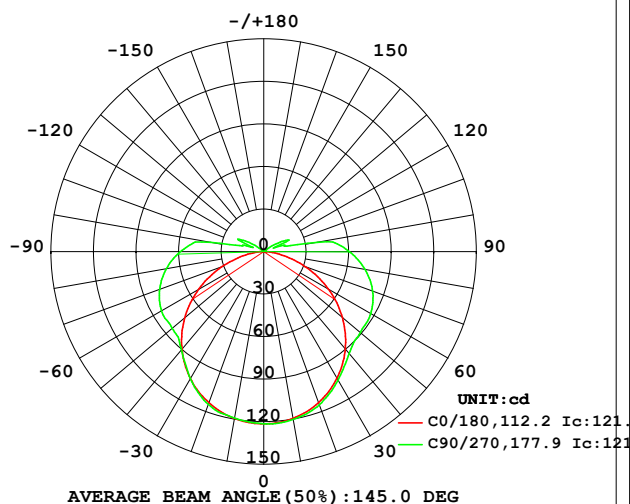


LUMINAIRE PHOTOMETRIC TEST REPORT

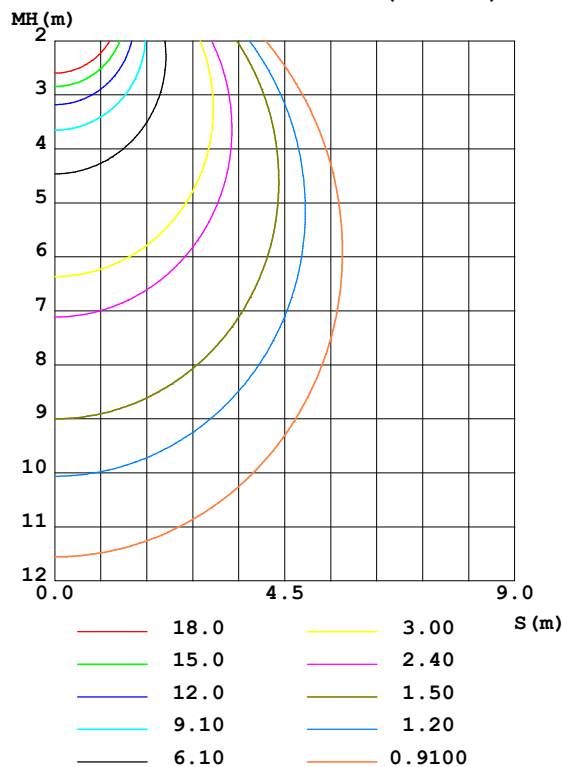
Test:U:120.07V I:0.151A P:16.51W PF:0.9106 Freq:60.00Hz Lamp Flux:503.675x1 lm		
NAME: Pendent lamp	TYPE:--	SERIAL No.:FTS23031602L-01
SPEC.:S09918	DIM.: --	
MFR.: YiZHI	SUR.:455mm	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 30.51 lm/W
MODEL	--	I _{max} (cd)	121.7	S/MH(C0/180)	1.27	
NOMINAL POWER(W)	--	LOR(%)	100.0	S/MH(C90/270)	1.26	
RATED VOLTAGE(V)	--	TOTAL FLUX(lm)	503.68	η UP,DN(C0-180)	5.5,45.2	
NOMINAL FLUX(lm)	503.675	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	5.4,43.9	
LAMPS INSIDE	1	η up(%)	10.9	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	--	η down(%)	89.1	CIBSE SHR MAX	1.35	

