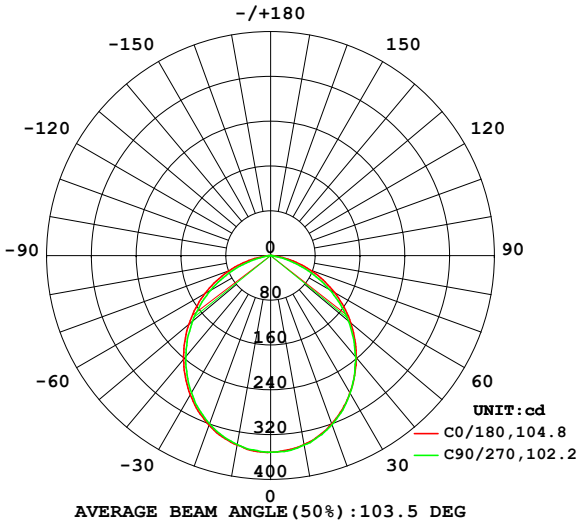
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.36V I:0.0378A P:8.0000W PF:0.9199 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:881.352x1 lm		
NAME: LopezF	TYPE: 8W	WEIGHT:
SPEC.: 5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.039	Shielding Angle:

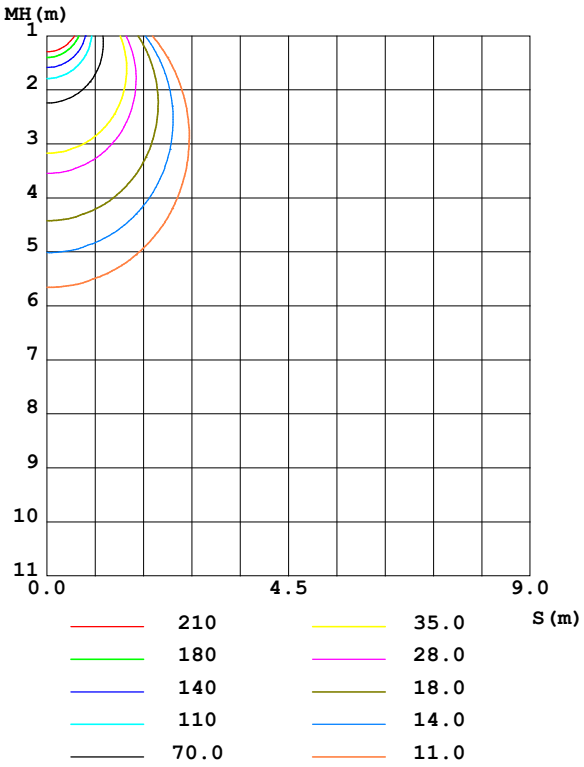
DATA OF LAMP		PHOTOMETRIC DATA Eff: 110.17 lm/W			
MODEL	LopezF	Imax(cd)	351.7	S/MH(C0/180)	1.22
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	881.35	η UP,DN(C0-180)	0.0,50.3
NOMINAL FLUX(lm)	881.352	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):103.5 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-08-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.640m [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	344.0	344.3	342.7	342.6	342.8	343.7	343.7	343.8	0- 10	33.16	33.16	3.76,3.76
20	322.4	321.6	319.8	319.3	319.6	320.8	321.5	322.1	10- 20	94.14	127.3	14.4,14.4
30	287.1	286.9	283.0	283.1	283.3	283.7	283.9	286.2	20- 30	140.1	267.4	30.3,30.3
40	241.8	240.9	236.2	236.6	238.4	236.8	236.6	239.0	30- 40	164.1	431.4	49,49
50	190.9	188.5	182.5	184.4	187.1	183.0	181.5	185.8	40- 50	163.8	595.2	67.5,67.5
60	135.4	131.6	123.3	127.6	132.0	125.6	121.9	128.1	50- 60	140.4	735.6	83.5,83.5
70	78.70	71.39	63.48	68.26	74.67	66.42	60.39	68.16	60- 70	97.42	833.0	94.5,94.5
80	23.97	16.11	11.70	15.30	22.20	14.45	10.39	14.78	70- 80	43.37	876.4	99.4,99.4
90	0.2635	0.2284	0.2046	0.2078	0.2250	0.1987	0.1750	0.1929	80- 90	4.958	881.4	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 514.86 lm

