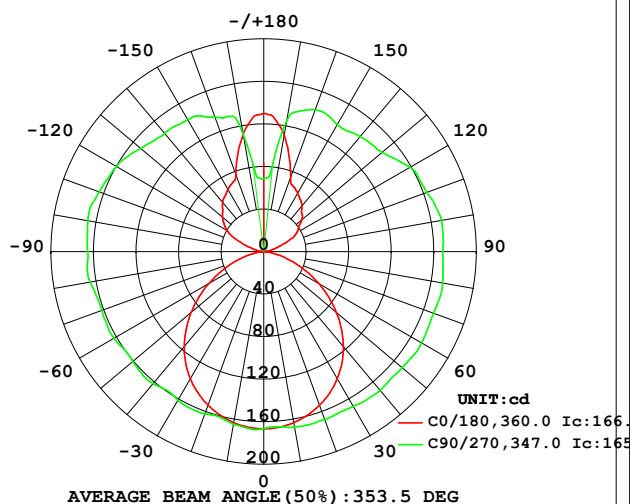


LUMINAIRE PHOTOMETRIC TEST REPORT

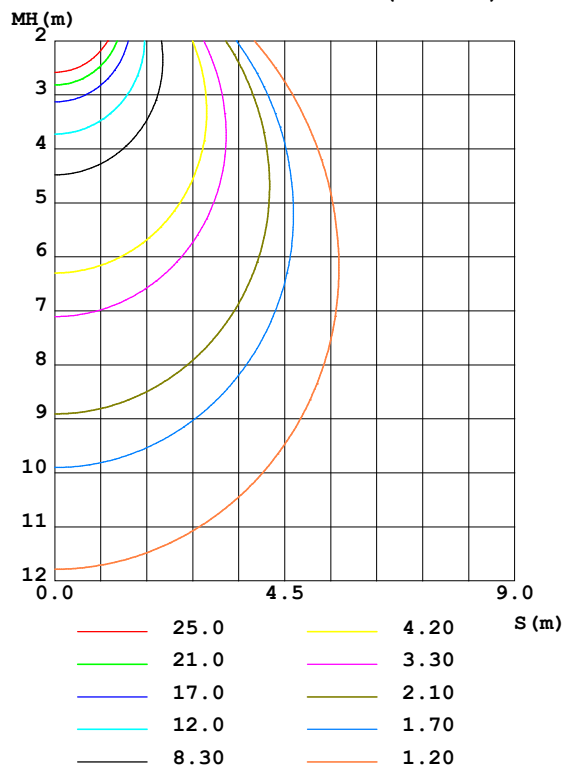
Test:U:120.04V I:0.1370A P:16.07W PF:0.9772 Freq:60.00Hz Lamp Flux:1404.01x1 lm		
NAME: Wall/Vanity	TYPE:--	SERIAL No.:FTS23050402L-06
SPEC.:S06432	DIM.: --	
MFR.: MATTEO	SUR.:800mm	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 87.37 lm/W
MODEL	--	I _{max} (cd)	171.9	S/MH (C0/180)	1.24	
NOMINAL POWER (W)	--	LOR (%)	100.0	S/MH (C90/270)	1.48	
RATED VOLTAGE (V)	--	TOTAL FLUX (lm)	1404.0	η UP, DN (C0-180)	22.5, 27.8	
NOMINAL FLUX (lm)	1404.01	CIE CLASS	DIFFUSE	η UP, DN (C180-360)	22.9, 26.8	
LAMPS INSIDE	1	η up (%)	45.4	CIBSE SHR NOM	1.50	
TEST VOLTAGE (V)	--	η down (%)	54.6	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:2023-05-05