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:2023-03-16

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	119.4	120.0	120.2	120.1	119.5	119.1	119.2	119.1	0- 10	11.51	11.51	2.28,2.28
20	113.4	114.4	114.9	114.5	113.4	113.8	114.7	113.6	10- 20	33.12	44.63	8.86,8.86
30	103.3	104.5	104.8	104.8	103.5	104.3	103.4	104.0	20- 30	50.49	95.11	18.9,18.9
40	89.56	91.09	93.89	91.29	89.82	89.82	90.52	89.50	30- 40	61.06	156.2	31,31
50	72.46	77.60	89.07	77.44	72.78	74.62	84.32	74.30	40- 50	64.93	221.1	43.9,43.9
60	52.58	69.01	87.28	68.24	52.91	64.99	83.40	64.65	50- 60	65.09	286.2	56.8,56.8
70	31.18	62.34	81.85	61.49	31.50	59.08	78.16	58.73	60- 70	62.27	348.5	69.2,69.2
80	11.28	52.78	72.47	51.92	11.48	50.38	69.68	49.95	70- 80	55.42	403.9	80.2,80.2
90	1.001	40.55	60.34	39.64	0.7505	39.21	58.70	38.80	80- 90	45.01	448.9	89.1,89.1
100	0.6698	17.50	38.75	15.17	0.3961	15.51	38.23	17.43	90-100	31.47	480.4	95.4,95.4
110	0.7783	11.64	8.815	9.804	0.4646	10.94	9.776	11.89	100-110	10.95	491.3	97.5,97.5
120	0.9012	2.358	13.58	1.986	0.5739	2.200	15.08	2.215	110-120	7.432	498.7	99,99
130	1.010	1.154	1.470	1.099	0.6829	0.8948	1.226	0.9768	120-130	2.453	501.2	99.5,99.5
140	1.093	1.161	1.188	1.168	0.7923	0.9629	1.079	0.9834	130-140	0.7969	502.0	99.7,99.7
150	1.202	1.216	1.243	1.209	0.9430	1.065	1.147	1.065	140-150	0.6871	502.7	99.8,99.8
160	1.257	1.270	1.270	1.263	1.079	1.134	1.202	1.147	150-160	0.5398	503.2	99.9,99.9
170	1.297	1.284	1.284	1.291	1.202	1.209	1.243	1.229	160-170	0.3481	503.6	100,100
180	1.284	1.270	1.284	1.284	1.257	1.270	1.284	1.284	170-180	0.1209	503.7	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 188.47 lm

%lum = 37.4%

%lamp = 37.4%

Conical surface Flux(120deg): 286.19 lm

%lum = 56.8%

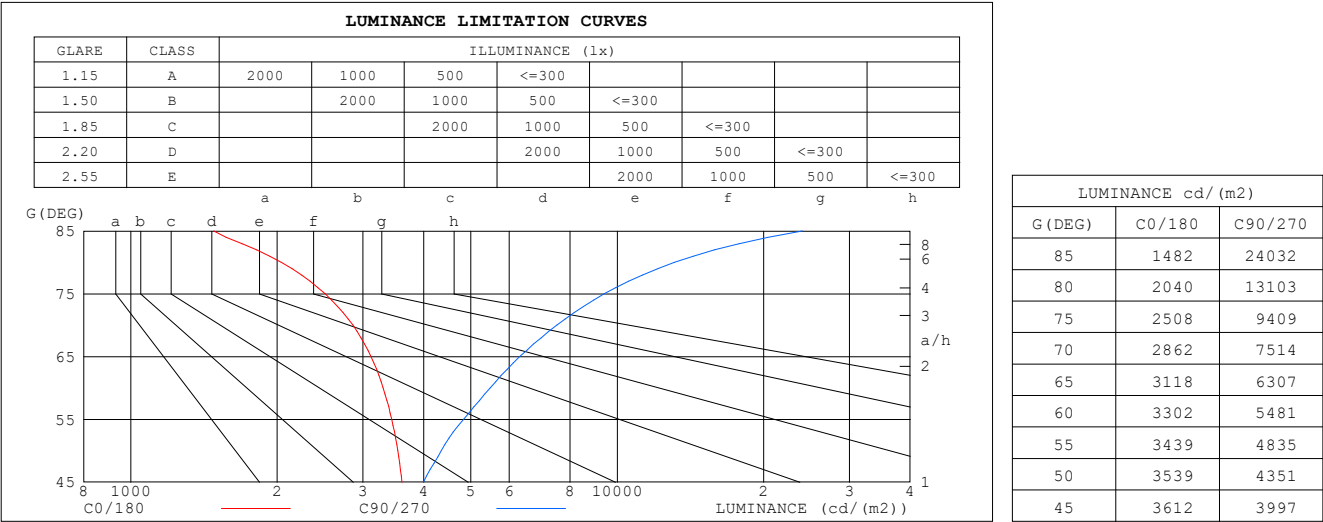
%lamp = 56.8%

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-03-16

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:120.07V I:0.151A P:16.51W PF:0.9106 Freq:60.00Hz Lamp Flux:503.675x1 lm		
NAME: Pendent lamp	TYPE:--	SERIAL No.:FTS23031602L-01
SPEC.:S09918	DIM.: --	
MFR.: YiZHI	SUR.:455mm	



