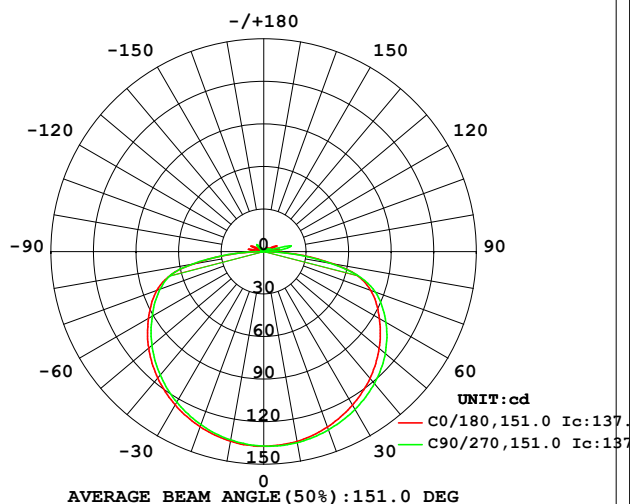


LUMINAIRE PHOTOMETRIC TEST REPORT

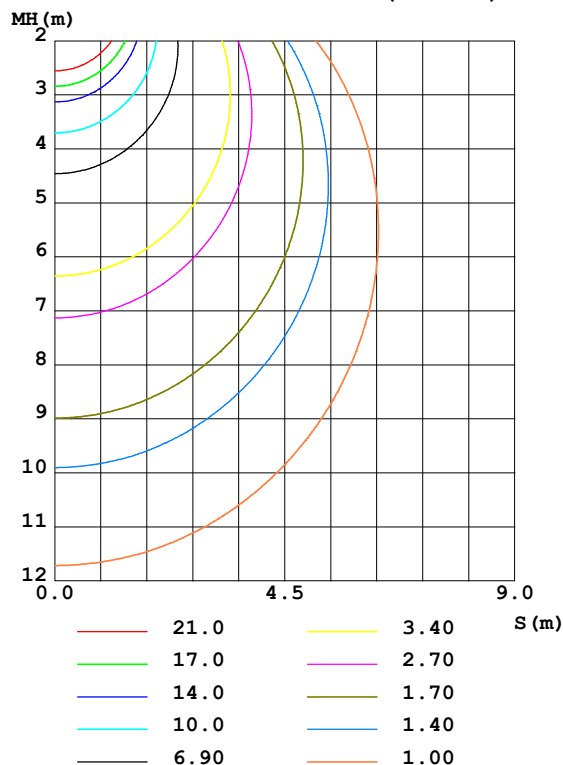
Test:U:120.08V I:0.1033A P:11.99W PF:0.9666 Freq:60.00Hz Lamp Flux:570.47x1 lm		
NAME: Wall Sconce	TYPE:--	SERIAL No.:FTS23050402L-01
SPEC.:W32708	DIM.: --	
MFR.: MATTEO	SUR.:175mm	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 47.58 lm/W			
MODEL	--	I _{max} (cd)	137.4	S/MH (C0/180)	1.36
NOMINAL POWER (W)	--	LOR (%)	100.0	S/MH (C90/270)	1.34
RATED VOLTAGE (V)	--	TOTAL FLUX (lm)	570.49	η UP, DN (C0-180)	2.3, 49.1
NOMINAL FLUX (lm)	570.47	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.6, 47.0
LAMPS INSIDE	1	η up (%)	3.9	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	--	η down (%)	96.1	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:2023-05-04