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	163.3	164.9	167.6	165.5	163.3	164.5	164.8	164.7	0- 10	15.82	15.82	1.13,1.13
20	153.8	161.8	168.3	161.9	153.6	155.5	162.3	156.0	10- 20	45.91	61.73	4.4,4.4
30	138.2	153.9	168.2	154.6	138.1	148.7	161.3	150.5	20- 30	71.97	133.7	9.52,9.52
40	116.6	145.2	170.4	146.8	116.3	138.0	162.1	140.2	30- 40	92.07	225.8	16.1,16.1
50	89.42	135.5	169.8	137.0	89.12	126.9	160.6	131.1	40- 50	105.4	331.2	23.6,23.6
60	59.46	124.9	171.3	127.4	59.09	116.5	162.9	121.4	50- 60	111.3	442.5	31.5,31.5
70	30.49	115.6	169.9	118.4	30.59	108.2	162.0	114.6	60- 70	111.4	553.8	39.4,39.4
80	8.058	108.1	170.8	111.5	8.377	101.2	165.6	108.9	70- 80	107.8	661.7	47.1,47.1
90	1.326	104.0	168.5	107.5	1.175	99.77	165.6	107.5	80- 90	104.9	766.6	54.6,54.6
100	5.097	104.3	169.7	107.1	5.098	102.7	167.9	110.5	90-100	104.1	870.7	62,62
110	17.56	103.6	163.2	106.3	19.23	104.0	164.6	110.4	100-110	102.5	973.1	69.3,69.3
120	36.12	102.2	158.9	103.9	39.87	104.9	160.2	110.4	110-120	98.83	1072	76.4,76.4
130	46.68	105.5	145.5	106.4	50.65	105.0	150.9	111.7	120-130	91.81	1164	82.9,82.9
140	55.75	113.0	141.2	110.6	60.35	109.9	145.1	118.4	130-140	81.64	1245	88.7,88.7
150	63.78	122.2	138.2	94.49	67.59	93.16	143.1	124.3	140-150	67.37	1313	93.5,93.5
160	74.29	128.1	142.0	77.88	77.36	79.57	134.6	131.5	150-160	49.69	1362	97,97
170	111.4	134.7	125.0	92.51	112.1	96.35	112.1	133.3	160-170	30.69	1393	99.2,99.2
180	130.1	129.7	68.74	127.7	130.2	129.7	68.88	127.8	170-180	10.85	1404	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 277.32 lm

%lum = 19.8%

%lamp = 19.8%

Conical surface Flux(120deg): 442.47 lm

%lum = 31.5%

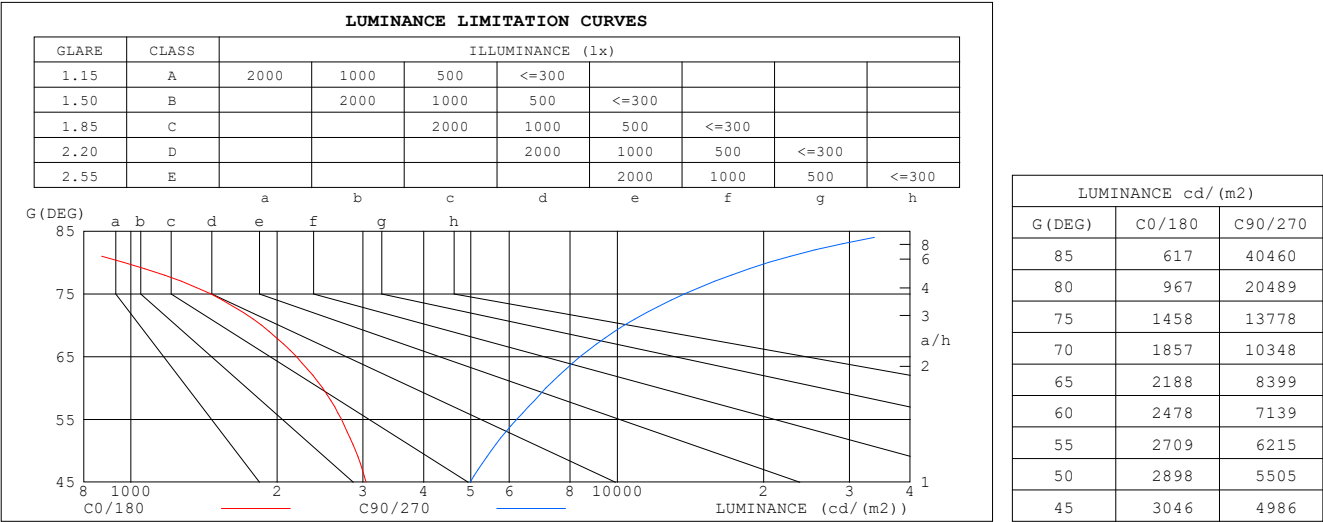
%lamp = 31.5%

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

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:120.04V I:0.1370A P:16.07W PF:0.9772 Freq:60.00Hz Lamp Flux:1404.01x1 lm		
NAME: Wall/Vanity	TYPE:--	SERIAL No.:FTS23050402L-06
SPEC.:S06432	DIM.: --	
MFR.: MATTEO	SUR.:800mm	



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

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: ---

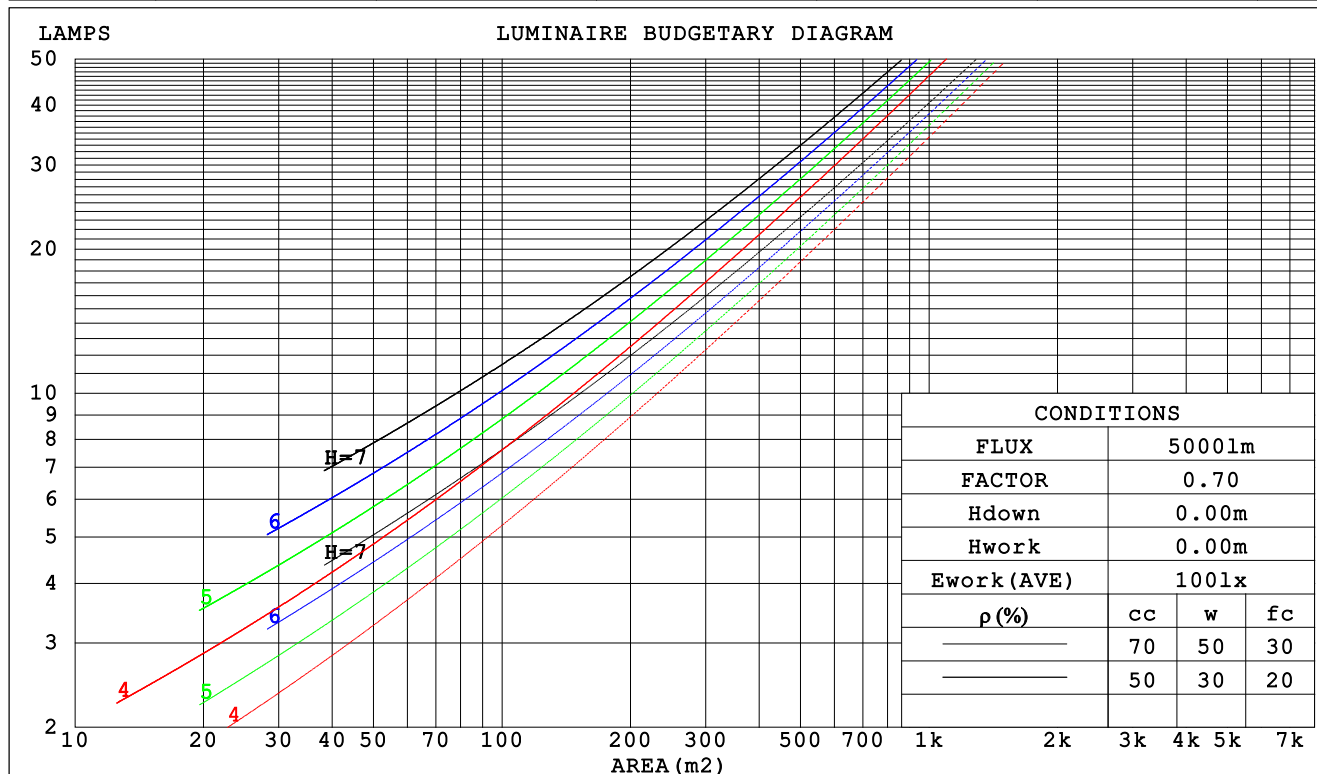
GONIOPHOTOMETERS SYSTEM TEST REPORT

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.04V I:0.1370A P:16.07W PF:0.9772 Freq:60.00Hz Lamp Flux:1404.01x1 lm		
NAME: Wall/Vanity	TYPE:--	SERIAL No.:FTS23050402L-06
SPEC.:S06432	DIM.: --	
MFR.: MATTEO	SUR.:800mm	

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	1.08	1.08	1.08	1.00	1.00	1.00	.86	.86	.86	.73	.73	.73	.60	.60	.60	.55
1.0	.89	.84	.80	.83	.78	.74	.70	.67	.63	.59	.56	.53	.48	.46	.44	.39
2.0	.76	.69	.62	.71	.64	.58	.60	.54	.50	.50	.46	.42	.40	.37	.35	.30
3.0	.66	.58	.51	.61	.53	.47	.52	.46	.41	.43	.38	.34	.35	.31	.28	.24
4.0	.58	.49	.42	.54	.46	.39	.45	.39	.34	.38	.33	.29	.31	.27	.24	.20
5.0	.51	.42	.35	.47	.39	.33	.40	.34	.29	.34	.28	.24	.27	.23	.20	.17
6.0	.46	.37	.30	.42	.34	.28	.36	.30	.25	.30	.25	.21	.25	.20	.17	.14
7.0	.41	.32	.26	.38	.30	.25	.33	.26	.22	.27	.22	.18	.22	.18	.15	.12
8.0	.37	.29	.23	.35	.27	.22	.30	.23	.19	.25	.20	.16	.20	.16	.13	.11
9.0	.34	.26	.20	.32	.24	.19	.27	.21	.17	.23	.18	.14	.19	.15	.12	.10
10.0	.31	.23	.18	.29	.22	.17	.25	.19	.15	.21	.16	.13	.17	.14	.11	.09