%lum = 58.4%
%lamp = 58.4%

Conical surface Flux(120deg): 735.6 lm

%lum = 83.5%
%lamp = 83.5%

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Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
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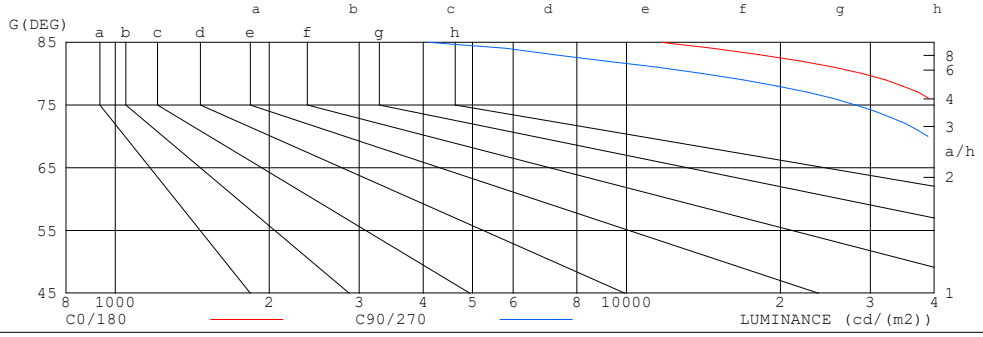
Test Distance:9.640m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.36V I:0.0378A P:8.0000W PF:0.9199 Freq:49.99Hz **UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:881.352x1 lm**		
NAME: LopezF	**TYPE: 8W**	**WEIGHT:**
SPEC.: 5700K	**DIM.:**	**SERIAL No.:**
MFR.: EVERFINE	**SUR.: 0.039**	**Shielding Angle:**

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	11659	4083
80	28980	14124
75	41017	28068
70	48306	38907
65	53151	46285
60	56836	51675
55	59874	55983
50	62355	59510
45	64519	62372