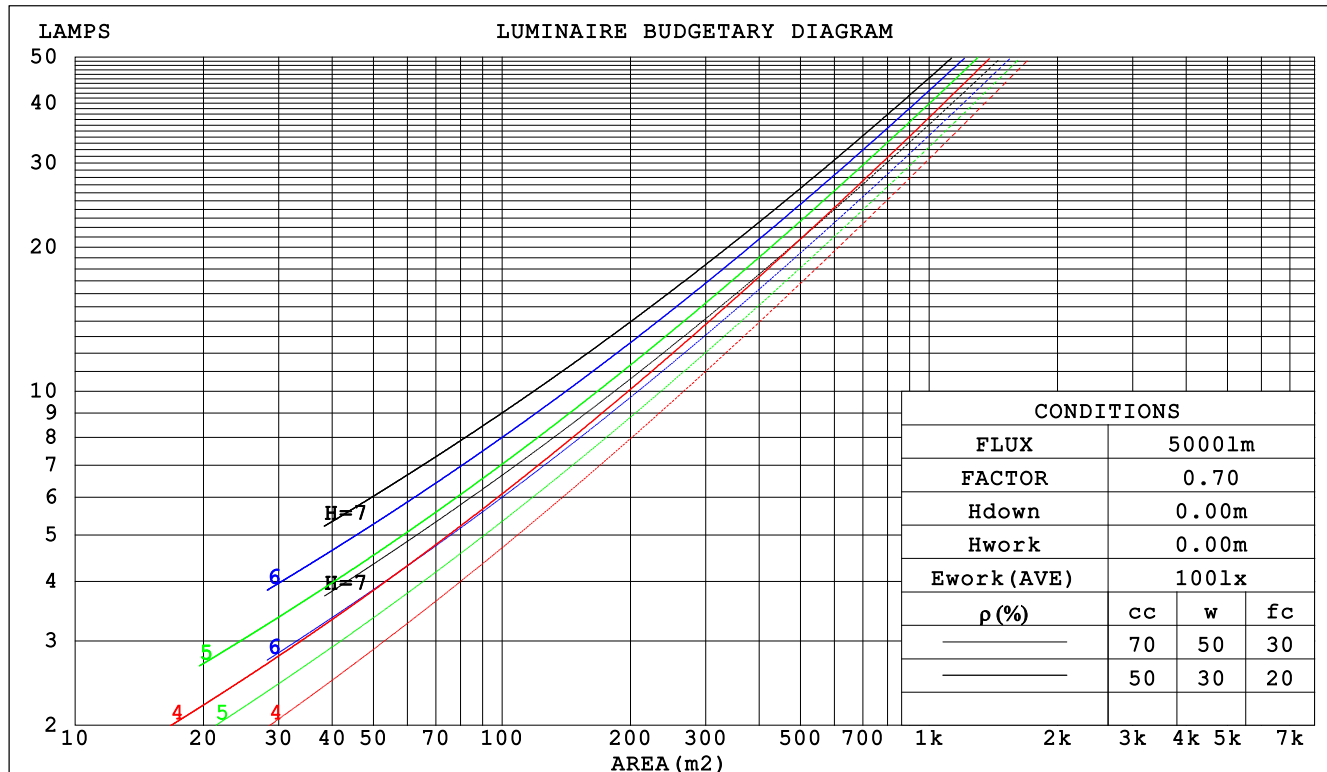
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-03-16

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:120.07V I:0.151A P:16.51W PF:0.9106 Freq:60.00Hz Lamp Flux:503.675x1 lm		
NAME: Pendent lamp	TYPE:--	SERIAL No.:FTS23031602L-01
SPEC.:S09918	DIM.: --	
MFR.: YiZHI	SUR.:455mm	

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	1.12	1.12	1.12	1.05	1.05	1.05	.98	.98	.98	.92	.92	.92	.89
1.0	.96	.91	.85	.93	.88	.83	.86	.82	.78	.80	.77	.74	.75	.72	.70	.67
2.0	.82	.74	.67	.79	.72	.65	.74	.67	.62	.69	.63	.59	.64	.60	.56	.53
3.0	.71	.62	.54	.69	.60	.53	.64	.57	.51	.60	.53	.48	.56	.50	.46	.43
4.0	.62	.53	.45	.60	.51	.44	.56	.49	.42	.53	.46	.41	.49	.44	.39	.36
5.0	.55	.46	.38	.54	.44	.38	.50	.42	.36	.47	.40	.35	.44	.38	.33	.31
6.0	.50	.40	.33	.48	.39	.33	.45	.37	.31	.42	.36	.30	.40	.34	.29	.27
7.0	.45	.36	.29	.43	.35	.29	.41	.33	.28	.39	.32	.27	.36	.30	.26	.23
8.0	.41	.32	.26	.40	.31	.25	.37	.30	.25	.35	.29	.24	.33	.27	.23	.21
9.0	.37	.29	.23	.36	.28	.23	.34	.27	.22	.32	.26	.21	.31	.25	.21	.19
10.0	.34	.26	.21	.34	.26	.21	.32	.25	.20	.30	.24	.19	.29	.23	.19	.17



