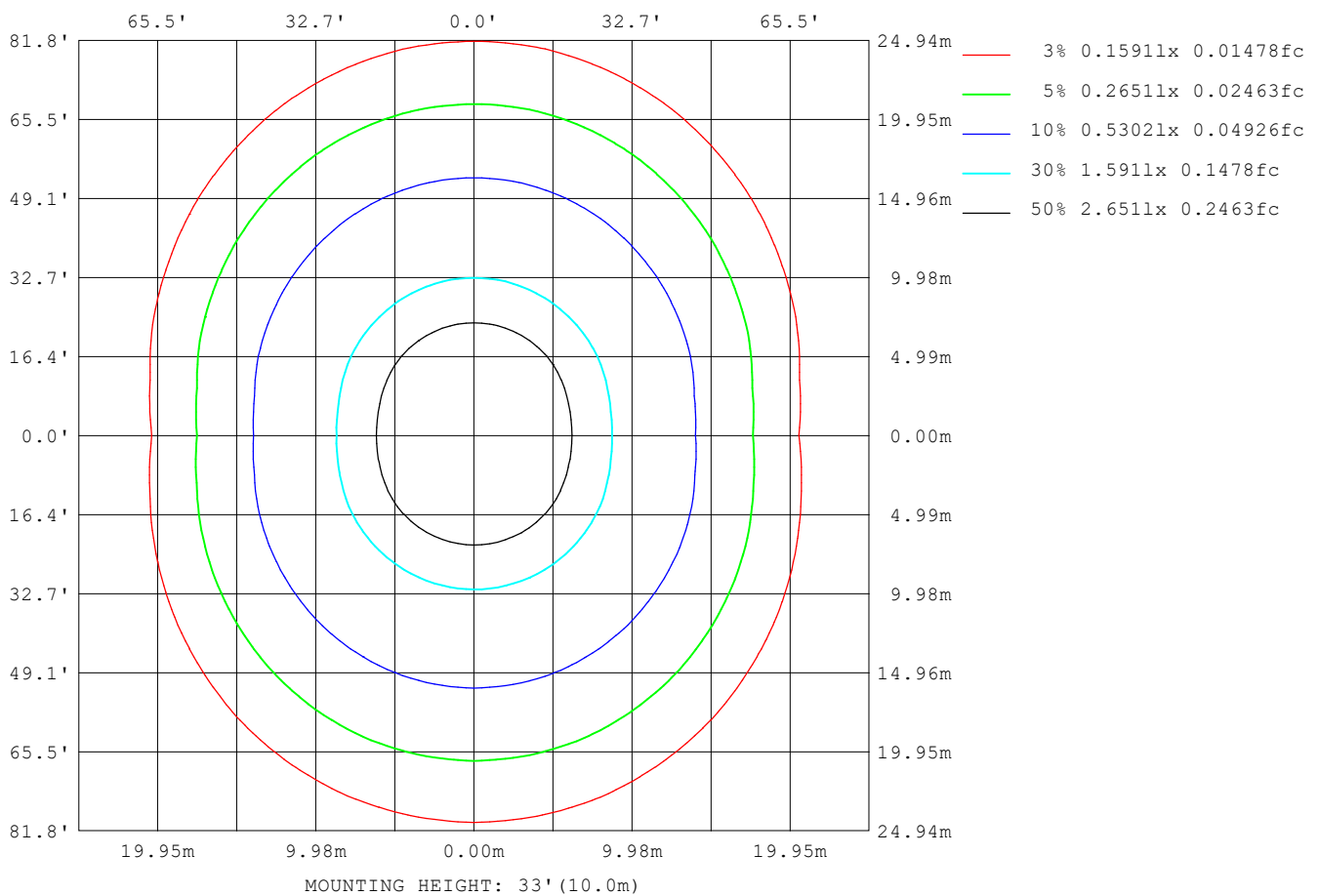
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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