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

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:120.04V I:0.1370A P:16.07W PF:0.9772 Freq:60.00Hz Lamp Flux:1404.01x1 lm											
NAME: Wall/Vanity						TYPE:--			SERIAL No.:FTS23050402L-06		
SPEC.:S06432						DIM.: --					
MFR.: MATTEO						SUR.:800mm					

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	.356	.203	.064	.316	.181	.058	.280	.162	.052	.247	.143	.046	
2.0	.321	.176	.054	.302	.166	.051	.266	.148	.046	.233	.131	.041	.203	.115	.036	
3.0	.284	.151	.045	.267	.143	.043	.234	.127	.039	.203	.112	.034	.175	.097	.030	
4.0	.255	.133	.039	.239	.125	.037	.209	.111	.033	.181	.097	.029	.155	.084	.026	
5.0	.232	.118	.034	.217	.111	.032	.189	.099	.029	.164	.086	.026	.140	.075	.022	
6.0	.212	.106	.030	.199	.100	.029	.173	.089	.026	.150	.078	.023	.127	.067	.020	
7.0	.196	.097	.027	.183	.091	.026	.160	.081	.023	.138	.071	.021	.117	.061	.018	
8.0	.182	.089	.025	.170	.084	.024	.148	.074	.021	.128	.065	.019	.108	.056	.016	
9.0	.169	.082	.023	.159	.077	.022	.138	.068	.019	.119	.060	.017	.101	.051	.015	
10.0	.158	.076	.021	.148	.072	.020	.129	.063	.018	.111	.055	.016	.095	.048	.014	

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	.536	.536	.536	.458	.458	.458	.313	.313	.313	.180	.180	.180	.057	.057	.057	
1.0	.534	.504	.478	.457	.433	.411	.312	.298	.284	.180	.172	.165	.058	.055	.053	
2.0	.527	.483	.446	.452	.416	.385	.310	.288	.269	.178	.167	.157	.057	.054	.051	
3.0	.520	.467	.425	.446	.403	.369	.306	.280	.259	.177	.164	.152	.057	.053	.050	
4.0	.513	.456	.412	.440	.394	.358	.303	.274	.252	.175	.161	.149	.056	.052	.049	
5.0	.506	.446	.403	.434	.386	.350	.299	.270	.247	.173	.158	.147	.056	.052	.048	
6.0	.499	.439	.396	.429	.380	.345	.296	.266	.244	.172	.157	.145	.055	.051	.048	
7.0	.492	.433	.391	.423	.375	.341	.292	.263	.242	.170	.155	.144	.055	.051	.048	
8.0	.486	.428	.388	.418	.371	.338	.289	.260	.240	.168	.154	.143	.054	.050	.047	
9.0	.480	.423	.385	.413	.367	.336	.286	.258	.238	.167	.152	.142	.054	.050	.047	
10.0	.474	.419	.383	.409	.364	.334	.284	.256	.237	.165	.151	.142	.054	.050	.047	