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-03-16

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:120.07V I:0.151A P:16.51W PF:0.9106 Freq:60.00Hz Lamp Flux:503.675x1 lm		
NAME: Pendent lamp	TYPE:--	SERIAL No.:FTS23031602L-01
SPEC.:S09918	DIM.: --	
MFR.: YiZHI	SUR.:455mm	

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	.407	.232	.073	.397	.226	.072	.377	.216	.069	.358	.207	.066	.341	.198	.064	
2.0	.348	.191	.058	.338	.186	.057	.320	.178	.055	.304	.170	.053	.288	.163	.051	
3.0	.307	.163	.049	.298	.160	.048	.282	.153	.046	.267	.146	.045	.253	.140	.043	
4.0	.274	.143	.042	.267	.140	.041	.252	.134	.040	.239	.128	.039	.226	.123	.037	
5.0	.248	.127	.037	.242	.124	.036	.228	.119	.035	.216	.114	.034	.205	.109	.033	
6.0	.227	.114	.033	.221	.112	.032	.209	.107	.031	.198	.103	.030	.187	.099	.029	
7.0	.209	.103	.029	.203	.101	.029	.192	.097	.028	.182	.094	.027	.173	.090	.026	
8.0	.193	.095	.027	.188	.093	.026	.178	.089	.025	.169	.086	.025	.161	.082	.024	
9.0	.180	.087	.024	.175	.085	.024	.166	.082	.023	.158	.079	.023	.150	.076	.022	
10.0	.168	.081	.022	.164	.079	.022	.156	.076	.021	.148	.073	.021	.141	.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	.273	.273	.273	.234	.234	.234	.159	.159	.159	.092	.092	.092	.029	.029	.029		
1.0	.271	.239	.210	.232	.205	.181	.158	.141	.125	.091	.082	.073	.029	.026	.024		
2.0	.264	.216	.175	.226	.186	.152	.155	.128	.106	.089	.075	.062	.029	.024	.020		
3.0	.256	.199	.154	.220	.172	.133	.151	.119	.093	.087	.070	.055	.028	.023	.018		
4.0	.248	.187	.140	.213	.161	.121	.146	.112	.085	.085	.066	.050	.027	.021	.017		
5.0	.240	.177	.130	.206	.153	.113	.142	.107	.080	.082	.063	.047	.027	.020	.016		
6.0	.232	.168	.123	.200	.146	.107	.138	.102	.076	.080	.060	.045	.026	.020	.015		
7.0	.225	.162	.118	.193	.140	.102	.134	.098	.073	.078	.058	.043	.025	.019	.014		
8.0	.218	.156	.114	.188	.135	.099	.130	.095	.070	.076	.056	.042	.024	.018	.014		
9.0	.212	.151	.111	.182	.131	.096	.126	.092	.068	.074	.054	.041	.024	.018	.014		
10.0	.206	.147	.108	.177	.128	.094	.123	.090	.067	.072	.053	.040	.023	.017	.013		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-03-16