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Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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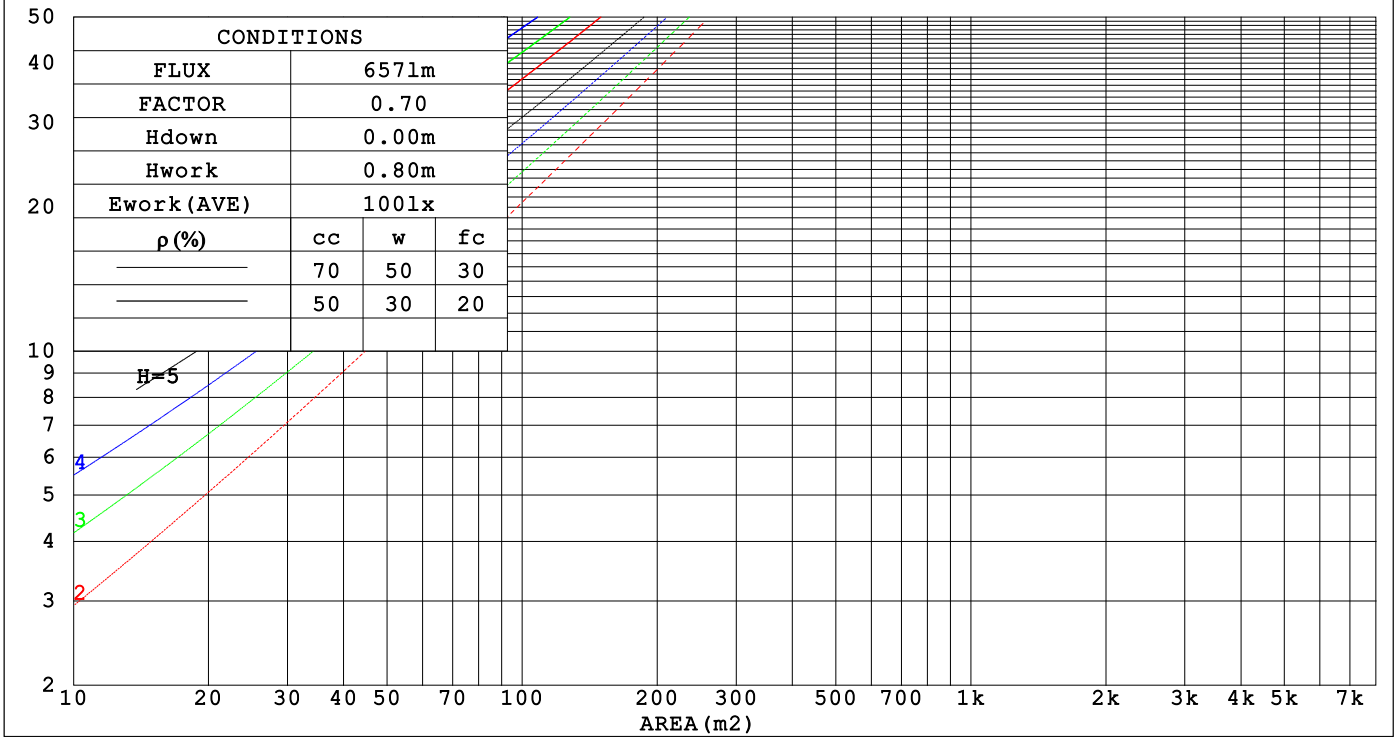
NAME: LopezF	TYPE: 8W	WEIGHT:
SPEC.: 5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.039	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.05	1.01	.98	1.03	.00	.96	.99	.96	.93	.95	.93	.91	.91	.90	.88	.86
2.0	.93	.86	.81	.91	.85	.80	.87	.82	.78	.84	.80	.76	.81	.78	.75	.73
3.0	.82	.74	.68	.80	.73	.67	.77	.71	.66	.75	.69	.65	.72	.68	.64	.62
4.0	.73	.64	.58	.71	.64	.57	.69	.62	.57	.67	.61	.56	.65	.59	.55	.53
5.0	.65	.57	.50	.64	.56	.50	.62	.55	.49	.60	.54	.49	.58	.53	.48	.46
6.0	.59	.50	.44	.58	.50	.44	.56	.49	.43	.54	.48	.43	.53	.47	.43	.41
7.0	.53	.45	.39	.53	.45	.39	.51	.44	.39	.50	.43	.38	.48	.42	.38	.36
8.0	.49	.41	.35	.48	.40	.35	.47	.40	.35	.46	.39	.34	.44	.39	.34	.32
9.0	.45	.37	.31	.44	.37	.31	.43	.36	.31	.42	.36	.31	.41	.35	.31	.29
10.0	.41	.34	.29	.41	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



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Remarks:

WEC AND CCEC

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SPEC.: 5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.039	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.281	.160	.051	.274	.156	.050	.261	.149	.048	.248	.143	.046	.237	.138	.044	
2.0	.271	.149	.046	.265	.146	.045	.253	.141	.044	.243	.136	.043	.233	.132	.042	
3.0	.254	.135	.041	.249	.133	.040	.239	.129	.039	.230	.126	.039	.221	.122	.038	
4.0	.237	.123	.036	.232	.122	.036	.223	.118	.035	.215	.115	.035	.207	.113	.034	
5.0	.221	.113	.033	.217	.111	.032	.209	.109	.032	.201	.106	.032	.194	.104	.031	
6.0	.206	.103	.030	.202	.102	.029	.195	.100	.029	.188	.098	.029	.182	.096	.028	
7.0	.193	.095	.027	.189	.094	.027	.183	.092	.027	.177	.091	.026	.171	.089	.026	
8.0	.180	.088	.025	.177	.087	.025	.172	.086	.025	.166	.084	.024	.161	.083	.024	
9.0	.170	.082	.023	.167	.081	.023	.162	.080	.023	.157	.079	.023	.152	.077	.022	
10.0	.160	.077	.021	.157	.076	.021	.153	.075	.021	.148	.074	.021	.144	.073	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.178	.156	.137	.153	.134	.118	.104	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.169	.132	.101	.145	.114	.087	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.161	.114	.076	.138	.099	.066	.095	.068	.047	.055	.040	.027	.018	.013	.009	
4.0	.154	.101	.060	.132	.087	.052	.091	.061	.037	.053	.036	.022	.017	.012	.007	
5.0	.147	.090	.049	.126	.078	.042	.087	.055	.030	.050	.032	.018	.016	.010	.006	
6.0	.140	.082	.040	.120	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.133	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
8.0	.127	.069	.029	.109	.060	.026	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.104	.056	.022	.072	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.115	.060	.023	.099	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.640m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