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	135.9	136.6	136.8	136.5	135.8	135.1	134.8	134.9	0- 10	13.03	13.03	2.28,2.28
20	131.6	133.1	133.7	133.2	131.4	130.2	129.9	130.0	10- 20	37.89	50.92	8.93,8.93
30	125.1	127.4	128.6	127.8	124.9	123.0	122.7	122.8	20- 30	59.43	110.4	19.3,19.3
40	116.7	119.9	121.4	120.3	116.4	114.0	113.7	113.9	30- 40	76.09	186.4	32.7,32.7
50	106.2	109.9	111.9	110.5	105.9	103.2	103.0	103.1	40- 50	86.63	273.1	47.9,47.9
60	94.20	97.63	99.49	98.20	93.89	91.09	90.79	90.95	50- 60	90.29	363.4	63.7,63.7
70	80.37	82.90	83.81	83.40	80.23	78.03	77.79	77.42	60- 70	87.08	450.4	79,79
80	48.95	48.33	47.60	51.47	50.05	50.45	51.06	47.24	70- 80	72.16	522.6	91.6,91.6
90	1.283	1.336	1.845	1.493	1.241	0.8887	1.063	0.4697	80- 90	25.50	548.1	96.1,96.1
100	11.17	7.820	18.51	6.753	10.66	2.039	1.514	2.517	90-100	5.373	553.5	97,97
110	3.954	4.086	1.559	4.253	4.443	5.745	1.040	4.657	100-110	4.958	558.4	97.9,97.9
120	5.363	2.015	4.310	2.035	4.191	5.593	2.308	4.780	110-120	5.035	563.5	98.8,98.8
130	1.992	3.800	2.662	3.735	2.183	3.210	5.154	3.367	120-130	2.686	566.2	99.2,99.2
140	1.645	1.475	2.116	1.441	1.557	1.188	1.488	1.154	130-140	2.228	568.4	99.6,99.6
150	1.591	1.222	1.216	1.222	1.318	1.660	1.860	2.492	140-150	0.9857	569.4	99.8,99.8
160	1.316	1.399	1.625	1.407	1.311	1.243	1.256	1.250	150-160	0.6197	570.0	99.9,99.9
170	1.330	1.337	1.339	1.327	1.284	1.278	1.311	1.291	160-170	0.3742	570.4	100,100
180	1.311	1.311	1.298	1.304	1.298	1.311	1.298	1.304	170-180	0.1252	570.5	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 228.87 lm

%lum = 40.1%

%lamp = 40.1%

Conical surface Flux(120deg): 363.37 lm

%lum = 63.7%

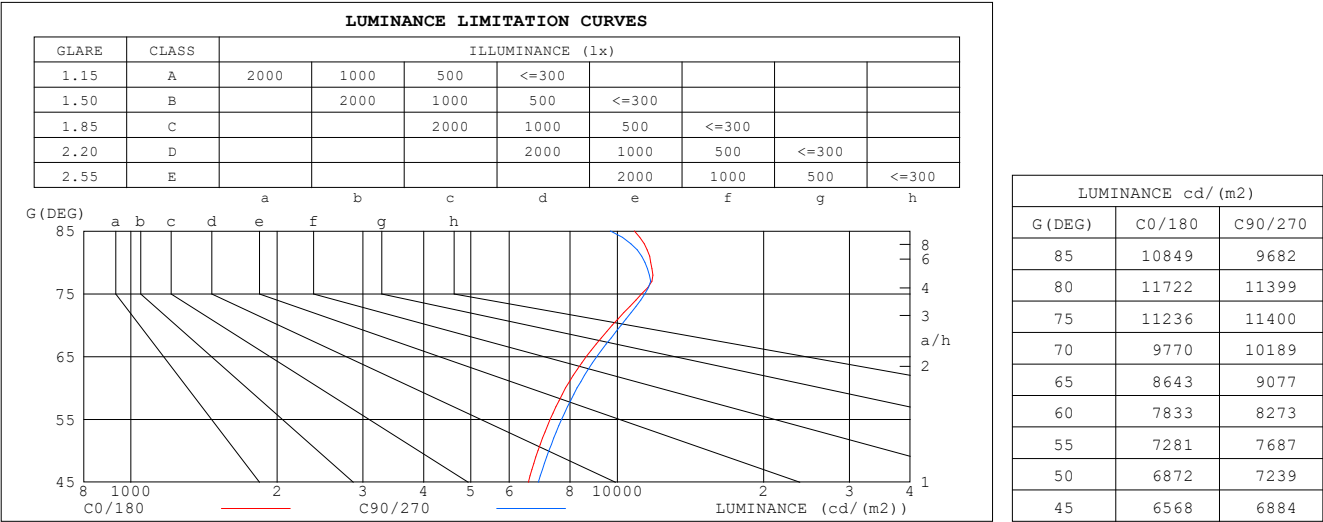
%lamp = 63.7%

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-05-04

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:120.08V I:0.1033A P:11.99W PF:0.9666 Freq:60.00Hz Lamp Flux:570.47x1 lm		
NAME: Wall Sconce	TYPE:--	SERIAL No.:FTS23050402L-01
SPEC.:W32708	DIM.: --	
MFR.: MATTEO	SUR.:175mm	