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:120.07V I:0.151A P:16.51W PF:0.9106 Freq:60.00Hz Lamp Flux:503.675x1 lm										
NAME: Pendent lamp					TYPE:--			SERIAL No.:FTS23031602L-01		
SPEC.:S09918					DIM.: --					
MFR.: YiZHI					SUR.:455mm					
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	15.9	17.4	16.3	17.8	18.2	18.1	19.6	18.5	20.0	20.4
3H	17.4	18.8	17.8	19.2	19.7	21.2	22.6	21.6	23.0	23.5
4H	18.0	19.3	18.4	19.7	20.2	22.8	24.2	23.3	24.6	25.1
6H	18.3	19.6	18.8	20.1	20.6	24.6	25.9	25.1	26.4	26.9
8H	18.5	19.7	19.0	20.1	20.7	25.6	26.8	26.1	27.3	27.8
12H	18.5	19.7	19.0	20.2	20.7	26.7	27.9	27.2	28.4	28.9
4H 2H	17.1	18.5	17.6	18.9	19.4	18.7	20.1	19.2	20.5	21.0
3H	19.0	20.1	19.5	20.6	21.2	22.1	23.2	22.6	23.7	24.3
4H	19.8	20.9	20.3	21.4	22.0	23.9	25.0	24.5	25.5	26.1
6H	20.4	21.4	21.0	21.9	22.5	25.9	26.9	26.5	27.5	28.1
8H	20.6	21.5	21.2	22.1	22.7	27.0	28.0	27.6	28.5	29.1
12H	20.8	21.6	21.4	22.2	22.8	28.3	29.1	28.9	29.7	30.4
8H 4H	21.2	22.1	21.8	22.7	23.3	24.3	25.2	24.9	25.8	26.4
6H	22.3	23.1	22.9	23.7	24.3	26.7	27.4	27.3	28.0	28.7
8H	22.8	23.5	23.4	24.1	24.8	28.0	28.7	28.6	29.3	30.0
12H	23.1	23.7	23.8	24.4	25.1	29.5	30.1	30.1	30.7	31.4
12H 4H	21.6	22.5	22.2	23.1	23.7	24.4	25.2	24.9	25.8	26.4
6H	23.0	23.7	23.6	24.3	25.0	26.8	27.5	27.4	28.1	28.8
8H	23.7	24.3	24.4	25.0	25.7	28.2	28.9	28.9	29.5	30.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.1 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.4				

CIE Pub.117, 503.7 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -2.4)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-03-16

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:120.07V I:0.151A P:16.51W PF:0.9106 Freq:60.00Hz Lamp Flux:503.675x1 lm		
NAME: Pendant lamp	TYPE:--	SERIAL No.:FTS23031602L-01
SPEC.:S09918	DIM.: --	
MFR.: YiZHI	SUR.:455mm	

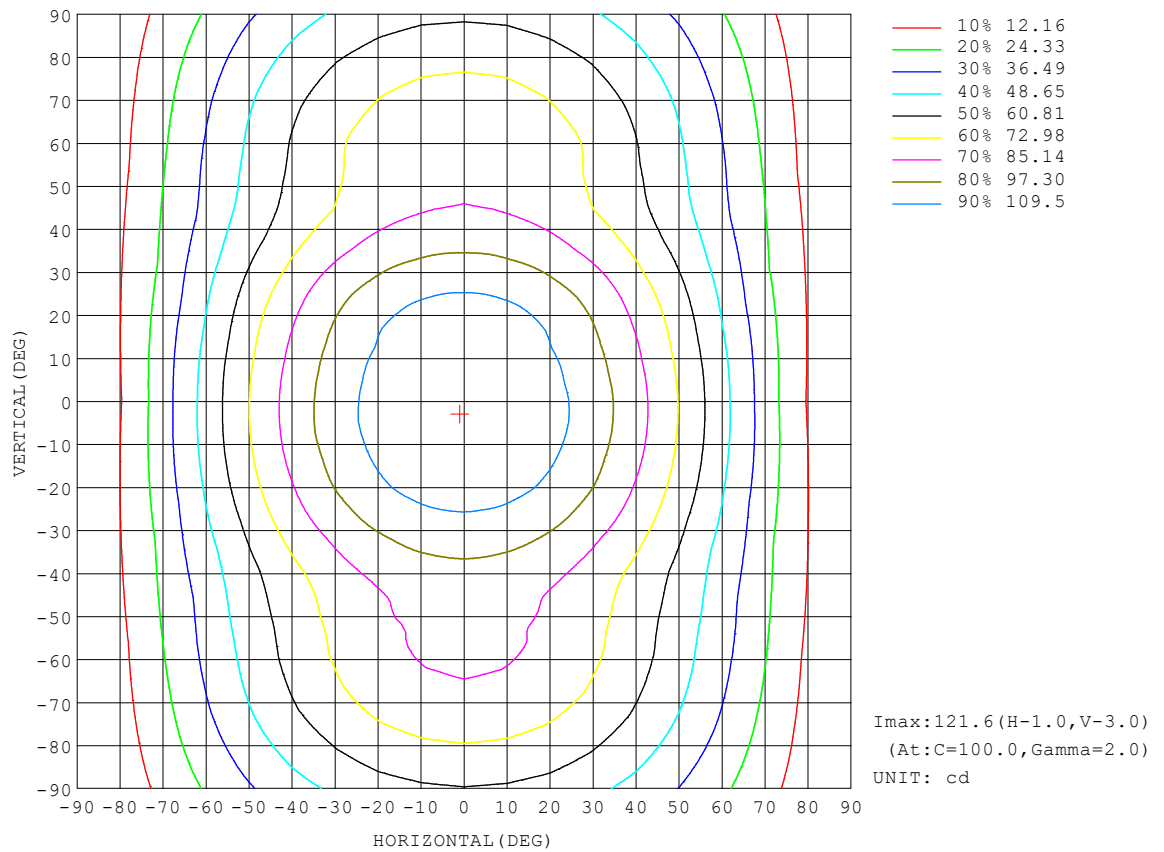
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	50	37	30	49	37	29	47	36	29	23
0.80	59	45	37	57	45	37	55	44	37	29
1.00	66	53	45	65	52	44	62	53	43	35
1.25	73	60	51	71	59	51	67	57	50	41
1.50	78	66	57	76	64	56	72	62	55	45
2.00	85	74	65	83	72	64	78	69	62	52
2.50	90	79	71	87	77	70	82	74	67	56
3.00	93	84	76	90	82	75	85	78	72	60
4.00	98	90	83	95	87	81	89	83	78	65
5.00	101	94	88	98	91	86	91	86	82	69
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:2023-03-16

