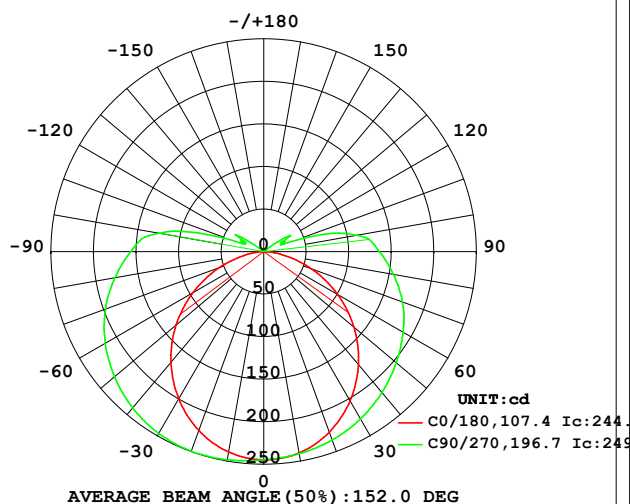


LUMINAIRE PHOTOMETRIC TEST REPORT

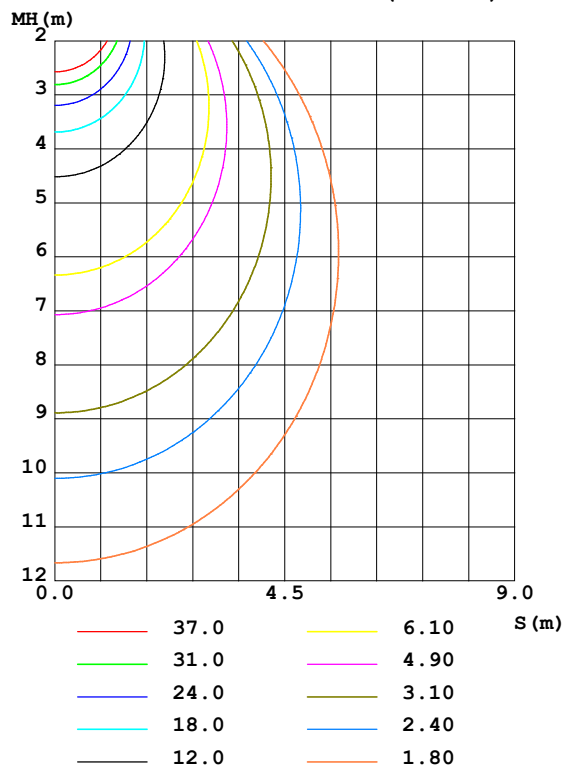
Test:U:120.2V I:0.1556A P:17.16W PF:0.9179 Freq:60.00Hz Lamp Flux:1153.47x1 lm		
NAME: Jensen	TYPE:--	SERIAL No.:FTS23101004L-01
SPEC.:S07018	DIM.: --	
MFR.: Matteo	SUR.:420mm	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 67.22 lm/W
MODEL	--	I _{max} (cd)	249.8	S/MH(C0/180)	1.22	
NOMINAL POWER(W)	--	LOR(%)	100.0	S/MH(C90/270)	1.52	
RATED VOLTAGE(V)	--	TOTAL FLUX(lm)	1153.5	η UP,DN(C0-180)	6.5,41.5	
NOMINAL FLUX(lm)	1153.47	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	7.1,44.9	
LAMPS INSIDE	1	η up(%)	13.7	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	--	η down(%)	86.3	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:2023-10-10