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NAME: LopezF	TYPE: 8W	WEIGHT:
SPEC.: 5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.039	Shielding Angle:

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	27.1	28.6	27.4	28.8	29.0	26.8	28.3	27.1	28.5	28.7
3H	28.4	29.8	28.7	30.0	30.2	27.9	29.2	28.2	29.5	29.7
4H	28.9	30.1	29.2	30.4	30.6	28.2	29.4	28.5	29.7	29.9
6H	29.1	30.3	29.4	30.5	30.8	28.2	29.4	28.5	29.7	29.9
8H	29.1	30.2	29.4	30.5	30.8	28.2	29.3	28.5	29.6	29.9
12H	29.1	30.2	29.4	30.5	30.8	28.1	29.2	28.5	29.5	29.8
4H 2H	27.6	28.9	27.9	29.1	29.4	27.4	28.6	27.7	28.9	29.1
3H	29.1	30.2	29.4	30.5	30.8	28.6	29.7	29.0	30.0	30.3
4H	29.6	30.6	30.0	30.9	31.2	29.0	30.0	29.3	30.3	30.6
6H	29.9	30.8	30.3	31.1	31.5	29.1	29.9	29.5	30.3	30.7
8H	29.9	30.7	30.3	31.1	31.5	29.0	29.9	29.4	30.2	30.6
12H	29.9	30.7	30.3	31.0	31.4	29.0	29.8	29.4	30.1	30.5
8H 4H	29.7	30.5	30.1	30.9	31.3	29.1	29.9	29.5	30.3	30.7
6H	30.0	30.7	30.5	31.1	31.5	29.3	29.9	29.7	30.3	30.8
8H	30.1	30.7	30.6	31.1	31.6	29.2	29.8	29.7	30.3	30.7
12H	30.1	30.6	30.6	31.1	31.5	29.2	29.7	29.7	30.2	30.7
12H 4H	29.7	30.4	30.1	30.8	31.2	29.1	29.8	29.5	30.2	30.6
6H	30.0	30.6	30.5	31.0	31.5	29.2	29.8	29.7	30.3	30.7
8H	30.1	30.6	30.6	31.0	31.5	29.2	29.8	29.7	30.2	30.7

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 0.2 / - 0.3	+ 0.3 / - 0.3
1.5H	+ 0.2 / - 0.3	+ 0.2 / - 0.4
2.0H	+ 0.3 / - 0.3	+ 0.4 / - 0.5

CIE Pub.117, 881.4 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -0.4)
Area: 0.00477 m2

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UTILIZATION FACTORS TABLE

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MFR.: EVERFINE	SUR.: 0.039	Shielding Angle:

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) x RCR = 5									
k = 0.60	60	49	42	59	48	42	58	48	42	35
0.80	70	59	52	69	59	52	67	58	51	45
1.00	79	68	61	77	67	61	75	69	60	53
1.25	86	76	69	84	75	69	82	74	68	61
1.50	90	81	75	89	80	74	86	79	73	66
2.00	97	89	83	95	88	82	92	86	81	73
2.50	101	94	88	99	92	87	95	90	85	77
3.00	104	98	93	102	96	91	98	93	89	81
4.00	108	102	98	105	101	97	101	97	94	86
5.00	110	105	102	107	104	100	103	100	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