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:120.07V I:0.151A P:16.51W PF:0.9106 Freq:60.00Hz Lamp Flux:503.675x1 lm		
NAME: Pendent lamp	TYPE:--	SERIAL No.:FTS23031602L-01
SPEC.:S09918	DIM.: --	
MFR.: YiZHI	SUR.:455mm	

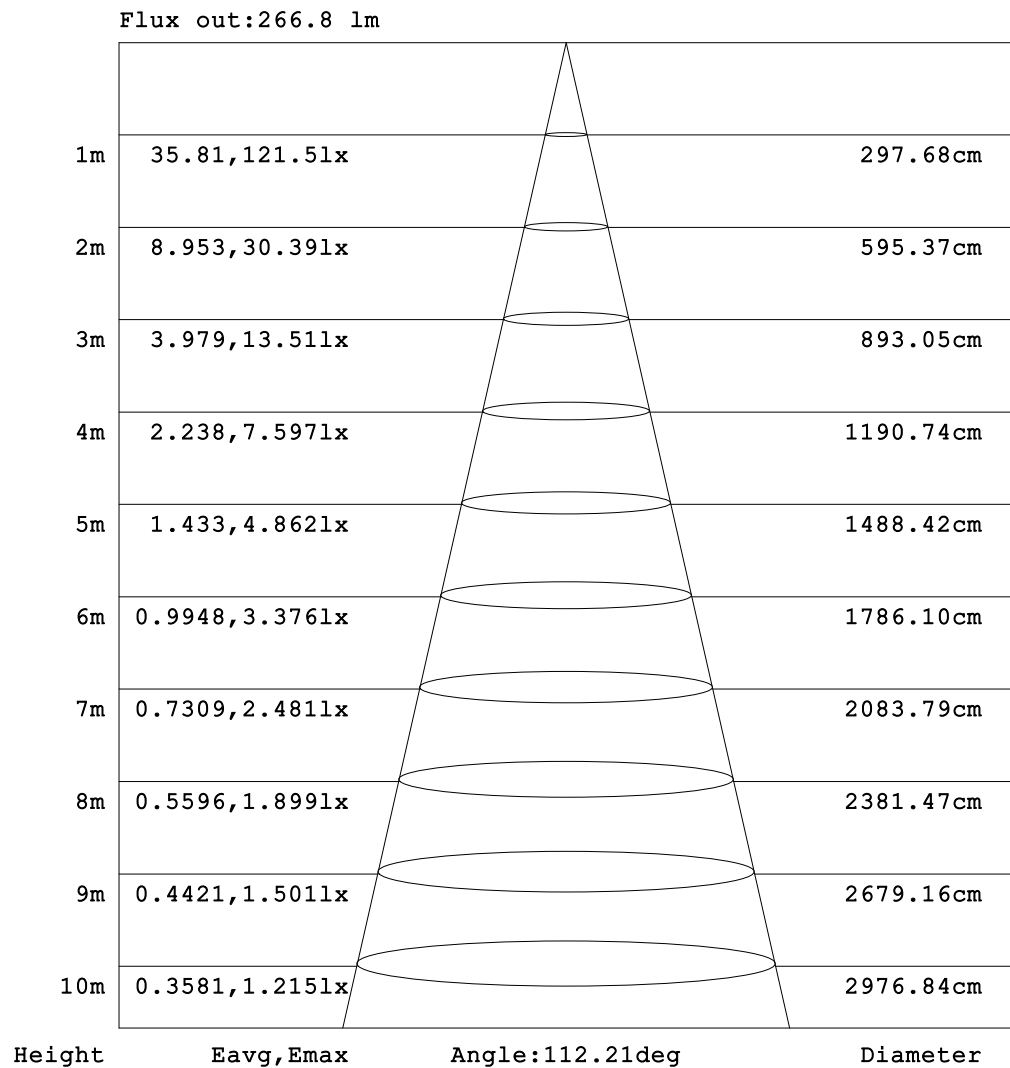


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-03-16