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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	240.2	240.3	241.1	239.4	239.0	244.3	248.4	245.4	0- 10	23.25	23.25	2.02,2.02
20	225.7	230.3	235.6	228.7	223.6	237.9	249.6	239.7	10- 20	67.51	90.76	7.87,7.87
30	202.9	215.4	227.2	213.0	199.8	225.7	246.7	227.9	20- 30	105.0	195.8	17,17
40	173.2	196.5	216.1	193.5	169.7	208.2	239.7	211.0	30- 40	132.2	328.0	28.4,28.4
50	138.4	174.9	203.4	171.7	134.5	187.6	229.0	190.3	40- 50	147.1	475.2	41.2,41.2
60	100.1	152.8	189.3	149.4	95.86	165.2	215.2	167.7	50- 60	149.7	624.8	54.2,54.2
70	59.88	131.4	173.6	128.1	55.77	142.8	198.0	144.9	60- 70	141.6	766.4	66.4,66.4
80	22.33	110.0	154.8	106.7	19.11	120.1	177.6	121.9	70- 80	125.0	891.4	77.3,77.3
90	1.199	91.05	136.0	87.98	0.7417	99.82	156.3	101.2	80- 90	104.3	995.7	86.3,86.3
100	1.028	67.00	110.8	61.99	0.8276	66.42	125.4	73.00	90-100	84.55	1080	93.6,93.6
110	1.226	29.96	35.61	24.39	0.9992	26.35	37.91	31.63	100-110	44.09	1124	97.5,97.5
120	1.427	10.30	33.09	6.291	1.216	6.285	35.40	9.360	110-120	17.10	1141	99,99
130	1.684	4.414	3.011	2.938	1.441	2.801	2.535	3.966	120-130	7.163	1149	99.6,99.6
140	1.812	2.283	2.529	2.155	1.613	1.841	2.326	1.869	130-140	1.801	1150	99.7,99.7
150	1.969	2.141	2.298	2.176	1.813	1.941	2.098	1.955	140-150	1.294	1152	99.8,99.8
160	2.126	2.212	2.283	2.262	1.998	2.098	2.169	2.112	150-160	0.9722	1153	99.9,99.9
170	2.240	2.276	2.298	2.305	2.170	2.191	2.212	2.191	160-170	0.6235	1153	100,100
180	2.255	2.276	2.298	2.291	2.269	2.269	2.298	2.291	170-180	0.2156	1153	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 400.54 lm

%lum = 34.7%

%lamp = 34.7%

Conical surface Flux(120deg): 624.84 lm

%lum = 54.2%

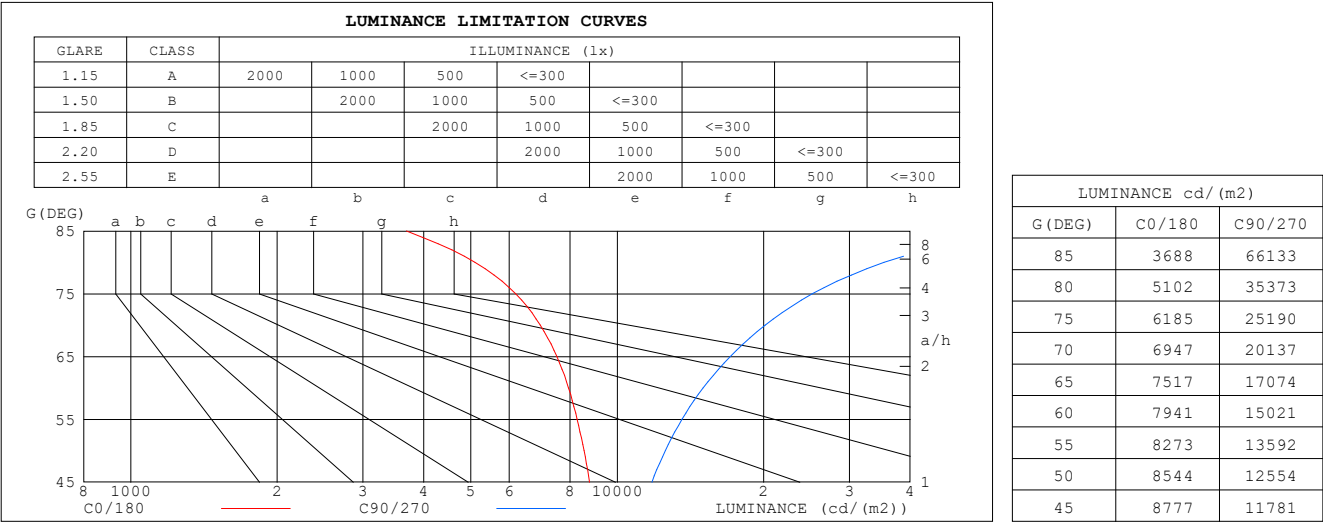
%lamp = 54.2%

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: ---

LUMINANCE LIMITATION CURVES

Test:U:120.2V I:0.1556A P:17.16W PF:0.9179 Freq:60.00Hz Lamp Flux:1153.47x1 lm		
NAME: Jensen	TYPE:--	SERIAL No.:FTS23101004L-01
SPEC.:S07018	DIM.: --	
MFR.: Matteo	SUR.:420mm	