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

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:120.04V I:0.1370A P:16.07W PF:0.9772 Freq:60.00Hz Lamp Flux:1404.01x1 lm										
NAME: Wall/Vanity					TYPE:--			SERIAL No.:FTS23050402L-06		
SPEC.:S06432					DIM.: --					
MFR.: MATTEO					SUR.:800mm					
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	12.8	13.9	13.6	14.7	15.7	17.1	18.2	17.9	19.0	20.0
3H	13.8	14.8	14.6	15.6	16.7	20.3	21.3	21.2	22.2	23.3
4H	14.1	15.0	14.9	15.9	17.0	22.2	23.1	23.1	24.0	25.1
6H	14.2	15.1	15.1	15.9	17.1	24.3	25.2	25.2	26.1	27.2
8H	14.2	15.0	15.1	15.9	17.1	25.5	26.3	26.3	27.2	28.3
12H	14.1	14.9	15.0	15.8	17.0	26.8	27.6	27.7	28.5	29.6
4H 2H	14.7	15.6	15.5	16.5	17.6	17.5	18.5	18.4	19.3	20.4
3H	16.1	16.9	17.0	17.8	19.0	21.1	21.9	22.0	22.8	23.9
4H	16.7	17.4	17.6	18.3	19.5	23.1	23.9	24.1	24.8	26.0
6H	17.0	17.7	17.9	18.6	19.8	25.5	26.1	26.4	27.1	28.3
8H	17.1	17.7	18.0	18.6	19.8	26.8	27.4	27.7	28.3	29.6
12H	17.0	17.6	18.0	18.6	19.8	28.2	28.8	29.2	29.8	31.0
8H 4H	18.8	19.4	19.8	20.4	21.6	23.4	24.0	24.4	25.0	26.2
6H	19.7	20.2	20.7	21.2	22.5	26.1	26.6	27.1	27.6	28.8
8H	20.1	20.5	21.0	21.5	22.8	27.6	28.1	28.6	29.1	30.3
12H	20.2	20.6	21.2	21.6	22.9	29.4	29.8	30.4	30.8	32.1
12H 4H	19.6	20.2	20.5	21.1	22.3	23.4	24.0	24.4	24.9	26.2
6H	20.9	21.4	21.9	22.4	23.6	26.2	26.6	27.2	27.6	28.9
8H	21.5	21.9	22.5	22.9	24.2	27.8	28.2	28.8	29.2	30.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.1					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.4				

CIE Pub.117, 1404 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 1.2$)

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

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:120.04V I:0.1370A P:16.07W PF:0.9772 Freq:60.00Hz Lamp Flux:1404.01x1 lm		
NAME: Wall/Vanity	TYPE:--	SERIAL No.:FTS23050402L-06
SPEC.:S06432	DIM.: --	
MFR.: MATTEO	SUR.:800mm	

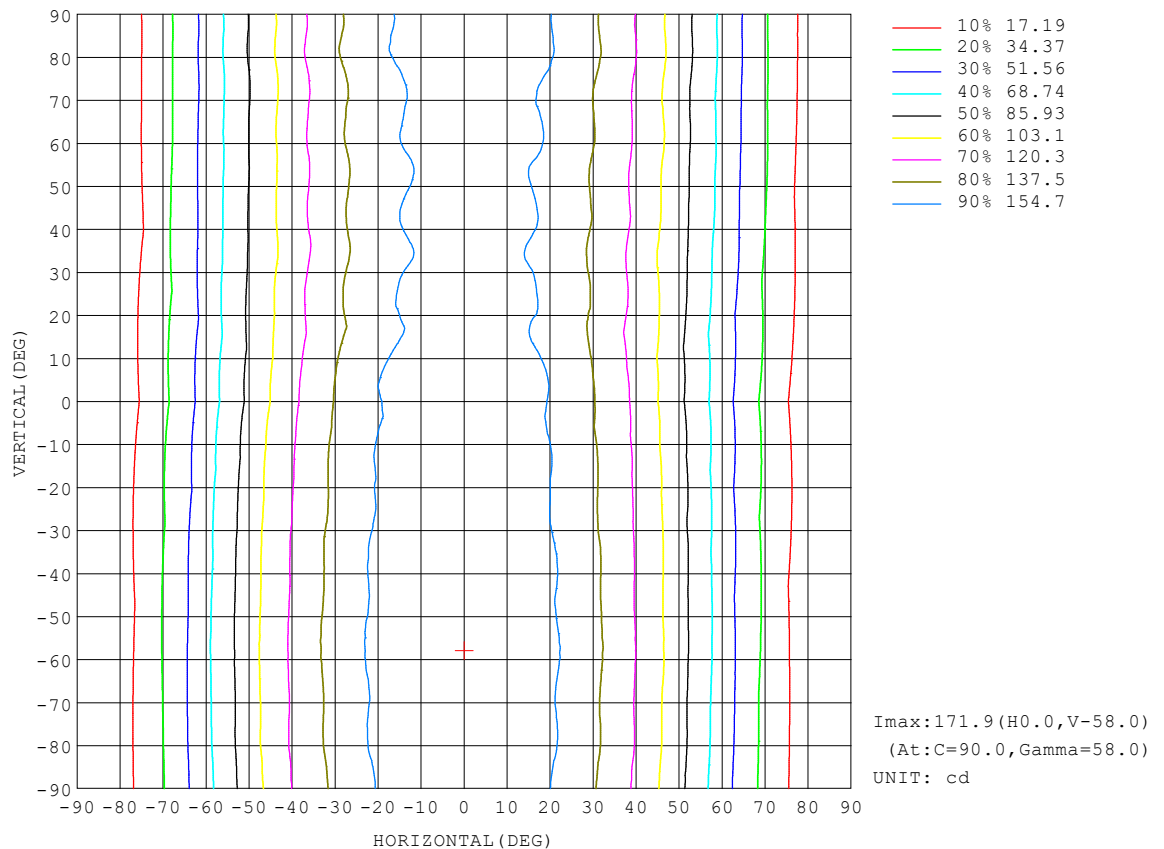
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	40	28	21	38	27	20	34	25	19	12
0.80	49	36	28	46	34	27	41	31	25	15
1.00	56	43	34	53	41	33	47	38	30	19
1.25	63	50	41	59	47	39	52	42	35	22
1.50	68	55	46	64	52	44	55	46	40	25
2.00	75	64	55	70	60	52	61	53	46	29
2.50	80	69	61	75	65	57	64	57	51	32
3.00	84	74	66	78	69	62	67	60	55	34
4.00	89	80	73	83	75	69	71	65	60	38
5.00	92	85	78	86	79	73	73	68	64	40
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:2023-05-05