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:120.07V I:0.151A P:16.51W PF:0.9106 Freq:60.00Hz Lamp Flux:503.675x1 lm		
NAME: Pendent lamp	TYPE:--	SERIAL No.:FTS23031602L-01
SPEC.:S09918	DIM.: --	
MFR.: YiZHI	SUR.:455mm	



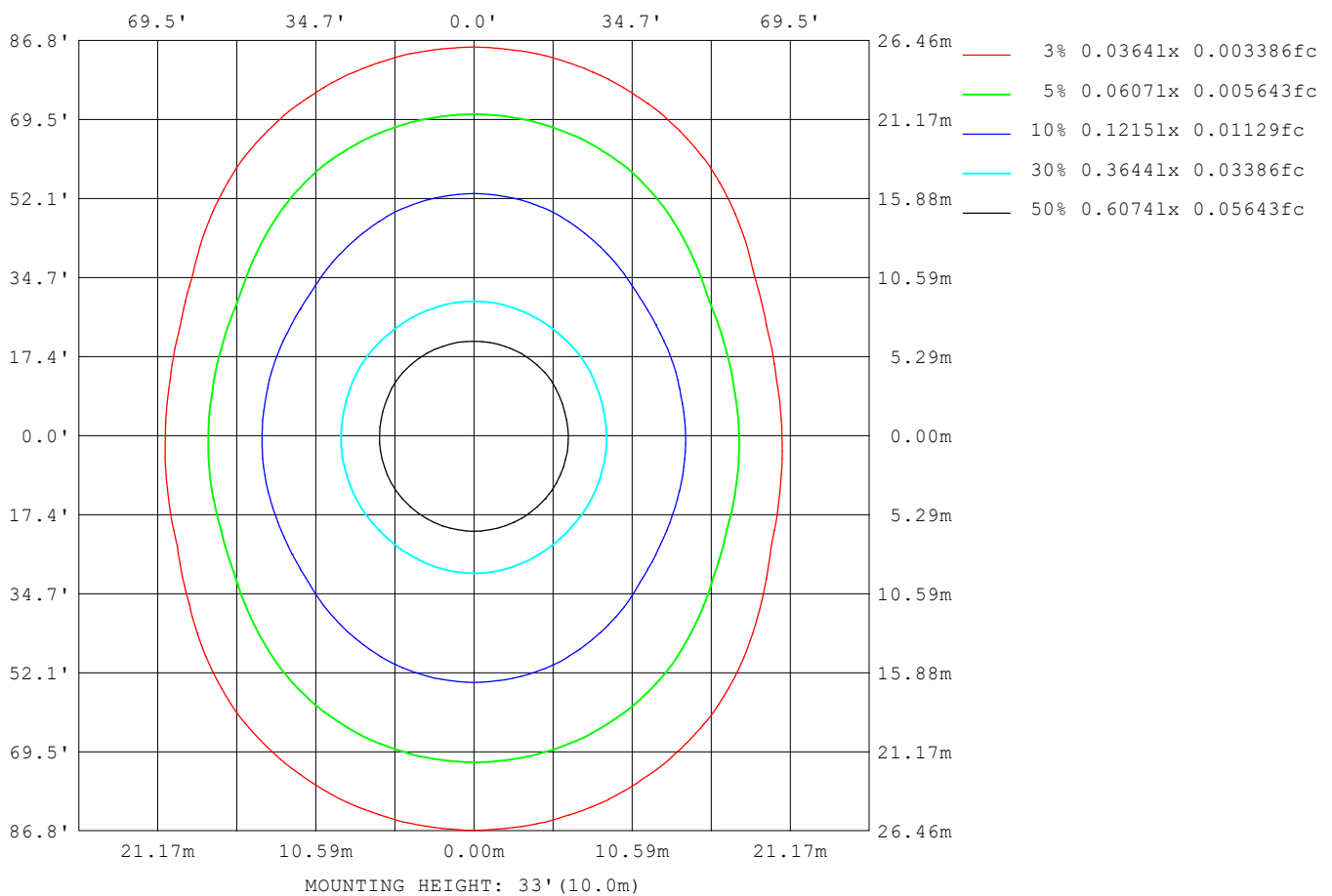
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason Huang
 Test Date:2023-03-16