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ISOCANDELA DIAGRAM

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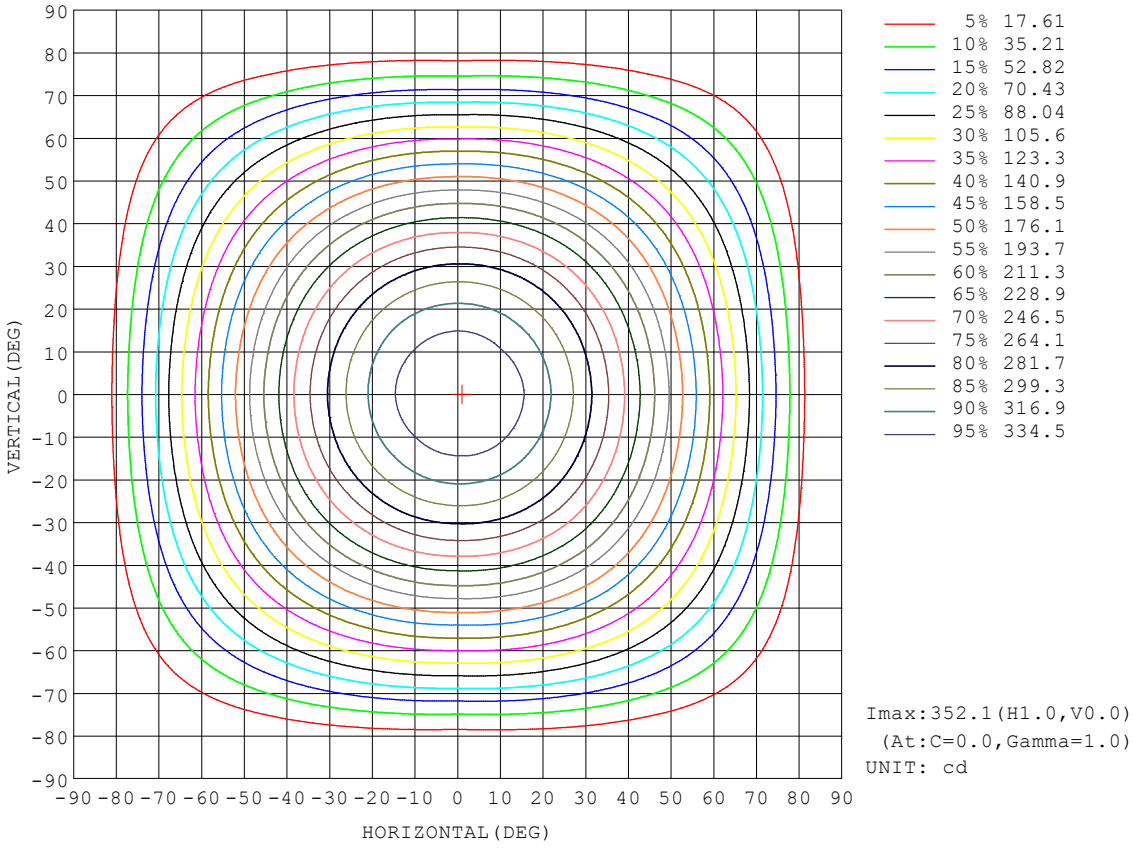