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-05-04

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: ---

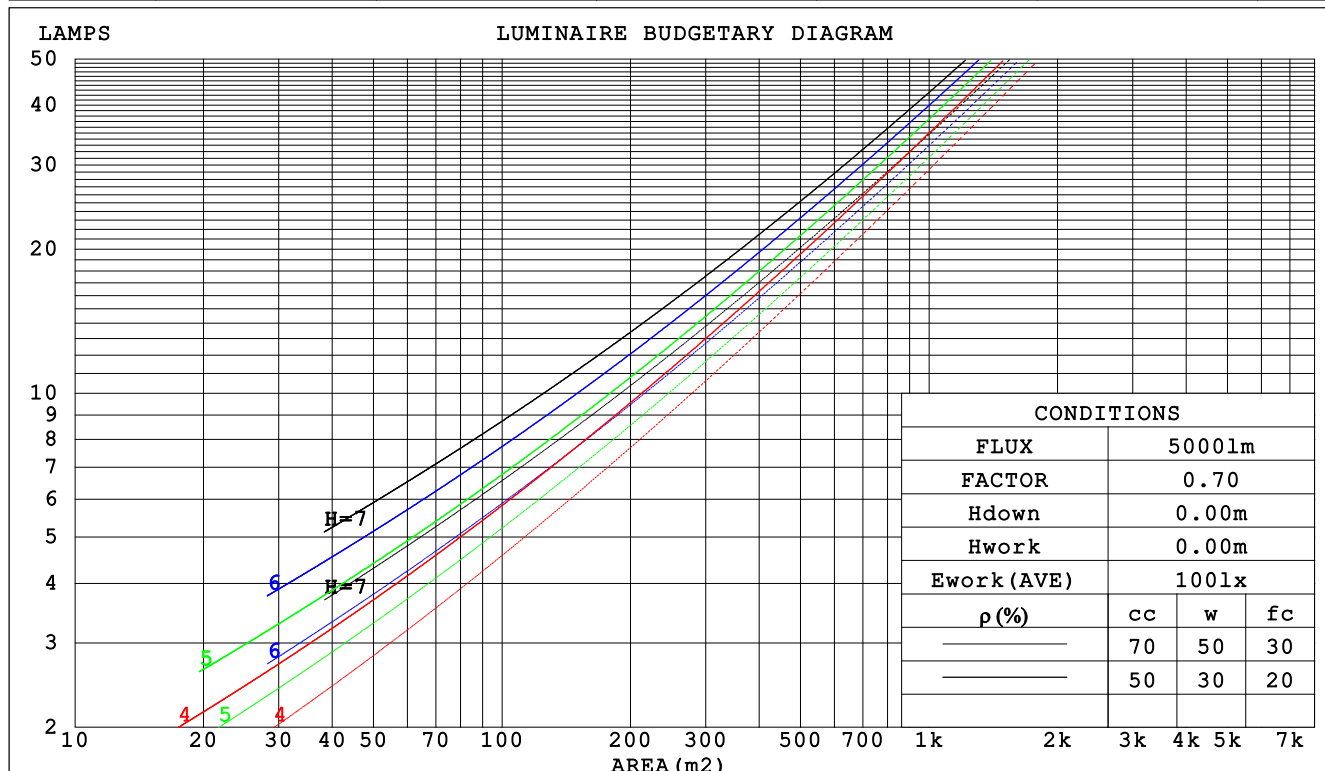
GONIOPHOTOMETERS SYSTEM TEST REPORT

Page 4 Of 11

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.08V I:0.1033A P:11.99W PF:0.9666 Freq:60.00Hz Lamp Flux:570.47x1 lm		
NAME: Wall Sconce	TYPE:--	SERIAL No.:FTS23050402L-01
SPEC.:W32708	DIM.: --	
MFR.: MATTEO	SUR.:175mm	

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	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.03	1.03	1.03	.98	.98	.98	.96
1.0	.99	.94	.89	.97	.92	.88	.92	.88	.84	.87	.84	.81	.83	.80	.78	.75
2.0	.84	.76	.70	.82	.75	.69	.78	.72	.66	.74	.69	.64	.70	.66	.62	.60
3.0	.73	.63	.56	.71	.62	.55	.67	.60	.54	.64	.58	.52	.61	.55	.51	.48
4.0	.64	.54	.46	.62	.53	.46	.59	.51	.45	.56	.49	.44	.53	.47	.43	.40
5.0	.56	.46	.39	.55	.46	.39	.52	.44	.38	.50	.43	.37	.47	.41	.36	.34
6.0	.50	.41	.34	.49	.40	.33	.47	.39	.33	.45	.37	.32	.43	.36	.31	.29
7.0	.45	.36	.29	.44	.35	.29	.42	.34	.28	.40	.33	.28	.39	.32	.27	.25
8.0	.41	.32	.26	.40	.32	.26	.39	.31	.25	.37	.30	.25	.35	.29	.24	.22
9.0	.38	.29	.23	.37	.29	.23	.35	.28	.22	.34	.27	.22	.33	.26	.22	.20
10.0	.35	.26	.21	.34	.26	.21	.33	.25	.20	.31	.25	.20	.30	.24	.20	.18