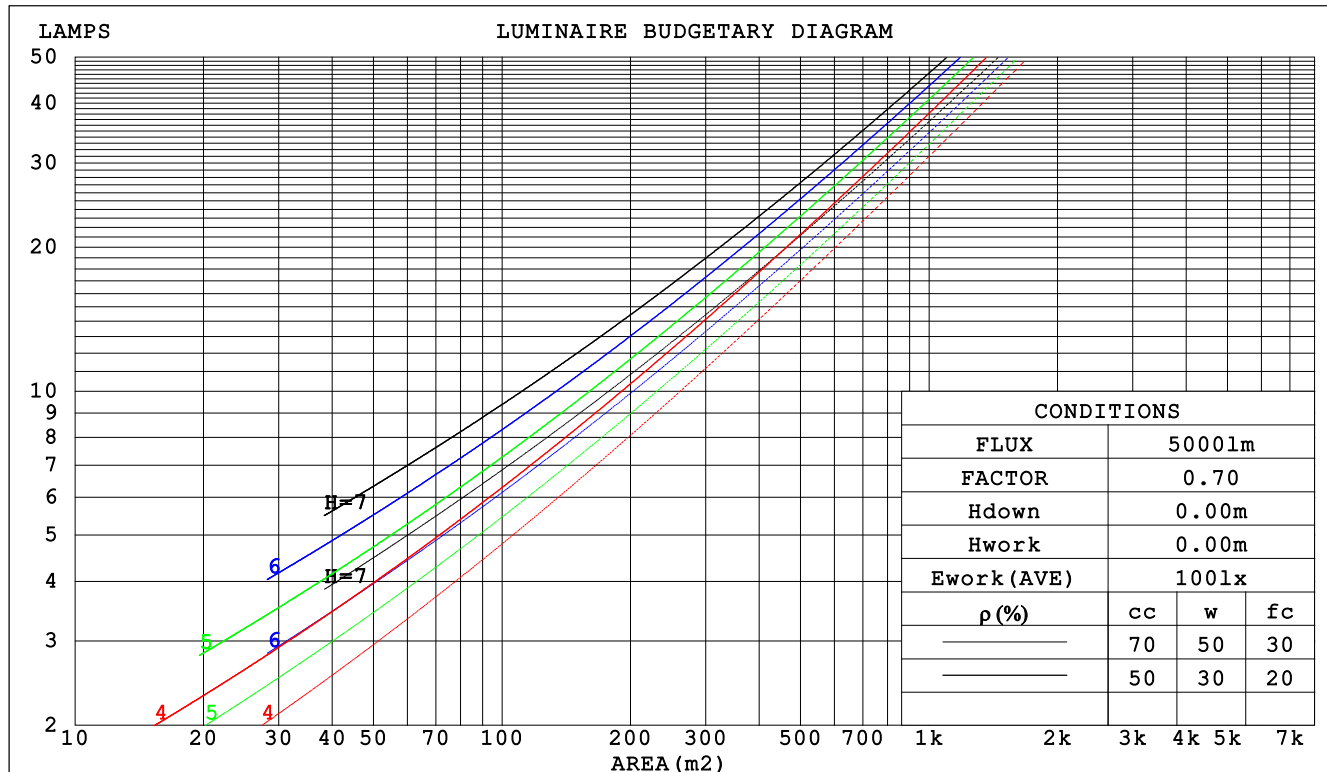
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-10-10

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: ---

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.2V I:0.1556A P:17.16W PF:0.9179 Freq:60.00Hz Lamp Flux:1153.47x1 lm		
NAME: Jensen	TYPE:--	SERIAL No.:FTS23101004L-01
SPEC.:S07018	DIM.: --	
MFR.: Matteo	SUR.:420mm	

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	1.04	1.04	1.04	.96	.96	.96	.89	.89	.89	.86
1.0	.95	.90	.85	.92	.87	.82	.85	.81	.77	.78	.75	.72	.73	.70	.67	.64
2.0	.81	.73	.66	.78	.70	.64	.72	.66	.60	.67	.62	.57	.62	.57	.54	.51
3.0	.70	.61	.53	.67	.59	.52	.62	.55	.49	.58	.52	.47	.53	.48	.44	.41
4.0	.61	.52	.44	.59	.50	.43	.55	.47	.41	.51	.44	.39	.47	.42	.37	.34
5.0	.54	.45	.37	.52	.43	.37	.49	.41	.35	.45	.39	.33	.42	.36	.32	.29
6.0	.49	.39	.32	.47	.38	.32	.44	.36	.30	.41	.34	.29	.38	.32	.27	.25
7.0	.44	.35	.28	.42	.34	.28	.40	.32	.26	.37	.30	.25	.34	.29	.24	.22
8.0	.40	.31	.25	.39	.30	.24	.36	.29	.23	.34	.27	.22	.32	.26	.21	.19
9.0	.36	.28	.22	.35	.27	.22	.33	.26	.21	.31	.25	.20	.29	.23	.19	.17
10.0	.34	.25	.20	.33	.25	.20	.31	.24	.19	.29	.22	.18	.27	.21	.17	.15



