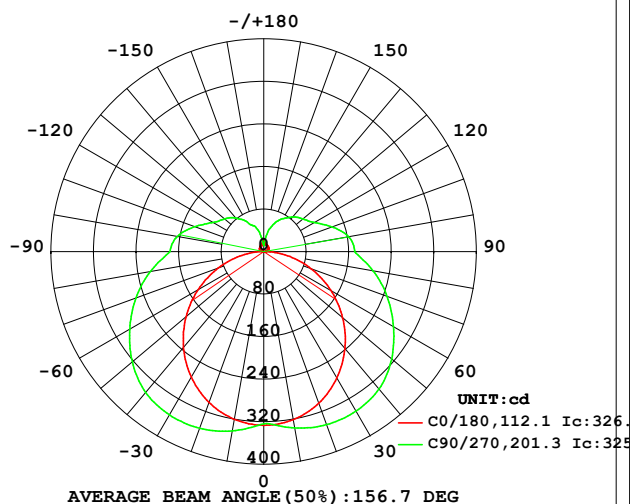


LUMINAIRE PHOTOMETRIC TEST REPORT

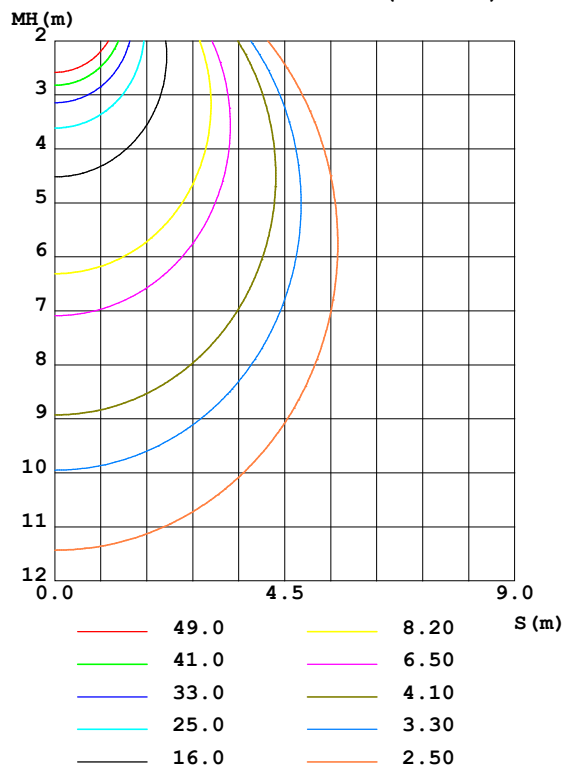
Test:U:120.00V I:0.232A P:25.09W PF:0.9016 Freq:60.00Hz Lamp Flux:1865.65x1 lm		
NAME: Pendant lamp	TYPE:--	SERIAL No.:FTS23031602L-07
SPEC.:S03224	DIM.: --	
MFR.: YiZHI	SUR.:595mm	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 74.36 lm/W
MODEL	--	I _{max} (cd)	355.4	S/MH (C0/180)	1.24	
NOMINAL POWER (W)	--	LOR (%)	100.0	S/MH (C90/270)	1.63	
RATED VOLTAGE (V)	--	TOTAL FLUX (lm)	1865.6	η UP, DN (C0-180)	11.6, 38.0	
NOMINAL FLUX (lm)	1865.65	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	11.5, 38.9	
LAMPS INSIDE	1	η up (%)	23.0	CIBSE SHR NOM	1.50	
TEST VOLTAGE (V)	--	η down (%)	77.0	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: 2023-03-17