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:120.04V I:0.1370A P:16.07W PF:0.9772 Freq:60.00Hz Lamp Flux:1404.01x1 lm		
NAME: Wall/Vanity	TYPE:--	SERIAL No.:FTS23050402L-06
SPEC.:S06432	DIM.: --	
MFR.: MATTEO	SUR.:800mm	

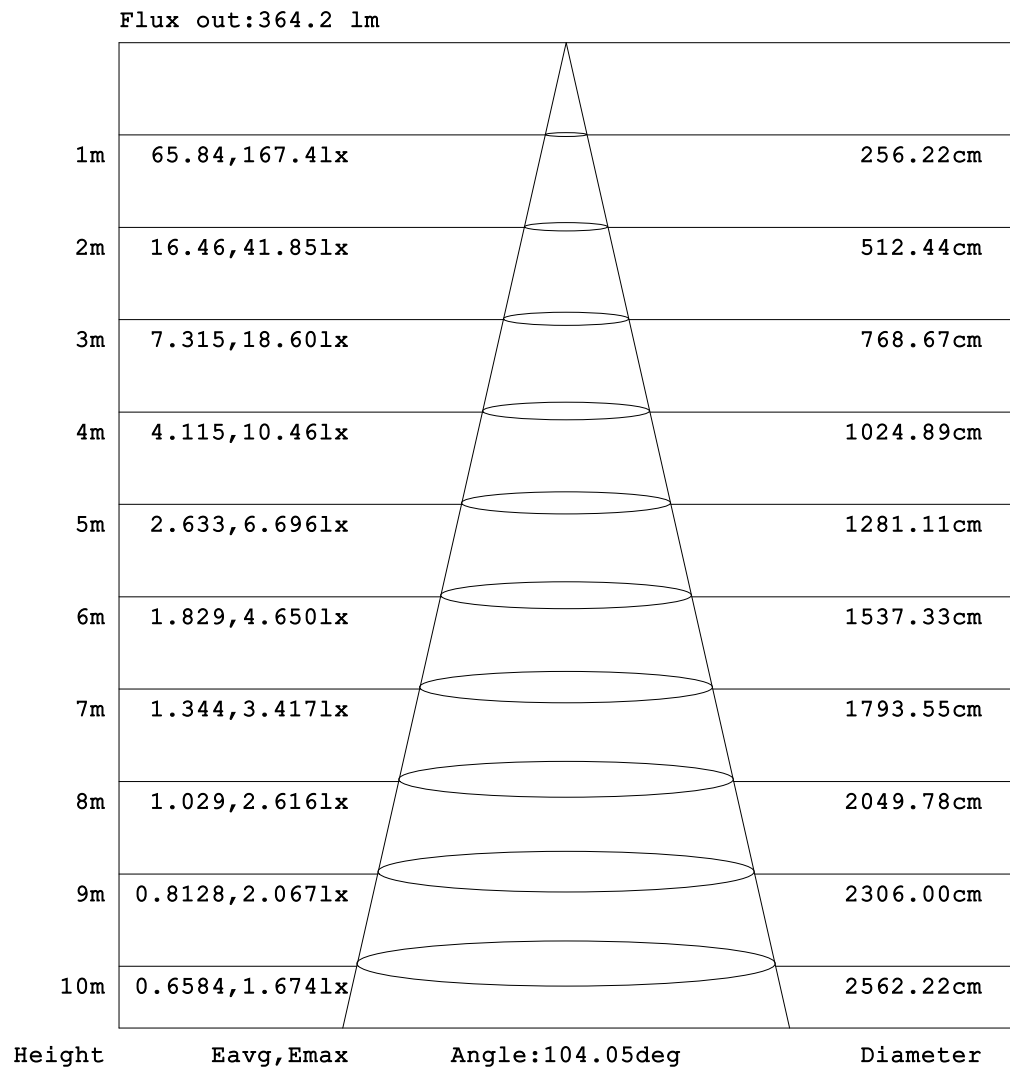


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Huang
Test Date:2023-05-05