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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WEC AND CCEC

Test:U:120.2V I:0.1556A P:17.16W PF:0.9179 Freq:60.00Hz Lamp Flux:1153.47x1 lm		
NAME: Jensen	TYPE:--	SERIAL No.:FTS23101004L-01
SPEC.:S07018	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	.409	.233	.074	.398	.227	.072	.376	.216	.069	.357	.206	.066	.338	.196	.063	
2.0	.349	.191	.059	.339	.187	.058	.320	.178	.055	.302	.169	.053	.285	.161	.051	
3.0	.308	.164	.049	.299	.160	.048	.281	.152	.046	.265	.145	.045	.250	.138	.043	
4.0	.275	.143	.042	.267	.140	.041	.251	.133	.040	.237	.127	.038	.223	.121	.037	
5.0	.249	.127	.037	.242	.124	.036	.228	.118	.035	.214	.113	.034	.202	.108	.032	
6.0	.228	.114	.033	.221	.112	.032	.208	.107	.031	.196	.102	.030	.184	.097	.029	
7.0	.210	.104	.029	.203	.101	.029	.192	.097	.028	.180	.093	.027	.170	.088	.026	
8.0	.194	.095	.027	.188	.093	.026	.177	.089	.025	.167	.085	.024	.158	.081	.024	
9.0	.180	.087	.024	.175	.085	.024	.165	.082	.023	.156	.078	.022	.147	.075	.022	
10.0	.169	.081	.022	.164	.079	.022	.155	.076	.021	.146	.073	.021	.138	.069	.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	.295	.295	.295	.252	.252	.252	.172	.172	.172	.099	.099	.099	.032	.032	.032	
1.0	.292	.260	.232	.250	.223	.199	.171	.154	.138	.098	.089	.080	.032	.029	.026	
2.0	.286	.237	.197	.245	.204	.170	.168	.141	.119	.097	.082	.070	.031	.027	.023	
3.0	.278	.221	.175	.238	.191	.152	.164	.132	.107	.095	.077	.063	.030	.025	.021	
4.0	.270	.208	.161	.232	.180	.140	.159	.126	.099	.092	.074	.058	.030	.024	.019	
5.0	.262	.199	.152	.225	.172	.132	.155	.120	.093	.090	.070	.055	.029	.023	.018	
6.0	.255	.191	.145	.219	.165	.126	.151	.116	.089	.088	.068	.053	.028	.022	.017	
7.0	.247	.184	.140	.213	.159	.122	.147	.112	.086	.085	.066	.051	.028	.022	.017	
8.0	.240	.178	.136	.207	.155	.118	.143	.109	.084	.083	.064	.050	.027	.021	.017	
9.0	.234	.173	.133	.202	.151	.116	.140	.106	.082	.081	.063	.049	.026	.021	.016	
10.0	.228	.169	.130	.196	.147	.114	.136	.103	.081	.079	.061	.048	.026	.020	.016	

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:120.2V I:0.1556A P:17.16W PF:0.9179 Freq:60.00Hz Lamp Flux:1153.47x1 lm										
NAME: Jensen					TYPE:--			SERIAL No.:FTS23101004L-01		
SPEC.:S07018					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	18.8	20.3	19.3	20.7	21.2	21.5	23.0	21.9	23.4	23.9
3H	20.3	21.6	20.8	22.1	22.6	24.4	25.8	24.9	26.2	26.8
4H	20.8	22.1	21.3	22.6	23.2	26.0	27.3	26.5	27.8	28.3
6H	21.2	22.4	21.7	23.0	23.5	27.8	29.0	28.3	29.5	30.1
8H	21.3	22.5	21.9	23.0	23.6	28.8	29.9	29.3	30.5	31.1
12H	21.4	22.5	21.9	23.1	23.7	29.9	31.0	30.4	31.6	32.2
4H 2H	20.2	21.5	20.7	22.0	22.5	22.1	23.4	22.6	23.9	24.4
3H	22.0	23.1	22.5	23.7	24.3	25.2	26.4	25.8	26.9	27.5
4H	22.8	23.8	23.3	24.4	25.0	27.0	28.1	27.6	28.7	29.3
6H	23.4	24.3	24.0	24.9	25.6	29.0	30.0	29.6	30.6	31.2
8H	23.6	24.5	24.2	25.1	25.8	30.2	31.1	30.8	31.7	32.3
12H	23.7	24.5	24.3	25.1	25.8	31.4	32.3	32.1	32.9	33.6
8H 4H	24.1	25.0	24.8	25.6	26.3	27.4	28.3	28.0	28.9	29.6
6H	25.2	26.0	25.9	26.6	27.3	29.7	30.5	30.4	31.1	31.8
8H	25.7	26.4	26.3	27.0	27.8	31.1	31.8	31.7	32.4	33.1
12H	26.0	26.6	26.7	27.3	28.1	32.6	33.2	33.3	33.9	34.7
12H 4H	24.6	25.4	25.2	26.0	26.7	27.4	28.3	28.1	28.9	29.6
6H	26.0	26.7	26.6	27.3	28.1	29.9	30.5	30.5	31.2	31.9
8H	26.7	27.3	27.3	27.9	28.7	31.3	31.9	32.0	32.6	33.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.4				