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason Huang
 Test Date:2023-05-04

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

Page 5 Of 11

WEC AND CCEC

Test:U:120.08V I:0.1033A P:11.99W PF:0.9666 Freq:60.00Hz Lamp Flux:570.47x1 lm		
NAME: Wall Sconce	TYPE:--	SERIAL No.:FTS23050402L-01
SPEC.:W32708	DIM.: --	
MFR.: MATTEO	SUR.:175mm	

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	.377	.214	.068	.368	.210	.067	.352	.202	.065	.338	.195	.063	.325	.188	.061		
2.0	.340	.186	.057	.332	.183	.056	.318	.177	.055	.305	.171	.054	.293	.166	.052		
3.0	.306	.163	.049	.299	.160	.048	.286	.155	.047	.275	.151	.046	.264	.146	.045		
4.0	.277	.144	.042	.271	.142	.042	.259	.137	.041	.249	.133	.040	.239	.130	.040		
5.0	.252	.128	.037	.246	.126	.037	.236	.123	.036	.227	.120	.036	.218	.116	.035		
6.0	.231	.116	.033	.226	.114	.033	.217	.111	.032	.208	.108	.032	.200	.105	.031		
7.0	.212	.105	.030	.208	.104	.030	.200	.101	.029	.192	.099	.029	.185	.096	.028		
8.0	.197	.096	.027	.193	.095	.027	.186	.093	.026	.179	.090	.026	.172	.088	.026		
9.0	.183	.089	.025	.180	.088	.025	.173	.086	.024	.167	.084	.024	.161	.082	.024		
10.0	.171	.082	.023	.168	.081	.023	.162	.079	.022	.156	.078	.022	.151	.076	.022		

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	.220	.220	.220	.188	.188	.188	.129	.129	.129	.074	.074	.074	.024	.024	.024	
1.0	.215	.186	.159	.184	.159	.137	.126	.110	.095	.072	.063	.055	.023	.020	.018	
2.0	.209	.162	.123	.179	.139	.106	.123	.096	.074	.071	.056	.043	.023	.018	.014	
3.0	.202	.145	.100	.173	.125	.086	.119	.087	.061	.069	.051	.036	.022	.016	.012	
4.0	.194	.132	.085	.167	.114	.074	.115	.080	.052	.066	.047	.031	.021	.015	.010	
5.0	.186	.122	.075	.160	.106	.065	.110	.074	.046	.064	.043	.027	.021	.014	.009	
6.0	.179	.114	.068	.154	.099	.059	.106	.069	.042	.062	.041	.025	.020	.013	.008	
7.0	.171	.107	.062	.148	.093	.054	.102	.065	.038	.059	.038	.023	.019	.013	.008	
8.0	.165	.102	.058	.142	.088	.051	.098	.062	.036	.057	.036	.021	.018	.012	.007	
9.0	.158	.097	.055	.136	.084	.048	.094	.059	.034	.055	.035	.020	.018	.011	.007	
10.0	.152	.092	.053	.131	.080	.046	.091	.056	.033	.053	.033	.019	.017	.011	.006	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-05-04