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:120.04V I:0.1370A P:16.07W PF:0.9772 Freq:60.00Hz Lamp Flux:1404.01x1 lm		
NAME: Wall/Vanity	TYPE:--	SERIAL No.:FTS23050402L-06
SPEC.:S06432	DIM.: --	
MFR.: MATTEO	SUR.:800mm	



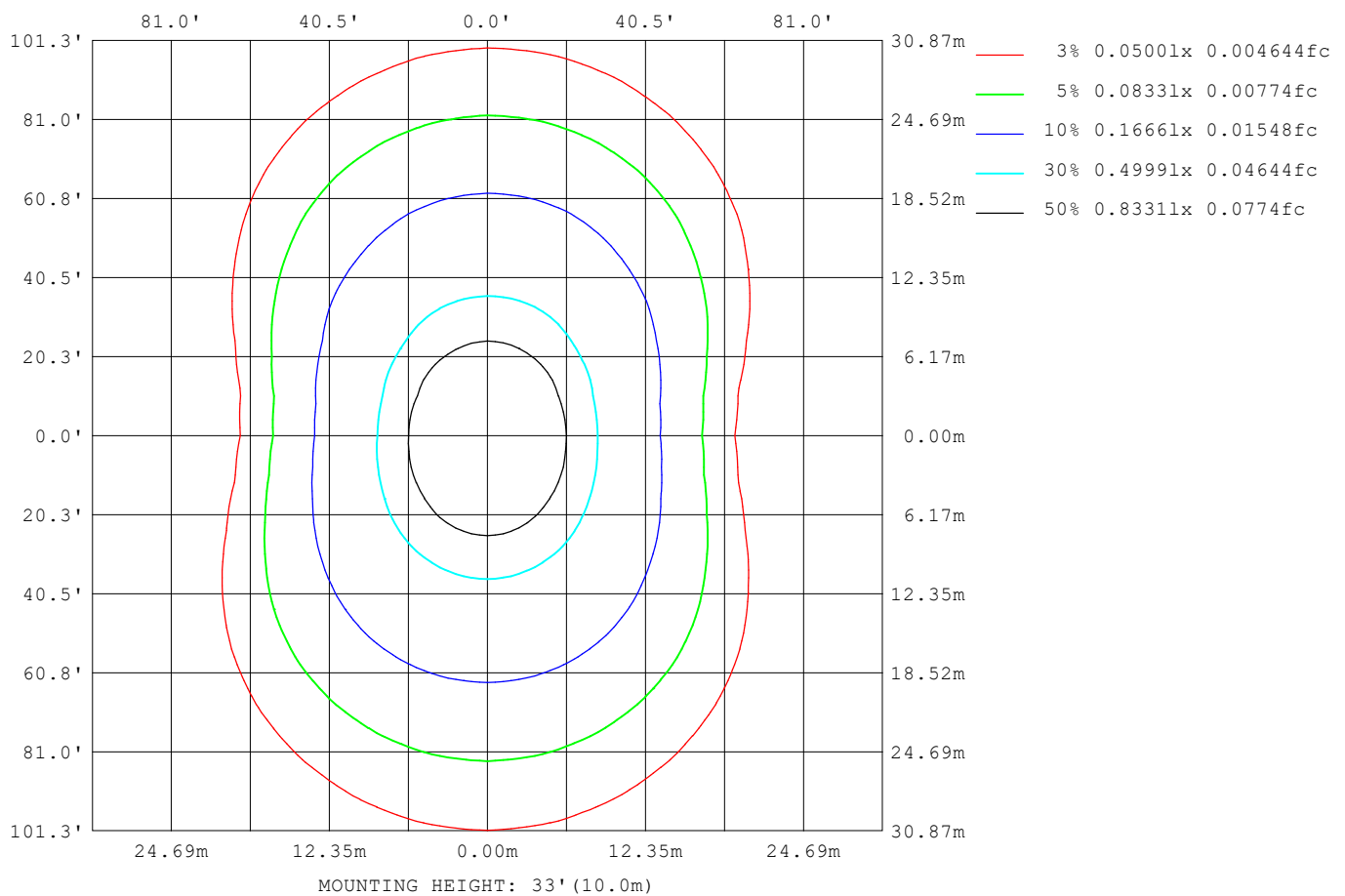
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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