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:2023-10-10

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: ---

UTILIZATION FACTORS TABLE

Test:U:120.2V I:0.1556A P:17.16W PF:0.9179 Freq:60.00Hz Lamp Flux:1153.47x1 lm		
NAME: Jensen	TYPE:--	SERIAL No.:FTS23101004L-01
SPEC.:S07018	DIM.: --	
MFR.: Matteo	SUR.:420mm	

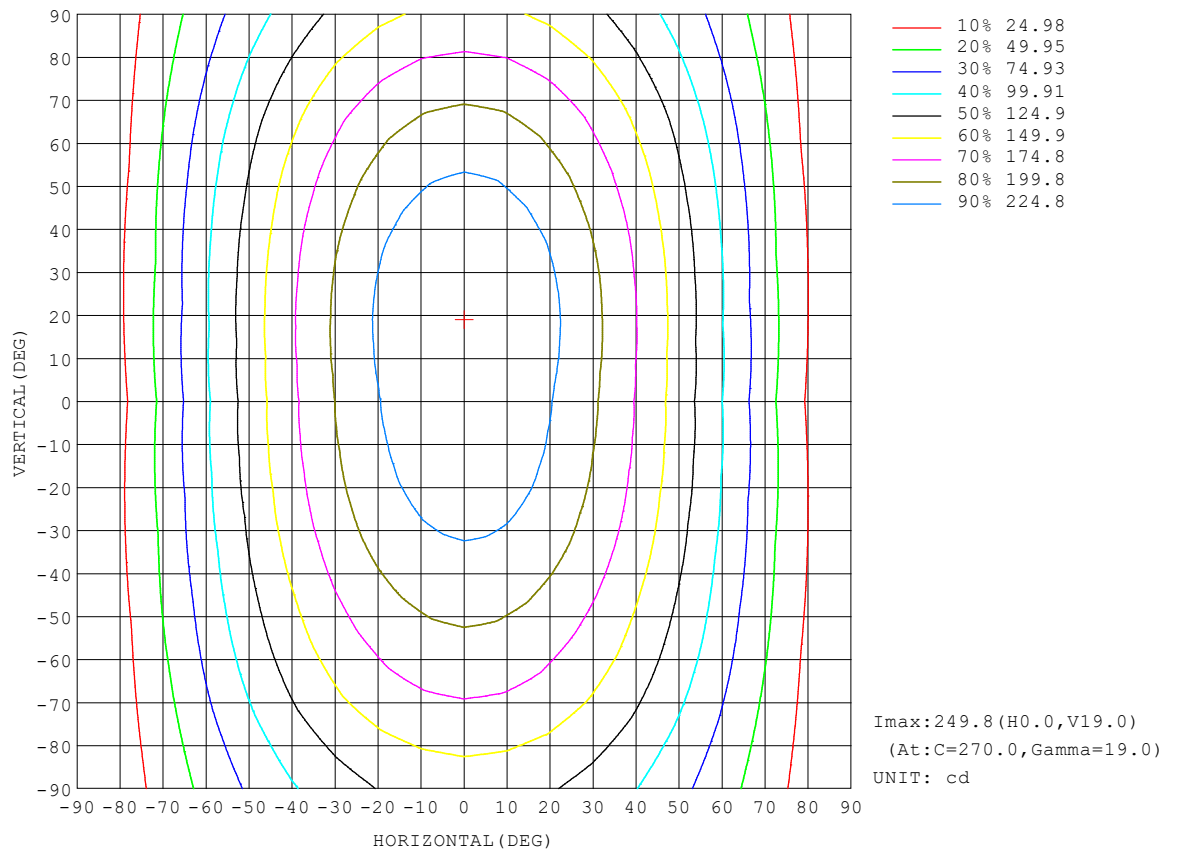
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	48	35	28	47	35	27	45	34	27	20
0.80	57	43	35	55	43	35	53	42	34	27
1.00	64	51	42	63	50	42	60	51	41	33
1.25	71	58	49	69	57	49	66	55	48	38
1.50	76	64	55	74	62	54	70	60	52	43
2.00	84	72	63	81	70	62	76	67	60	49
2.50	88	78	69	85	76	68	80	72	65	53
3.00	92	82	74	89	80	73	83	76	70	57
4.00	97	88	81	93	86	79	87	81	75	62
5.00	100	93	86	96	90	84	90	84	79	66
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:120.2V I:0.1556A P:17.16W PF:0.9179 Freq:60.00Hz Lamp Flux:1153.47x1 lm		
NAME: Jensen	TYPE:--	SERIAL No.:FTS23101004L-01
SPEC.:S07018	DIM.: --	
MFR.: Matteo	SUR.:420mm	