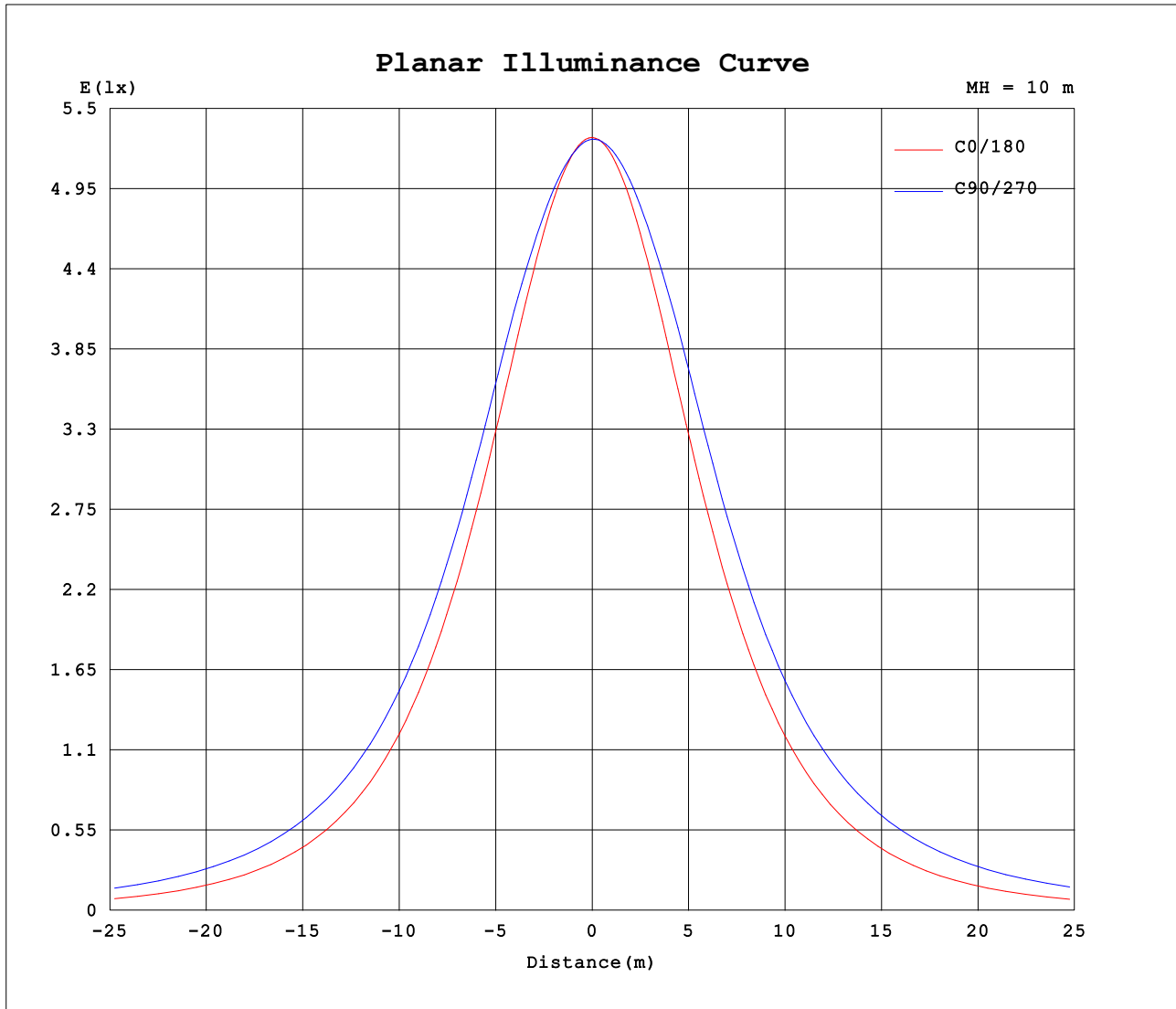
Test:U:120.1V I:0.3121A P:34.49W PF:0.9199 Freq:60.00Hz Lamp Flux:2096.34x1 lm		
NAME: Jensen	TYPE:--	SERIAL No.:FTS23101004L-02
SPEC.:S07028	DIM.: --	
MFR.: Matteo	SUR.:420mm	



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

$\gamma$  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: 2023-10-10

$\gamma$  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: ---