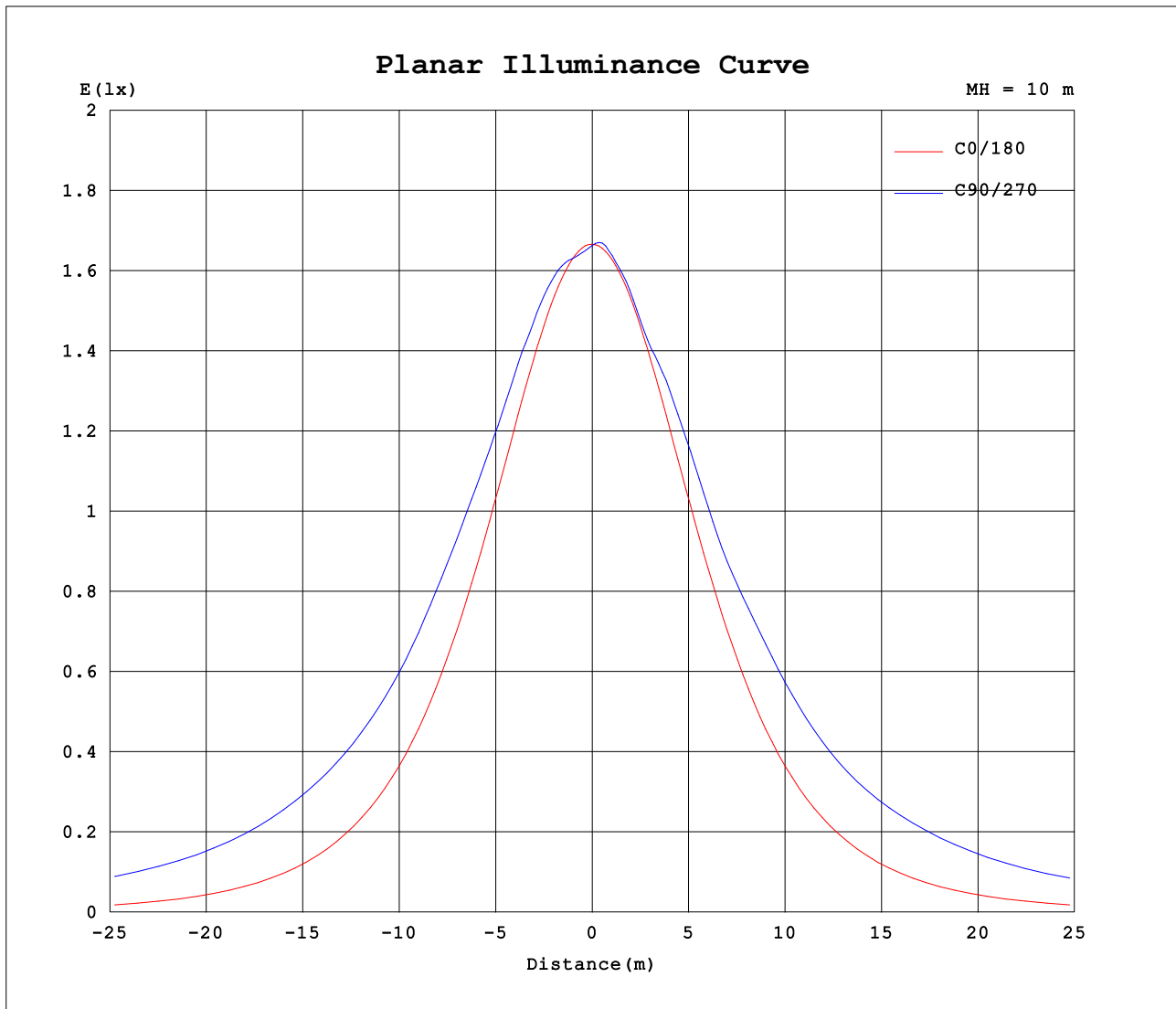
Test:U:120.04V I:0.1370A P:16.07W PF:0.9772 Freq:60.00Hz Lamp Flux:1404.01x1 lm		
NAME: Wall/Vanity	TYPE:--	SERIAL No.:FTS23050402L-06
SPEC.:S06432	DIM.: --	
MFR.: MATTEO	SUR.:800mm	



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

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: 2023-05-05

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: ---