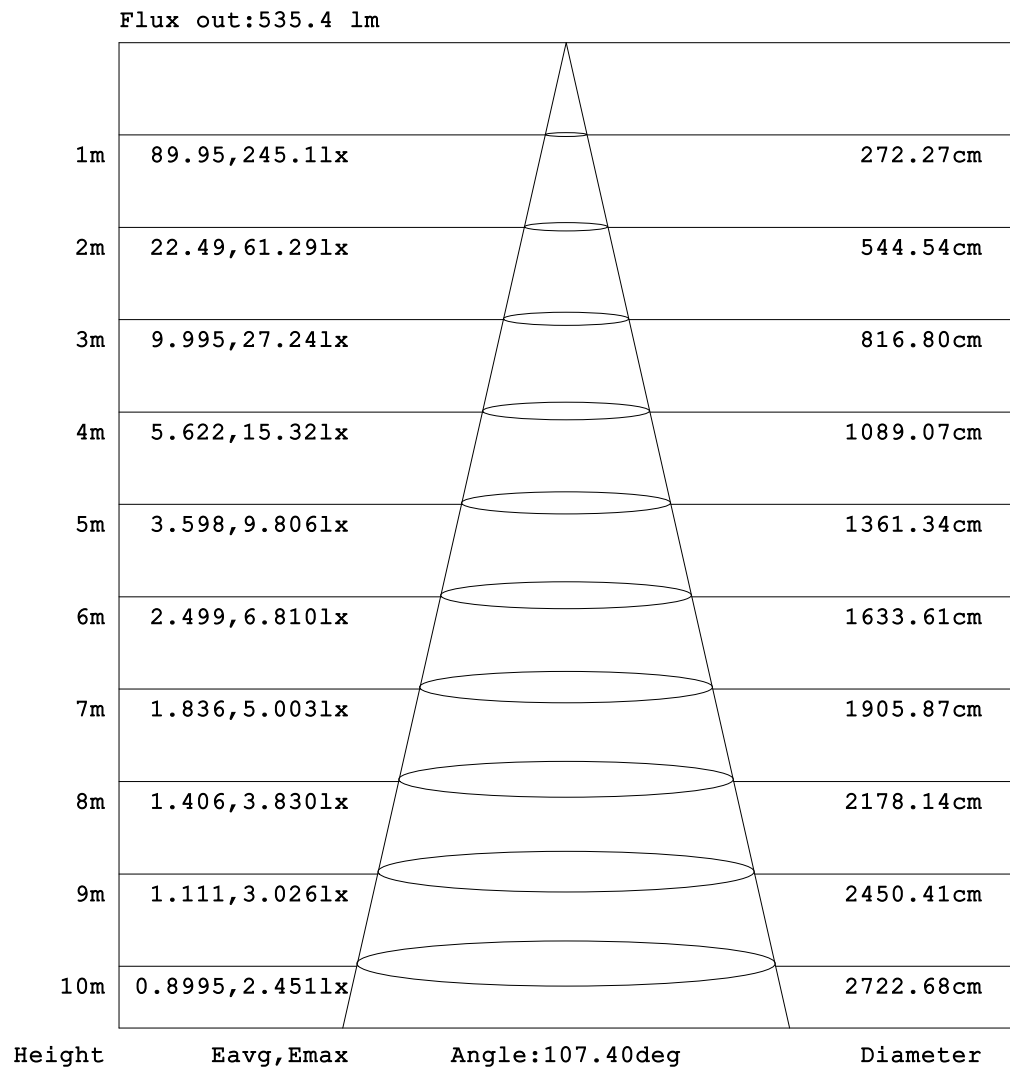


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-10-10

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: ---

AAI Figure

Test:U:120.2V I:0.1556A P:17.16W PF:0.9179 Freq:60.00Hz Lamp Flux:1153.47x1 lm		