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	321.0	331.1	336.8	328.3	320.1	335.1	342.2	333.4	0- 10	31.38	31.38	1.68,1.68
20	303.3	331.7	346.3	328.5	301.6	336.3	353.5	335.2	10- 20	93.90	125.3	6.71,6.71
30	274.9	322.5	346.5	318.9	272.7	327.3	354.6	326.8	20- 30	150.5	275.8	14.8,14.8
40	237.7	304.1	337.3	300.2	235.0	308.6	345.8	309.0	30- 40	194.5	470.3	25.2,25.2
50	193.9	277.0	314.1	273.0	190.6	281.0	322.7	282.1	40- 50	220.4	690.7	37,37
60	145.5	239.4	281.8	235.3	142.0	242.8	291.0	244.6	50- 60	224.6	915.3	49.1,49.1
70	95.25	196.2	246.9	192.6	91.44	199.6	256.0	201.7	60- 70	208.5	1124	60.2,60.2
80	45.40	153.6	208.8	150.4	41.60	156.2	216.5	158.6	70- 80	176.9	1301	69.7,69.7
90	2.304	113.9	171.4	112.7	1.531	115.8	176.6	117.1	80- 90	135.1	1436	77,77
100	3.823	102.3	162.4	101.1	3.256	101.5	165.4	102.7	90-100	110.1	1546	82.9,82.9
110	6.362	78.75	136.6	79.68	6.180	78.75	137.8	77.79	100-110	89.97	1636	87.7,87.7
120	9.314	68.66	110.3	70.70	9.247	69.68	110.6	68.29	110-120	69.89	1706	91.4,91.4
130	10.69	65.00	96.29	66.05	10.39	61.76	96.10	62.99	120-130	56.34	1762	94.5,94.5
140	11.77	59.98	85.05	59.76	11.53	56.25	82.47	57.76	130-140	44.03	1806	96.8,96.8
150	12.73	51.48	71.64	44.48	12.50	40.64	66.23	49.17	140-150	30.85	1837	98.5,98.5
160	13.79	42.23	55.27	27.96	13.36	26.75	51.43	39.68	150-160	18.33	1855	99.4,99.4
170	16.46	31.35	30.95	20.00	16.77	18.59	28.04	28.92	160-170	8.225	1864	99.9,99.9
180	19.93	19.72	11.96	18.83	19.93	19.72	11.92	18.83	170-180	2.068	1866	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 578.56 lm

%lum = 31.0%

%lamp = 31.0%

Conical surface Flux(120deg): 915.34 lm

%lum = 49.1%

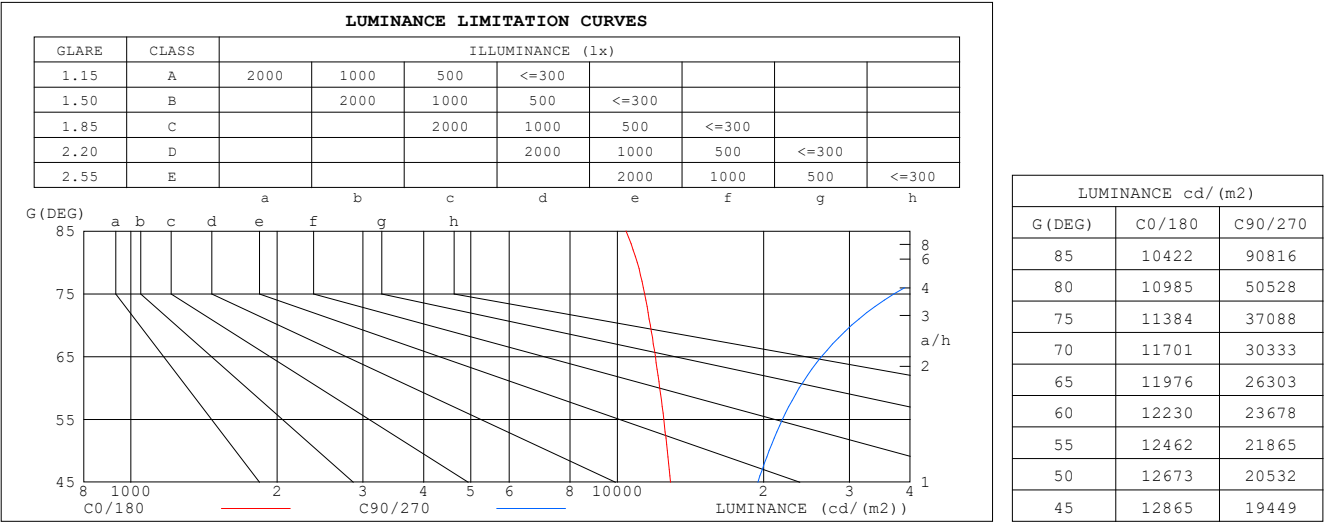
%lamp = 49.1%

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-03-17

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:120.00V I:0.232A P:25.09W PF:0.9016 Freq:60.00Hz Lamp Flux:1865.65x1 lm		
NAME: Pendent lamp	TYPE:--	SERIAL No.:FTS23031602L-07
SPEC.:S03224	DIM.: --	
MFR.: YiZHI	SUR.:595mm	