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

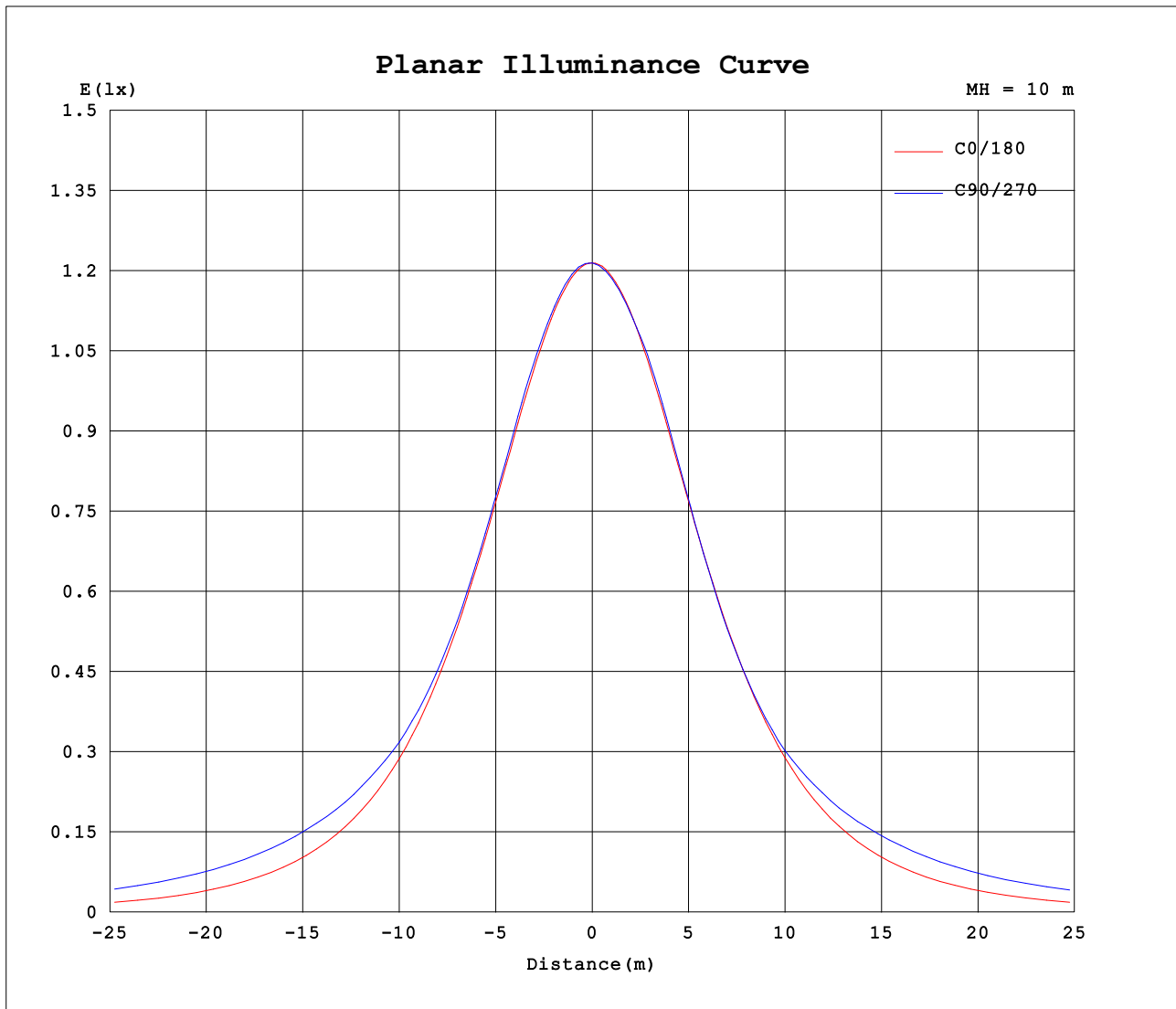
Test:U:120.07V I:0.151A P:16.51W PF:0.9106 Freq:60.00Hz Lamp Flux:503.675x1 lm		
NAME: Pendent lamp	TYPE:--	SERIAL No.:FTS23031602L-01
SPEC.:S09918	DIM.: --	
MFR.: YiZHI	SUR.:455mm	



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-03-16

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: 2023-03-16

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: --