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AAI Figure

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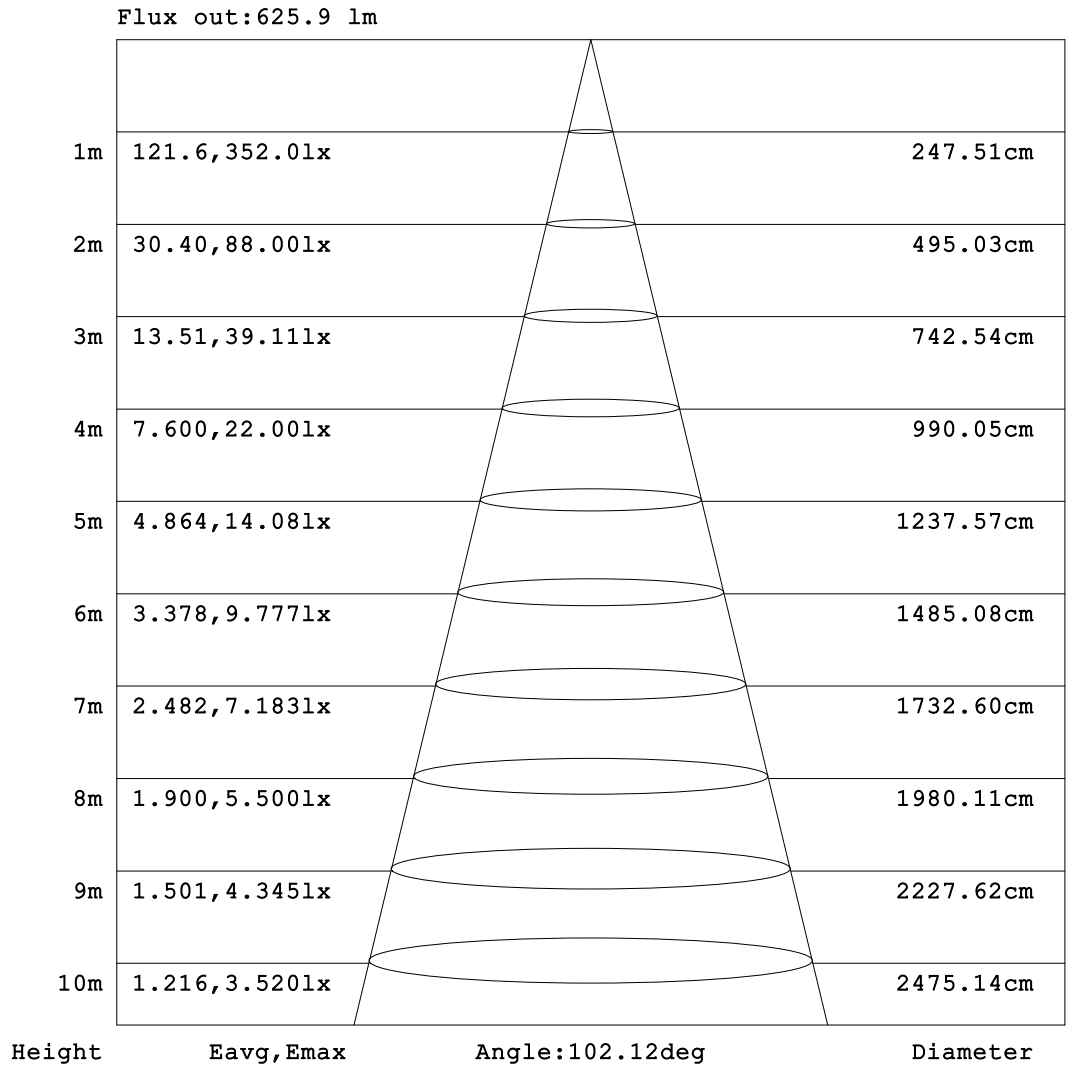