NAME: Jensen	TYPE:--	SERIAL No.:FTS23101004L-01
SPEC.:S07018	DIM.: --	
MFR.: Matteo	SUR.:420mm	



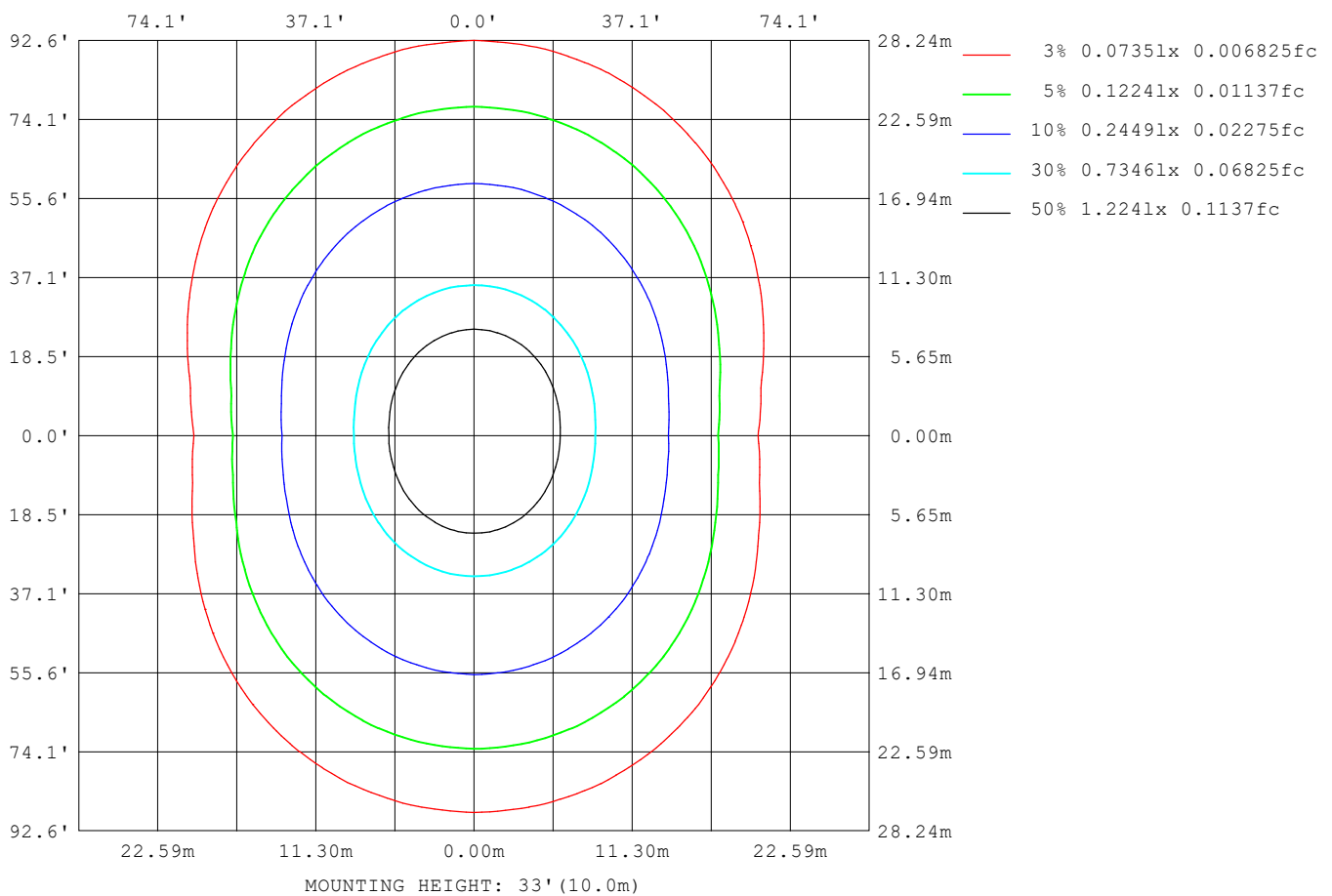
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