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

Page 6 Of 11

UGR(Unified Glare Rating) Table

Test:U:120.08V I:0.1033A P:11.99W PF:0.9666 Freq:60.00Hz Lamp Flux:570.47x1 lm										
NAME: Wall Sconce					TYPE:--			SERIAL No.:FTS23050402L-01		
SPEC.:W32708					DIM.: --					
MFR.: MATTEO					SUR.:175mm					
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	19.9	21.5	20.2	21.8	22.1	20.1	21.7	20.5	22.0	22.3
3H	22.4	23.9	22.8	24.2	24.6	22.7	24.2	23.0	24.5	24.8
4H	23.7	25.2	24.1	25.5	25.8	23.9	25.3	24.3	25.7	26.0
6H	24.8	26.2	25.2	26.5	26.9	24.9	26.2	25.3	26.6	27.0
8H	25.2	26.5	25.6	26.9	27.2	25.2	26.5	25.6	26.9	27.3
12H	25.4	26.7	25.8	27.1	27.5	25.4	26.6	25.8	27.0	27.4
4H 2H	20.8	22.3	21.2	22.6	23.0	21.0	22.4	21.4	22.8	23.1
3H	23.6	24.8	24.0	25.2	25.6	23.7	25.0	24.2	25.4	25.8
4H	25.0	26.1	25.4	26.6	27.0	25.1	26.3	25.6	26.7	27.1
6H	26.2	27.2	26.7	27.7	28.1	26.2	27.3	26.7	27.7	28.2
8H	26.6	27.6	27.1	28.0	28.5	26.6	27.6	27.1	28.0	28.5
12H	26.9	27.8	27.4	28.3	28.8	26.8	27.7	27.3	28.2	28.7
8H 4H	25.5	26.5	26.0	27.0	27.4	25.6	26.6	26.1	27.1	27.5
6H	26.9	27.7	27.4	28.2	28.7	26.9	27.8	27.4	28.2	28.8
8H	27.4	28.2	28.0	28.7	29.2	27.4	28.2	27.9	28.6	29.2
12H	27.8	28.5	28.4	29.0	29.6	27.7	28.4	28.3	28.9	29.5
12H 4H	25.6	26.5	26.1	27.0	27.5	25.7	26.6	26.2	27.1	27.6
6H	27.0	27.8	27.6	28.3	28.8	27.1	27.8	27.6	28.3	28.8
8H	27.6	28.3	28.2	28.8	29.3	27.6	28.2	28.1	28.8	29.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 570.5 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -2.0)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-05-04

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:120.08V I:0.1033A P:11.99W PF:0.9666 Freq:60.00Hz Lamp Flux:570.47x1 lm		
NAME: Wall Sconce	TYPE:--	SERIAL No.:FTS23050402L-01
SPEC.:W32708	DIM.: --	
MFR.: MATTEO	SUR.:175mm	

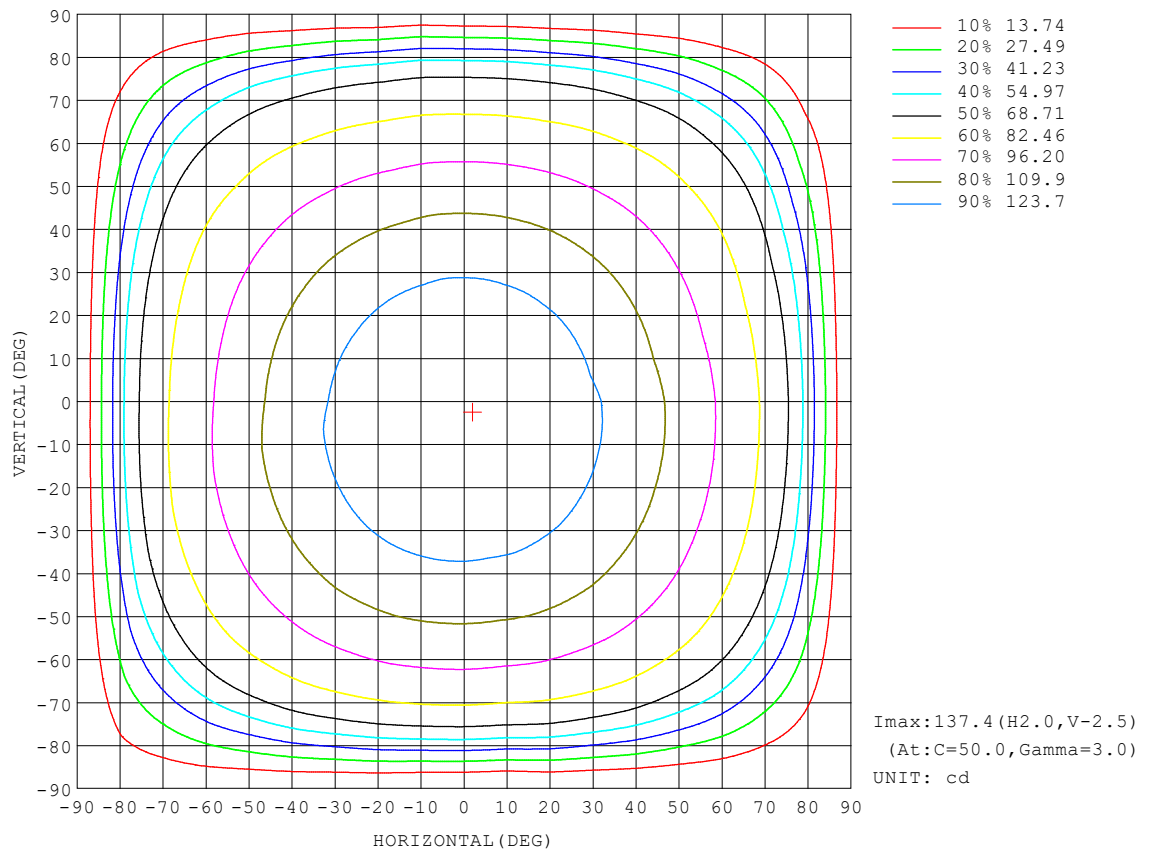
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	51	38	31	50	38	31	49	38	31	24
0.80	60	48	39	59	47	39	57	46	39	31
1.00	69	56	47	67	55	47	64	57	46	38
1.25	76	63	55	74	63	55	71	61	54	45
1.50	81	69	61	79	68	60	75	66	59	50
2.00	89	78	70	86	77	69	82	74	68	58
2.50	93	84	76	91	82	75	86	79	73	63
3.00	97	89	82	94	87	80	90	83	78	68
4.00	102	95	89	99	93	87	94	89	84	73
5.00	105	99	94	102	96	92	97	92	88	77
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:2023-05-04