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-03-17

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: --

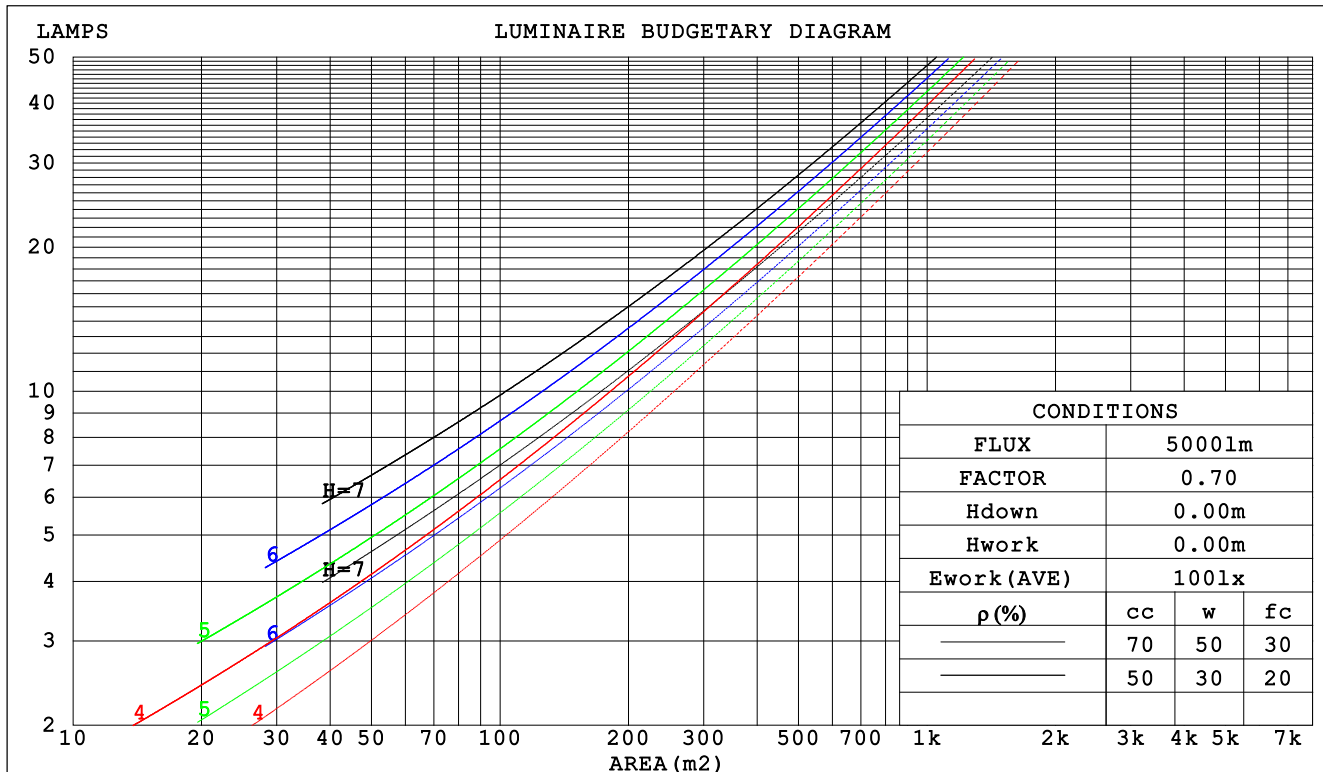
GONIOPHOTOMETERS SYSTEM TEST REPORT

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.232A P:25.09W PF:0.9016 Freq:60.00Hz Lamp Flux:1865.65x1 lm		
NAME: Pendent lamp	TYPE:--	SERIAL No.:FTS23031602L-07
SPEC.:S03224	DIM.: --	
MFR.: YiZHI	SUR.:595mm	

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	1.14	1.14	1.14	1.08	1.08	1.08	.98	.98	.98	.89	.89	.89	.81	.81	.81	.77
1.0	.94	.89	.84	.90	.85	.81	.81	.77	.74	.73	.70	.68	.66	.64	.62	.58
2.0	.81	.73	.66	.77	.69	.63	.69	.63	.58	.62	.58	.54	.56	.52	.49	.46
3.0	.70	.61	.53	.66	.58	.51	.60	.53	.48	.54	.49	.44	.49	.44	.40	.37
4.0	.61	.52	.44	.58	.49	.43	.53	.45	.40	.48	.42	.37	.43	.38	.34	.31
5.0	.54	.44	.37	.51	.43	.36	.47	.39	.34	.42	.36	.31	.38	.33	.29	.26
6.0	.48	.39	.32	.46	.37	.31	.42	.34	.29	.38	.32	.27	.34	.29	.25	.22
7.0	.43	.34	.28	.41	.33	.27	.38	.31	.25	.34	.28	.24	.31	.26	.22	.19
8.0	.39	.31	.25	.38	.30	.24	.34	.27	.22	.31	.25	.21	.29	.23	.19	.17
9.0	.36	.28	.22	.34	.27	.21	.32	.25	.20	.29	.23	.19	.26	.21	.17	.15
10.0	.33	.25	.20	.32	.24	.19	.29	.22	.18	.27	.21	.17	.24	.19	.16	.14



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason Huang
 Test Date:2023-03-17

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:120.00V I:0.232A P:25.09W PF:0.9016 Freq:60.00Hz Lamp Flux:1865.65x1 lm		
NAME: Pendent lamp	TYPE:--	SERIAL No.:FTS23031602L-07
SPEC.:S03224	DIM.: --	
MFR.: YiZHI	SUR.:595mm	

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	.385	.219	.069	.371	.212	.067	.344	.197	.063	.320	.184	.059	.297	.172	.056	
2.0	.334	.183	.056	.321	.177	.054	.297	.165	.051	.274	.154	.048	.254	.143	.045	
3.0	.296	.158	.047	.285	.152	.046	.263	.142	.043	.242	.133	.041	.224	.124	.038	
4.0	.267	.139	.041	.256	.134	.040	.236	.125	.037	.218	.117	.035	.200	.109	.033	
5.0	.242	.123	.036	.233	.119	.035	.215	.112	.033	.198	.104	.031	.182	.097	.029	
6.0	.222	.111	.032	.213	.108	.031	.197	.101	.029	.181	.094	.028	.166	.088	.026	
7.0	.205	.101	.029	.197	.098	.028	.181	.092	.026	.167	.086	.025	.154	.080	.023	
8.0	.190	.093	.026	.182	.090	.025	.168	.084	.024	.155	.079	.023	.143	.073	.021	
9.0	.177	.085	.024	.170	.083	.023	.157	.078	.022	.145	.073	.021	.133	.068	.020	
10.0	.165	.079	.022	.159	.077	.021	.147	.072	.020	.136	.067	.019	.125	.063	.018	

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	.366	.366	.366	.313	.313	.313	.214	.214	.214	.123	.123	.123	.039	.039	.039	
1.0	.362	.332	.305	.310	.285	.263	.212	.196	.182	.122	.114	.106	.039	.037	.034	
2.0	.356	.310	.271	.305	.267	.234	.209	.185	.163	.120	.107	.096	.039	.035	.031	
3.0	.349	.294	.250	.299	.253	.216	.205	.176	.152	.119	.103	.089	.038	.033	.029	
4.0	.341	.281	.236	.293	.243	.205	.201	.169	.144	.116	.099	.085	.037	.032	.028	
5.0	.334	.272	.226	.286	.235	.197	.197	.164	.139	.114	.096	.082	.037	.031	.027	
6.0	.326	.264	.219	.280	.228	.191	.193	.160	.135	.112	.094	.080	.036	.031	.026	
7.0	.319	.257	.214	.275	.223	.186	.190	.156	.132	.110	.092	.079	.036	.030	.026	
8.0	.313	.252	.210	.269	.218	.183	.186	.153	.130	.108	.090	.077	.035	.030	.026	
9.0	.306	.247	.207	.264	.214	.181	.183	.151	.128	.106	.089	.076	.034	.029	.025	
10.0	.300	.243	.205	.259	.211	.179	.180	.148	.127	.105	.088	.076	.034	.029	.025	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-03-17

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:120.00V I:0.232A P:25.09W PF:0.9016 Freq:60.00Hz Lamp Flux:1865.65x1 lm										
NAME: Pendent lamp					TYPE:--			SERIAL No.:FTS23031602L-07		
SPEC.:S03224					DIM.: --					
MFR.: YiZHI					SUR.:595mm					
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	20.3	21.6	20.8	22.2	22.8	22.7	24.1	23.3	24.6	25.3
3H	21.9	23.1	22.5	23.7	24.4	25.4	26.6	26.0	27.2	27.9
4H	22.6	23.7	23.2	24.3	25.1	26.9	28.0	27.5	28.7	29.4
6H	23.1	24.2	23.7	24.8	25.6	28.5	29.6	29.1	30.2	31.0
8H	23.3	24.4	23.9	25.0	25.8	29.4	30.4	30.0	31.1	31.8
12H	23.4	24.4	24.1	25.1	25.9	30.4	31.4	31.0	32.0	32.8
4H 2H	21.6	22.7	22.2	23.4	24.1	23.3	24.5	23.9	25.1	25.8
3H	23.5	24.5	24.1	25.2	25.9	26.2	27.2	26.9	27.9	28.7
4H	24.4	25.3	25.0	26.0	26.8	27.9	28.8	28.6	29.5	30.3
6H	25.1	25.9	25.8	26.6	27.5	29.7	30.5	30.4	31.2	32.1
8H	25.4	26.2	26.1	26.9	27.7	30.7	31.5	31.4	32.2	33.0
12H	25.6	26.3	26.3	27.0	27.9	31.8	32.6	32.6	33.3	34.2
8H 4H	25.5	26.2	26.2	27.0	27.8	28.2	29.0	28.9	29.7	30.6
6H	26.6	27.3	27.3	28.0	28.9	30.3	31.0	31.1	31.7	32.6
8H	27.1	27.7	27.9	28.5	29.4	31.5	32.1	32.3	32.9	33.8
12H	27.5	28.0	28.3	28.8	29.7	33.0	33.5	33.7	34.2	35.2
12H 4H	25.8	26.5	26.5	27.3	28.1	28.2	28.9	29.0	29.7	30.6
6H	27.2	27.7	27.9	28.5	29.4	30.4	31.0	31.2	31.8	32.7
8H	27.8	28.4	28.6	29.1	30.1	31.8	32.3	32.6	33.1	34.0
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	+ 0.3 / - 0.5					+ 0.3 / - 0.4				

CIE Pub.117, 1866 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.2$)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-03-17

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:120.00V I:0.232A P:25.09W PF:0.9016 Freq:60.00Hz Lamp Flux:1865.65x1 lm		
NAME: Pendant lamp	TYPE:--	SERIAL No.:FTS23031602L-07
SPEC.:S03224	DIM.: --	
MFR.: YiZHI	SUR.:595mm	

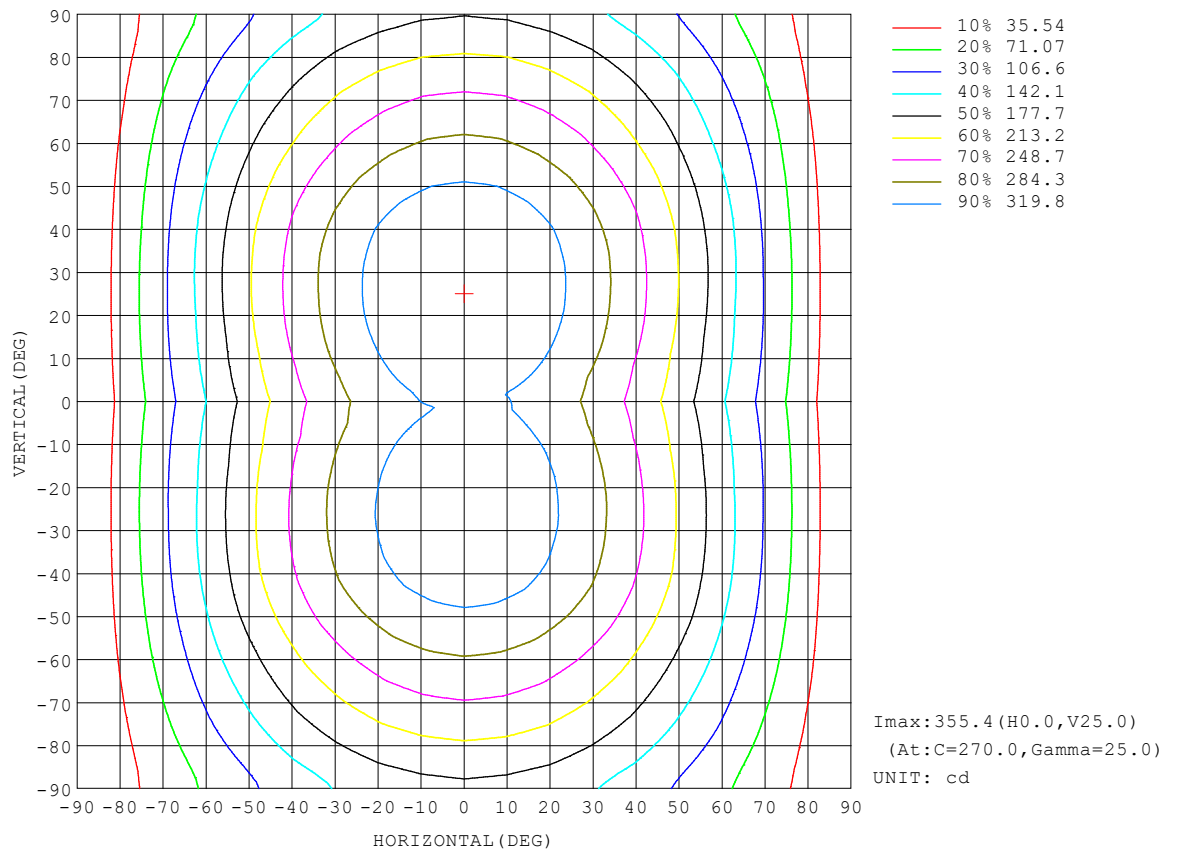
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	46	33	26	44	33	26	42	31	25	18
0.80	55	42	34	53	41	33	50	39	32	24
1.00	63	49	41	60	48	40	56	48	39	29
1.25	69	57	48	67	55	47	62	52	45	35
1.50	75	62	53	72	60	52	66	57	50	38
2.00	82	71	62	79	68	61	72	64	57	45
2.50	87	76	68	83	74	66	76	68	62	48
3.00	91	81	73	86	78	71	79	72	66	52
4.00	95	87	81	91	84	78	83	77	72	56
5.00	98	91	85	94	88	82	85	80	76	59
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:2023-03-17

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:120.00V I:0.232A P:25.09W PF:0.9016 Freq:60.00Hz Lamp Flux:1865.65x1 lm		
NAME: Pendent lamp	TYPE:--	SERIAL No.:FTS23031602L-07
SPEC.:S03224	DIM.: --	
MFR.: YiZHI	SUR.:595mm	

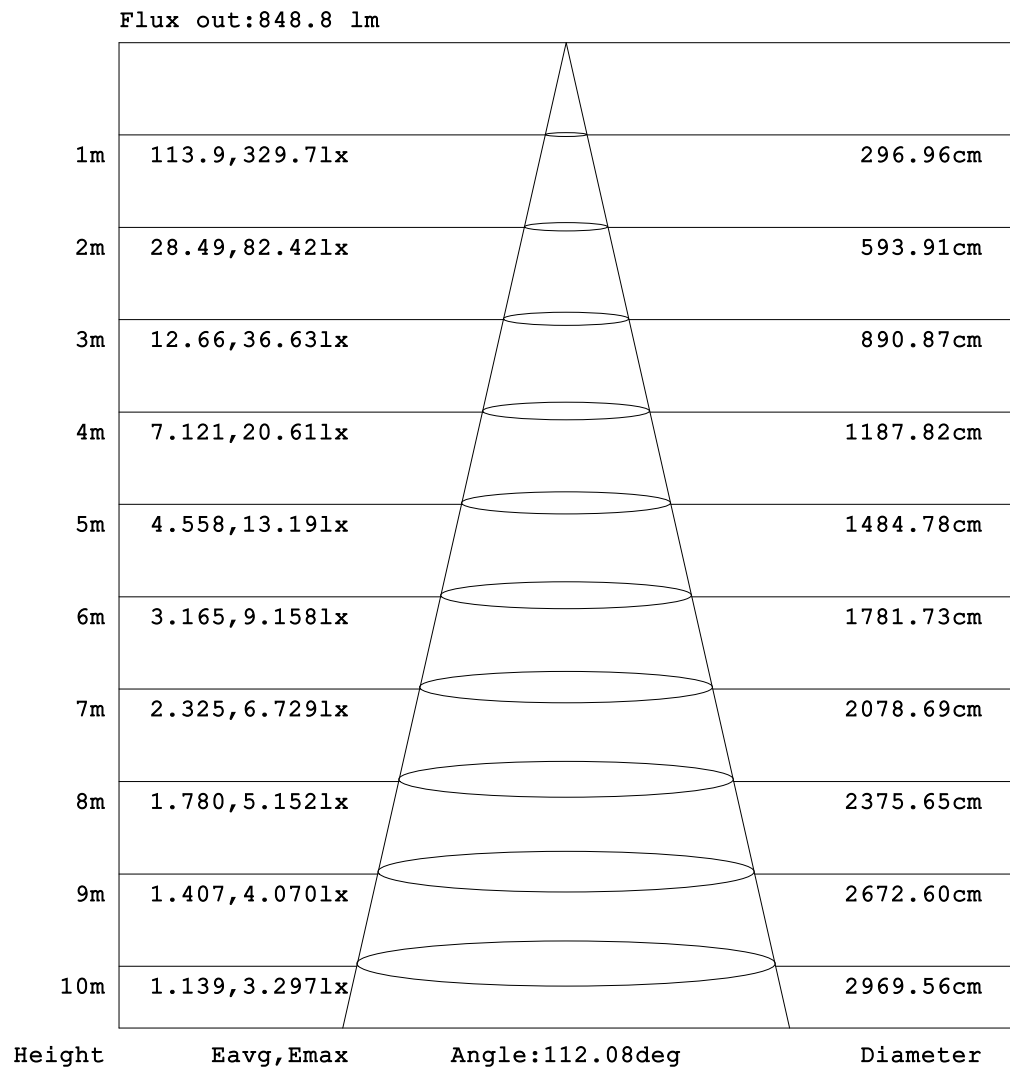


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-03-17

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:120.00V I:0.232A P:25.09W PF:0.9016 Freq:60.00Hz Lamp Flux:1865.65x1 lm		
NAME: Pendent lamp	TYPE:--	SERIAL No.:FTS23031602L-07
SPEC.:S03224	DIM.: --	
MFR.: YiZHI	SUR.:595mm	



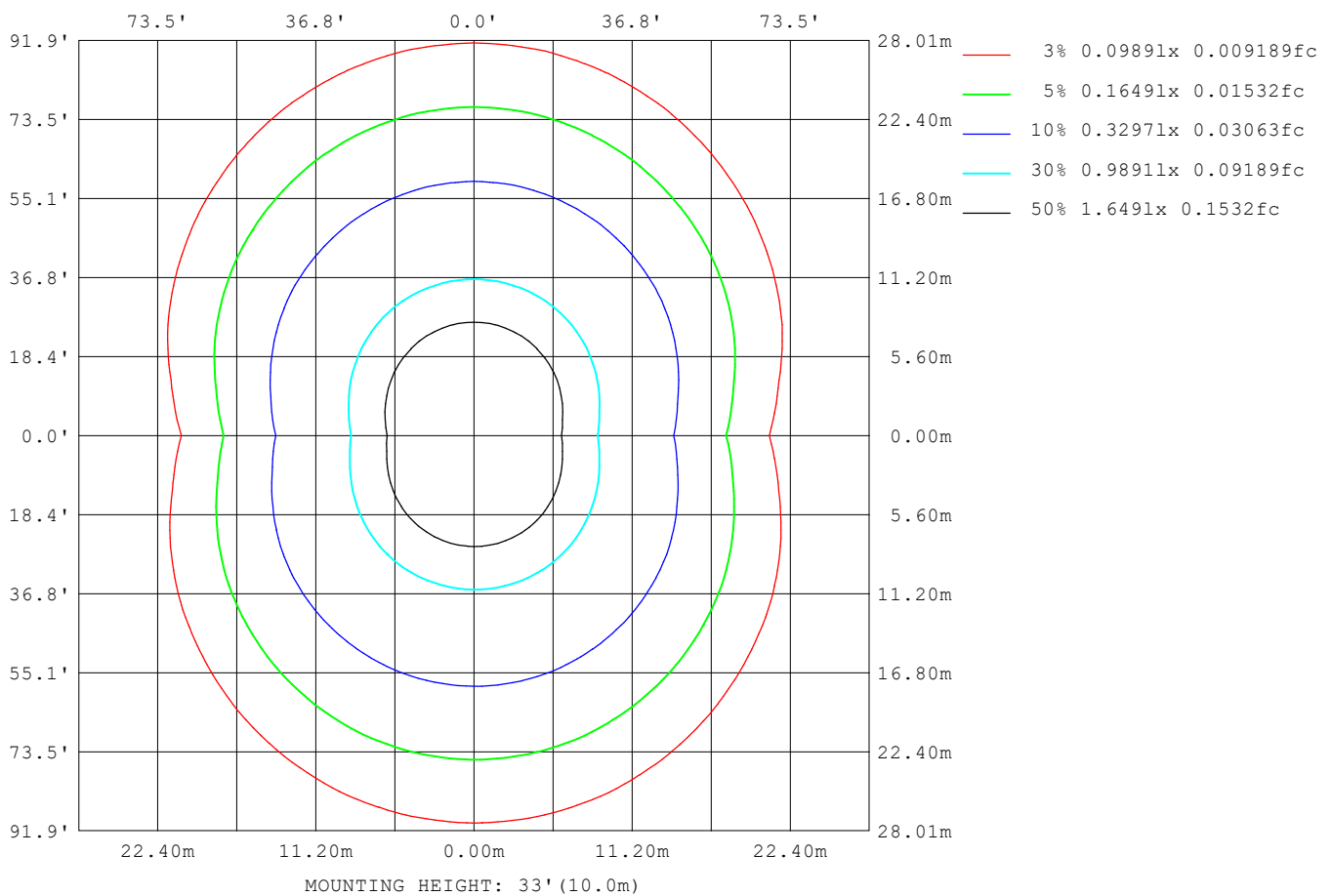
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason Huang
 Test Date:2023-03-17

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

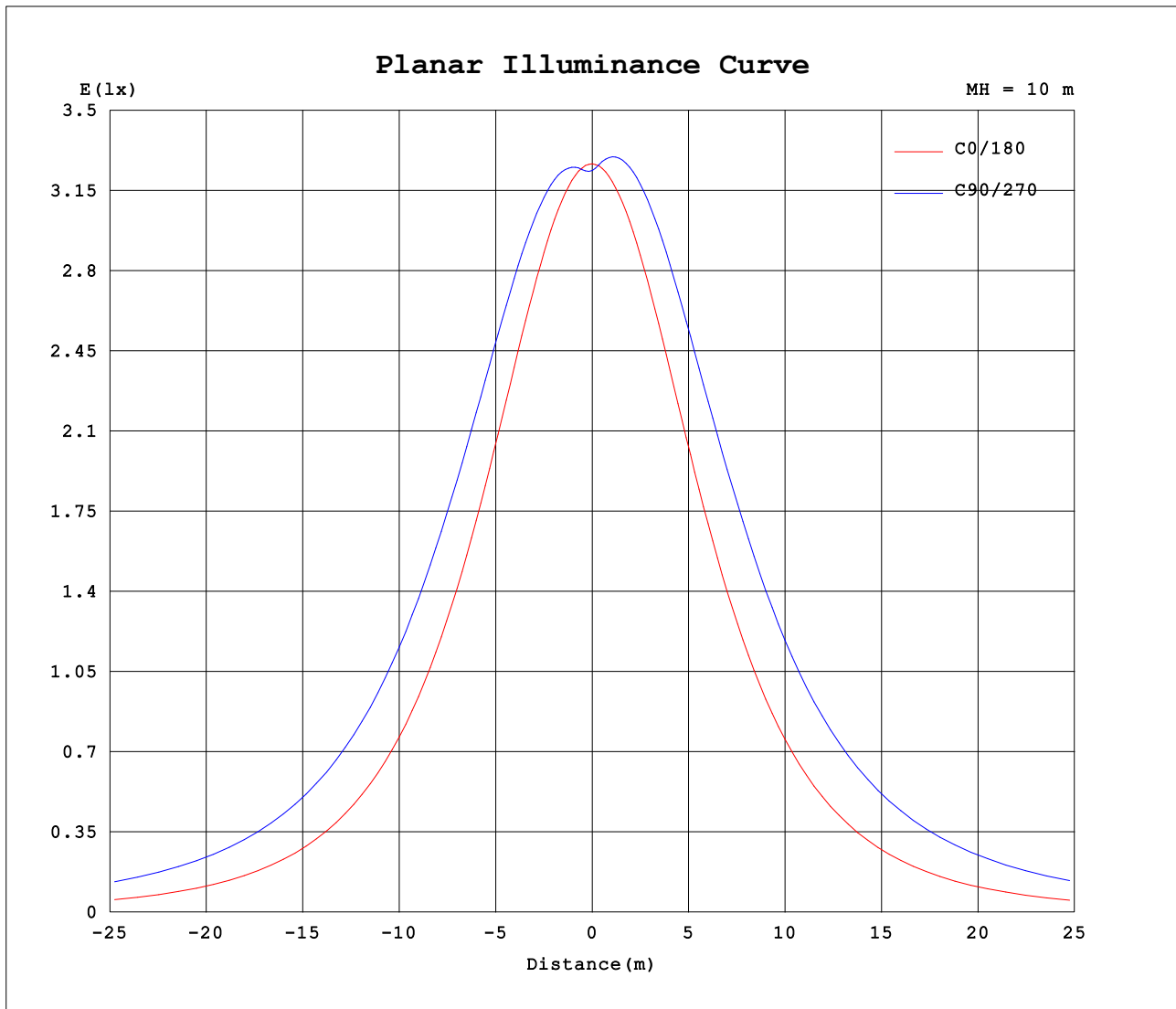
Test:U:120.00V I:0.232A P:25.09W PF:0.9016 Freq:60.00Hz Lamp Flux:1865.65x1 lm		
NAME: Pendent lamp	TYPE:--	SERIAL No.:FTS23031602L-07
SPEC.:S03224	DIM.: --	
MFR.: YiZHI	SUR.:595mm	



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-03-17

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: 2023-03-17

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: --