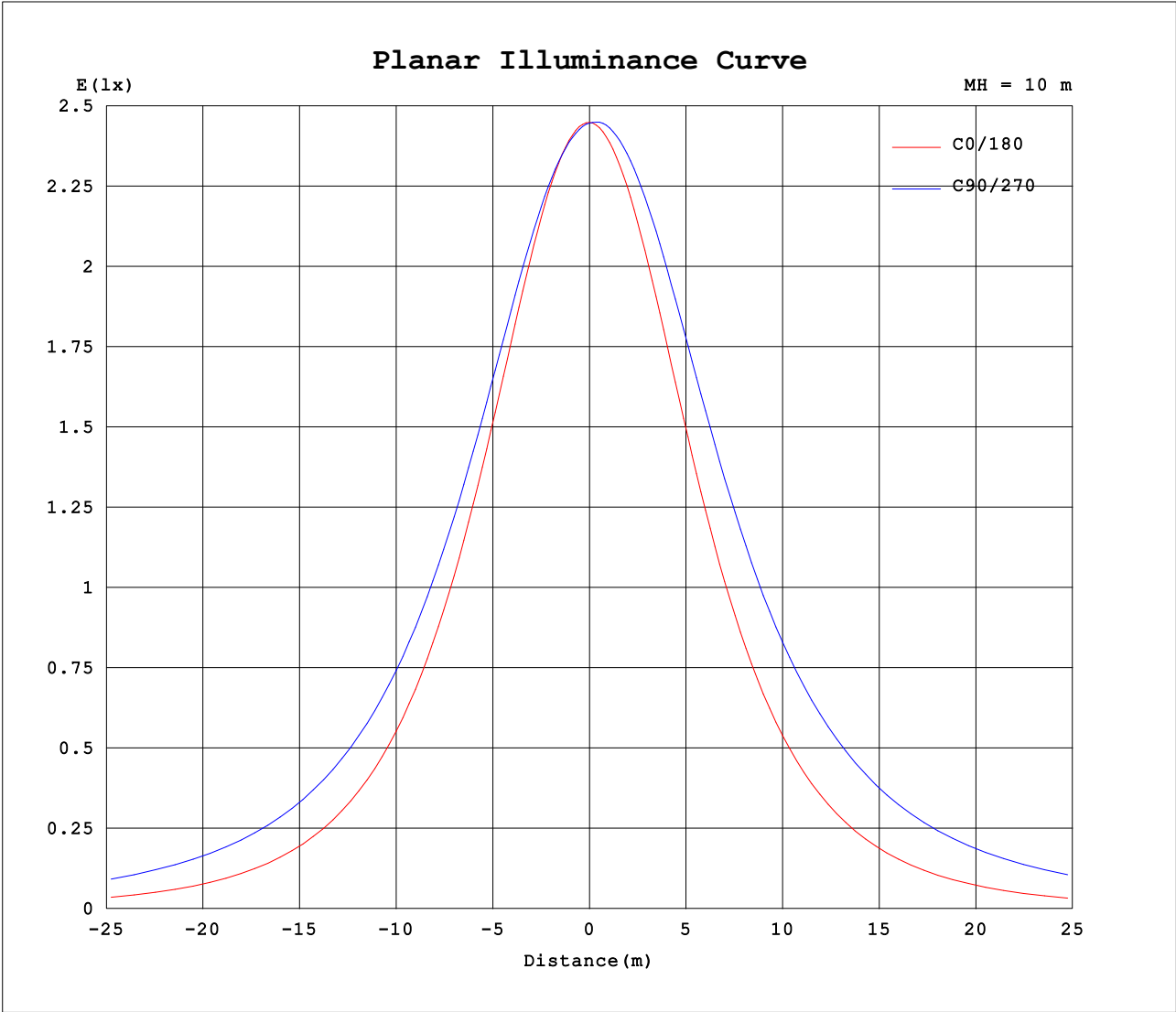
Test:U:120.2V I:0.1556A P:17.16W PF:0.9179 Freq:60.00Hz Lamp Flux:1153.47x1 lm		
NAME: Jensen	TYPE:--	SERIAL No.:FTS23101004L-01
SPEC.:S07018	DIM.: --	
MFR.: Matteo	SUR.:420mm	



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: ---

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

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: ---