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:120.08V I:0.1033A P:11.99W PF:0.9666 Freq:60.00Hz Lamp Flux:570.47x1 lm		
NAME: Wall Sconce	TYPE:--	SERIAL No.:FTS23050402L-01
SPEC.:W32708	DIM.: --	
MFR.: MATTEO	SUR.:175mm	

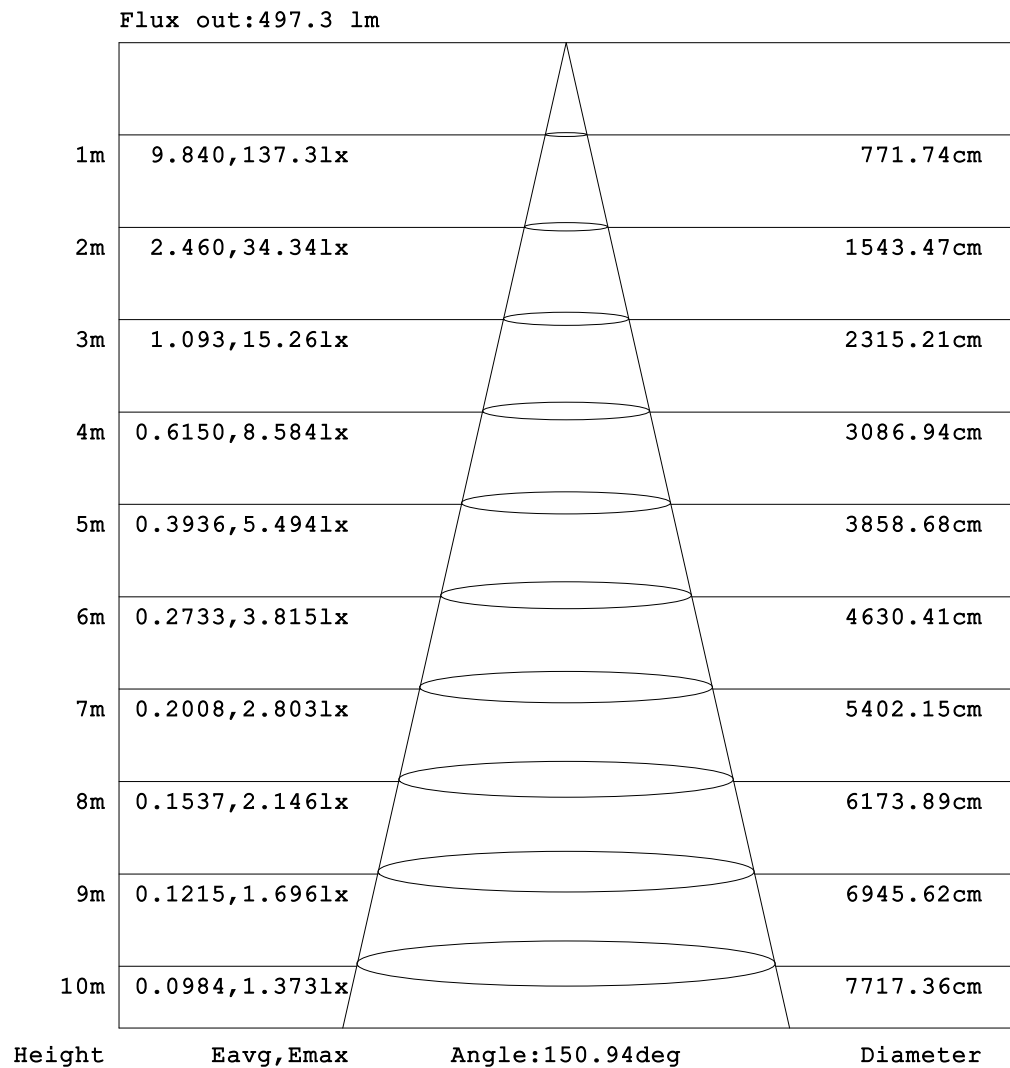


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-05-04

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:120.08V I:0.1033A P:11.99W PF:0.9666 Freq:60.00Hz Lamp Flux:570.47x1 lm		
NAME: Wall Sconce	TYPE:--	SERIAL No.:FTS23050402L-01
SPEC.:W32708	DIM.: --	
MFR.: MATTEO	SUR.:175mm	



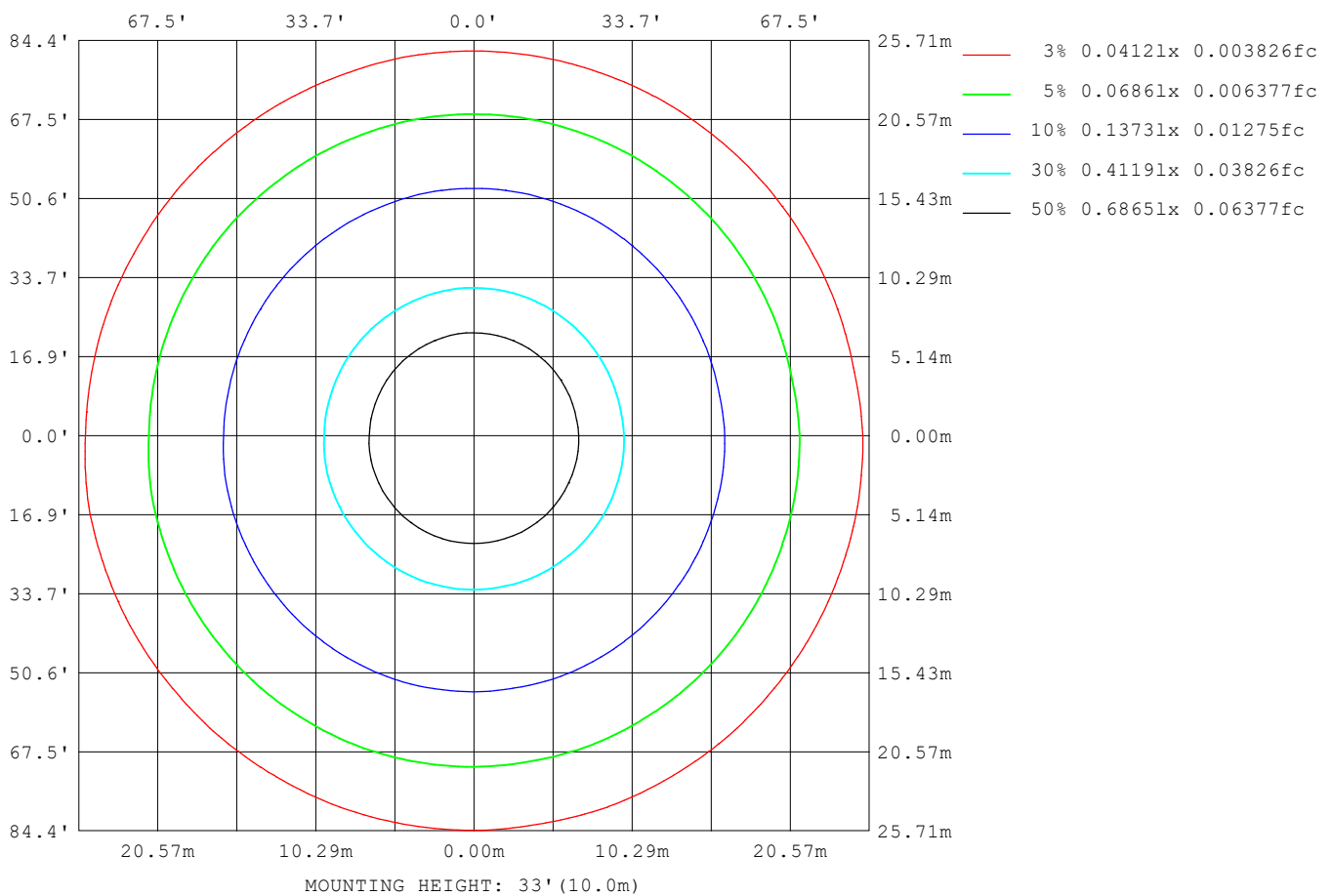
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason Huang
 Test Date:2023-05-04

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

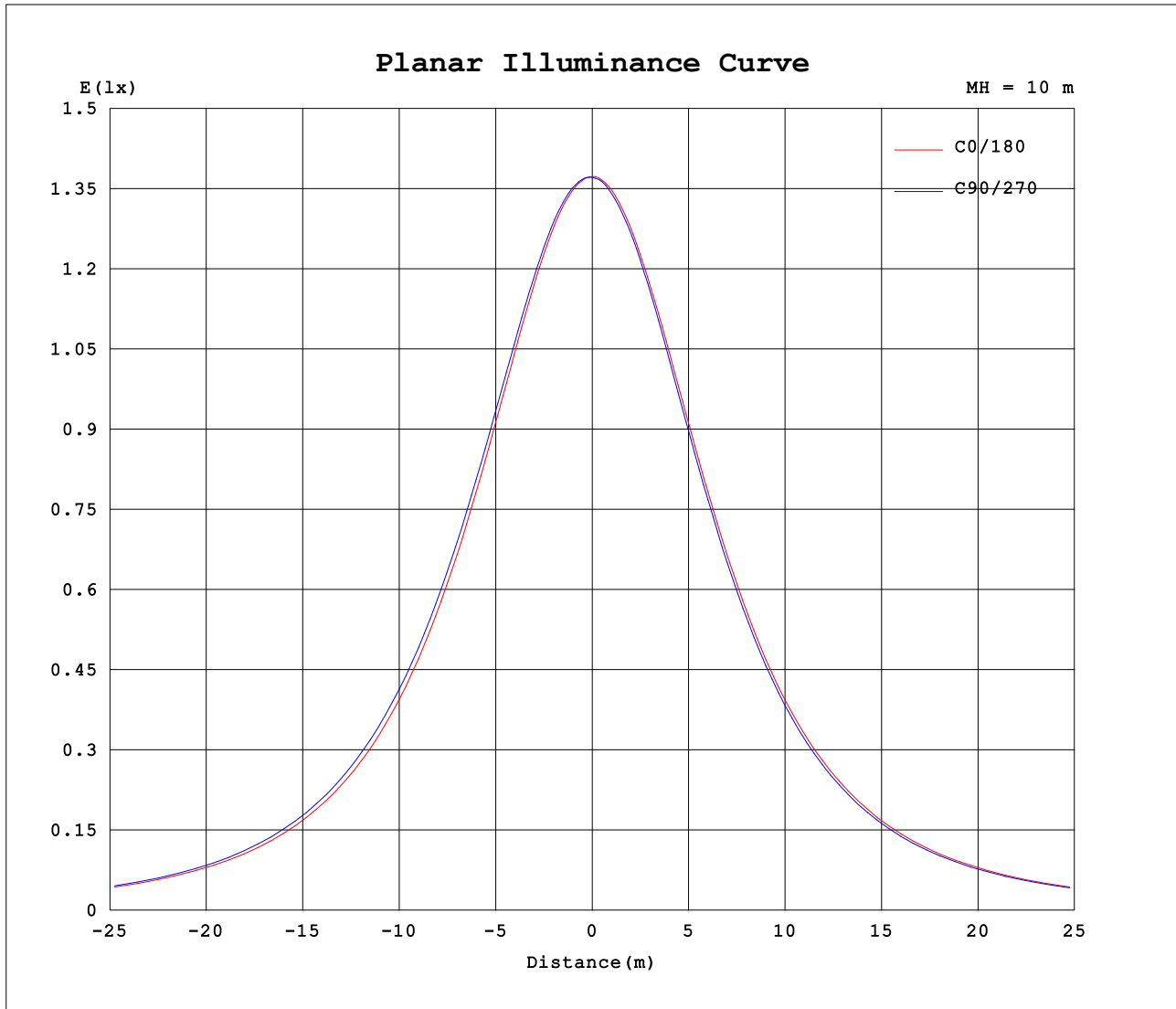
Test:U:120.08V I:0.1033A P:11.99W PF:0.9666 Freq:60.00Hz Lamp Flux:570.47x1 lm		
NAME: Wall Sconce	TYPE:--	SERIAL No.:FTS23050402L-01
SPEC.:W32708	DIM.: --	
MFR.: MATTEO	SUR.:175mm	



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-05-04

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: 2023-05-04

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: ---