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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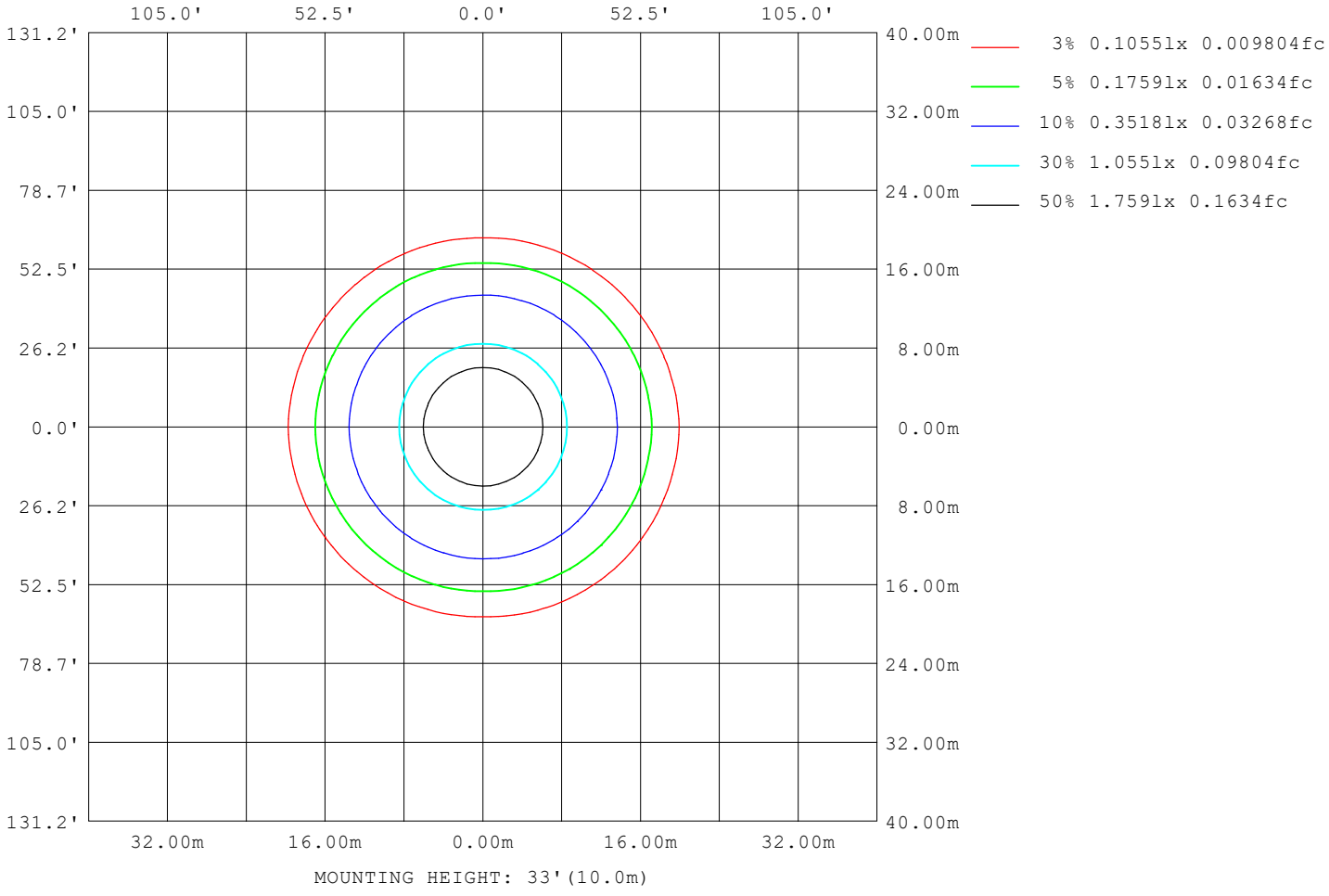
ISOLUX DIAGRAM

Test:U:230.36V I:0.0378A P:8.0000W PF:0.9199 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:881.352x1 lm		
NAME: LopezF	TYPE: 8W	WEIGHT:
SPEC.: 5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.039	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-08-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.640m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:230.36V I:0.0378A P:8.0000W PF:0.9199 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:881.352x1 lm		
NAME: LopezF	TYPE: 8W	WEIGHT:
SPEC.: 5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.039	Shielding Angle:

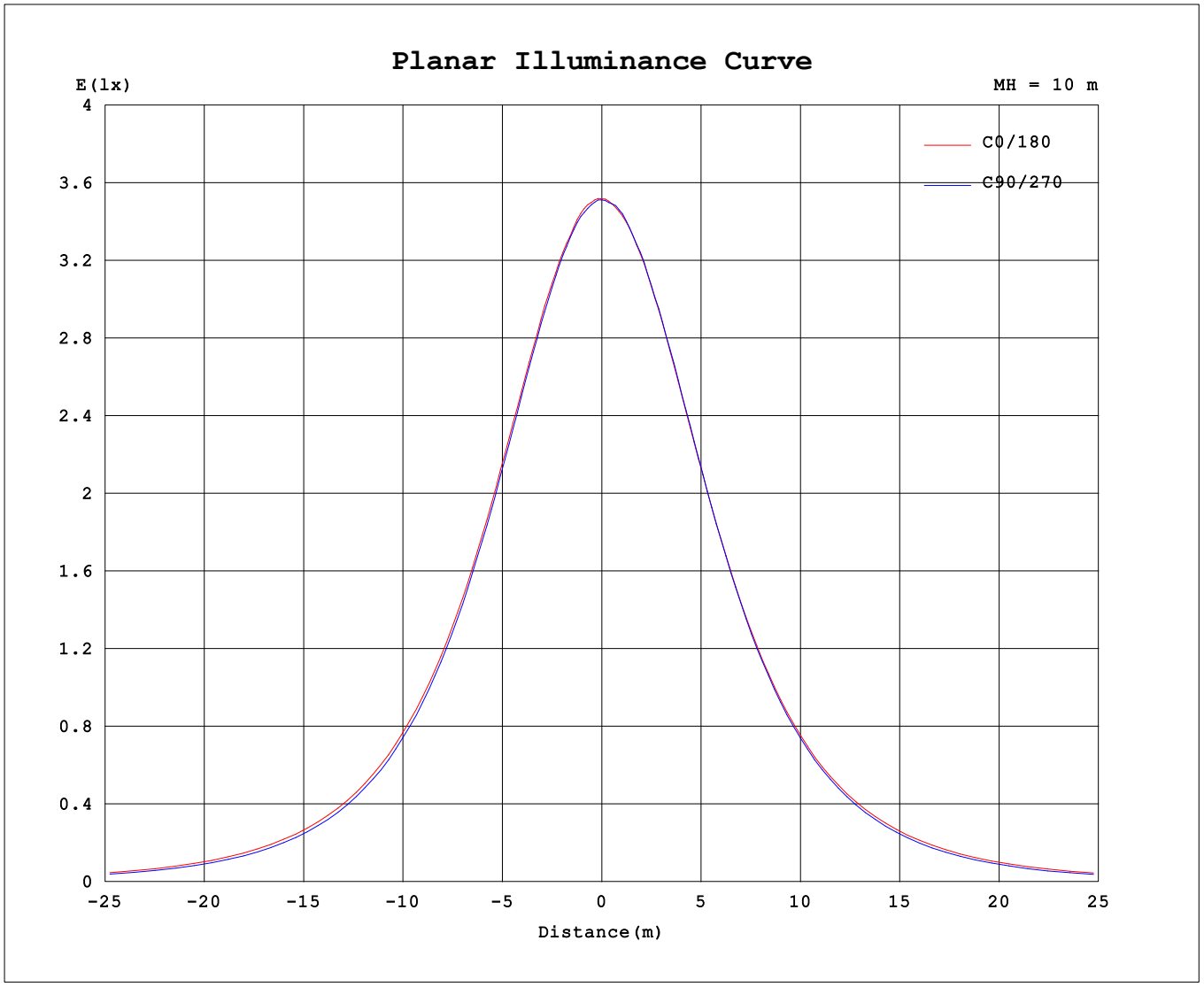
AvgL	cd/m2
L_0~180(65)av	52273
L_0~180(75)av	39674
L_0~180(85)av	11476
L_90~270(65)av	45660
L_90~270(75)av	27195
L_90~270(85)av	3635
L_45(65)av	48767
L_45(75)av	32287
L_45(85)av	5662

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-08-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.640m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-08-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.640m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.36V I:0.0378A P:8.0000W PF:0.9199 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:881.352x1 lm		
NAME: LopezF	TYPE: 8W	WEIGHT:
SPEC.: 5700K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.039	Shielding Angle:

Table--1 UNIT: cd

C(DEG) / γ (DEG)	0	45	90	135	180	225	270	315
0	351	351	351	351	351	351	351	351
5	350	350	349	349	349	349	350	349
10	344	344	343	343	343	344	344	344
15	335	335	333	332	333	333	334	334
20	322	322	320	319	320	321	322	322
25	307	306	303	302	303	304	305	305
30	287	287	283	283	283	284	284	286
35	266	265	260	261	262	261	262	264
40	242	241	236	237	238	237	237	239
45	217	215	210	211	213	210	210	213
50	191	188	182	184	187	183	181	186
55	164	161	153	156	160	155	152	157
60	135	132	123	128	132	126	122	128
65	107	101	93.3	98.0	104	95.7	90.8	98.1
70	78.7	71.4	63.5	68.3	74.7	66.4	60.4	68.2
75	50.6	42.0	34.7	39.8	47.4	38.0	32.5	39.5
80	24.0	16.1	11.7	15.3	22.2	14.4	10.4	14.8
85	4.84	2.54	1.70	2.47	4.70	2.25	1.32	2.16
90	0.26	0.23	0.20	0.21	0.23	0.20	0.17	0.19

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-08-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.640m [K=1.0000]
Remarks: