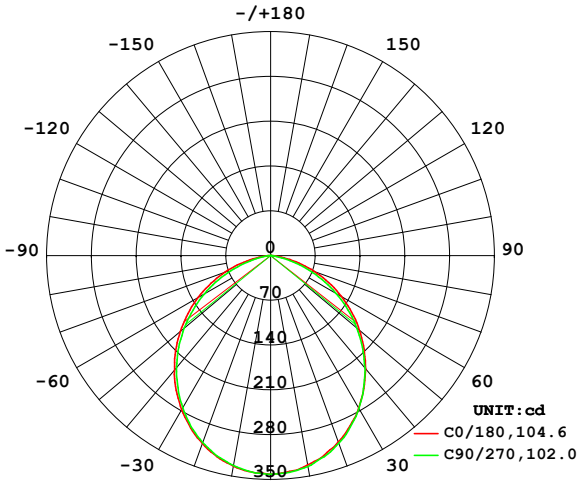
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.37V I:0.0382A P:8.0900W PF:0.9194 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:855.299x1 lm		
NAME: LopezF	TYPE: 8W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.039	Shielding Angle:

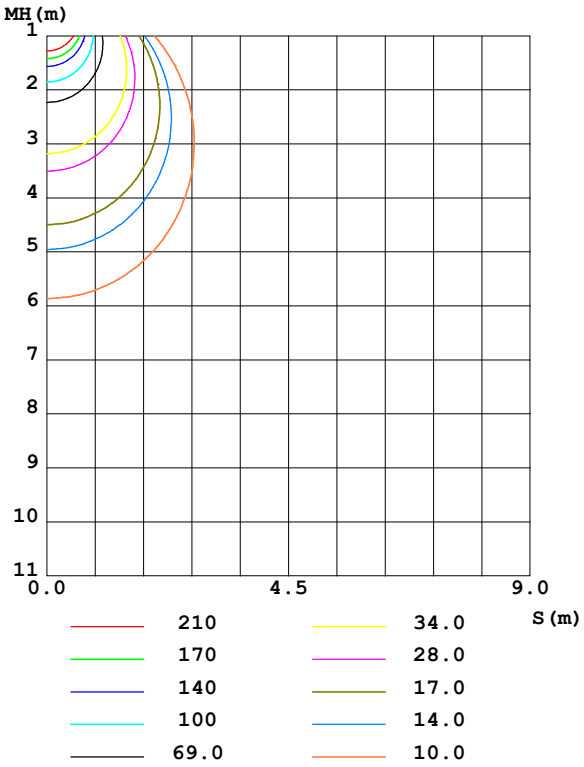
DATA OF LAMP		PHOTOMETRIC DATA Eff: 105.72 lm/W			
MODEL	LopezF	Imax(cd)	342.4	S/MH(C0/180)	1.22
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	1.20
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	855.30	η UP,DN(C0-180)	0.0,50.2
NOMINAL FLUX(lm)	855.299	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.8
LAMPS INSIDE	1	η 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%):103.3 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	334.1	334.4	333.4	332.7	332.4	334.1	334.6	334.7	0- 10	32.25	32.25	3.77,3.77
20	312.4	312.7	310.8	311.0	309.8	311.1	312.0	312.9	10- 20	91.49	123.7	14.5,14.5
30	278.1	278.8	275.0	275.4	275.3	275.8	276.0	278.2	20- 30	136.1	259.8	30.4,30.4
40	234.1	233.5	228.9	230.2	231.4	230.0	229.5	232.8	30- 40	159.3	419.1	49,49
50	184.4	182.6	176.4	178.7	181.4	177.6	176.1	180.1	40- 50	158.8	577.9	67.6,67.6
60	130.6	126.8	119.5	123.5	127.7	121.7	118.1	124.1	50- 60	136.1	714.0	83.5,83.5
70	75.69	68.88	61.05	66.05	72.60	64.48	59.13	66.54	60- 70	94.35	808.4	94.5,94.5
80	23.20	15.58	11.42	14.98	21.78	14.10	10.08	14.50	70- 80	42.11	850.5	99.4,99.4
90	0.2562	0.2222	0.1990	0.2058	0.2179	0.1926	0.1723	0.1879	80- 90	4.831	855.3	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): 500.05 lm

%lum = 58.5%
%lamp = 58.5%

Conical surface Flux(120deg): 714.01 lm

%lum = 83.5%
%lamp = 83.5%

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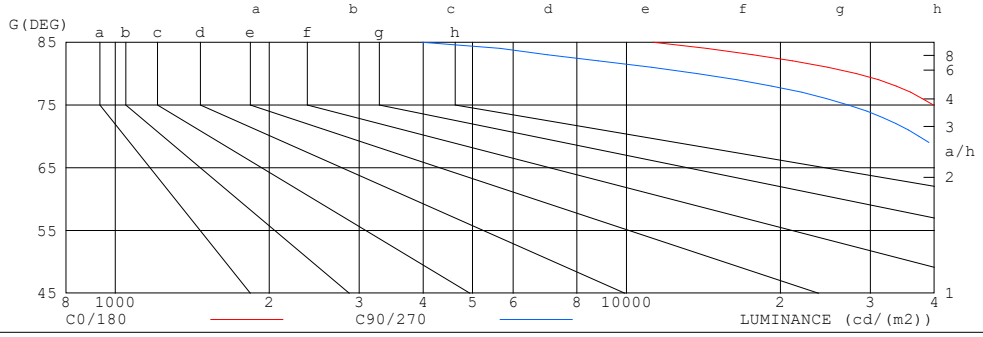
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.640m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.37V I:0.0382A P:8.0900W PF:0.9194 Freq:49.99Hz **UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:855.299x1 lm**		
NAME: LopezF	**TYPE: 8W**	**WEIGHT:**
SPEC.: 3000K	**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	11291	3984
80	28200	13762
75	39863	27146
70	46713	37356
65	51377	44622
60	55146	50004
55	58131	54088
50	60565	57429
45	62704	60269

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γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
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Remarks:

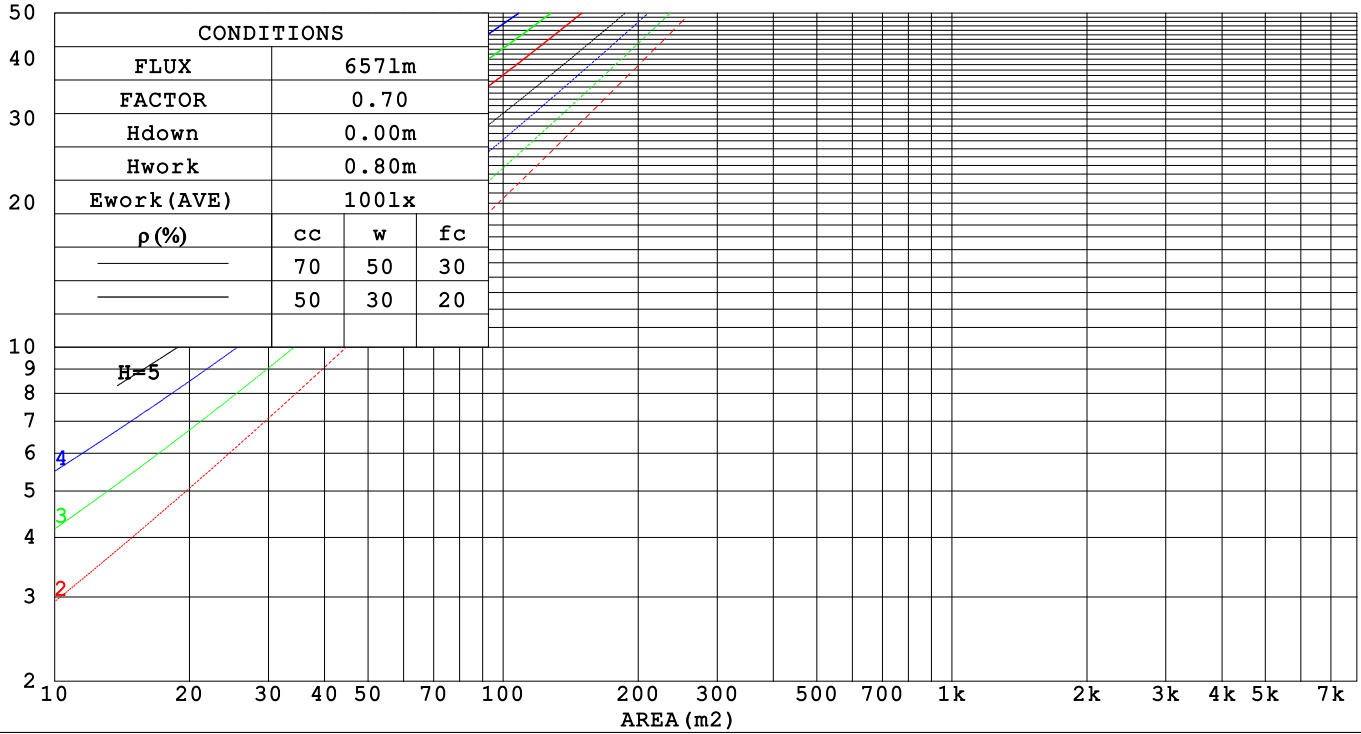
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.37V I:0.0382A P:8.0900W PF:0.9194 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:855.299x1 lm		
NAME: LopezF	TYPE: 8W	WEIGHT:
SPEC.: 3000K	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	.58	.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	.42	.34	.29	.41	.34	.29	.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.: 3000K	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	.260	.149	.048	.248	.143	.046	.237	.138	.044	
2.0	.271	.148	.046	.265	.146	.045	.253	.141	.044	.243	.136	.043	.233	.132	.042	
3.0	.254	.135	.041	.249	.133	.040	.239	.129	.039	.229	.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	.192	.095	.027	.189	.094	.027	.183	.092	.027	.177	.091	.026	.171	.089	.026	
8.0	.180	.088	.025	.177	.087	.025	.172	.086	.024	.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	.077	.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	.010	.014	.008	.003	
10.0	.115	.060	.023	.099	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

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:

UGR(Unified Glare Rating) Table

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NAME: LopezF	TYPE: 8W	WEIGHT:
SPEC.: 3000K	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	27.0	28.5	27.3	28.7	28.9	26.7	28.1	26.9	28.3	28.5
3H	28.3	29.6	28.6	29.9	30.1	27.8	29.1	28.1	29.3	29.6
4H	28.7	30.0	29.1	30.3	30.5	28.0	29.3	28.3	29.6	29.8
6H	29.0	30.2	29.3	30.4	30.7	28.1	29.3	28.4	29.5	29.8
8H	29.0	30.1	29.3	30.4	30.7	28.0	29.2	28.4	29.5	29.8
12H	28.9	30.0	29.3	30.3	30.6	28.0	29.1	28.3	29.4	29.7
4H 2H	27.5	28.8	27.8	29.0	29.3	27.2	28.5	27.6	28.8	29.0
3H	28.9	30.1	29.3	30.3	30.6	28.5	29.6	28.8	29.9	30.2
4H	29.5	30.5	29.8	30.8	31.1	28.8	29.8	29.2	30.2	30.5
6H	29.8	30.7	30.2	31.0	31.4	28.9	29.8	29.3	30.2	30.5
8H	29.8	30.6	30.2	31.0	31.4	28.9	29.7	29.3	30.1	30.5
12H	29.8	30.5	30.2	30.9	31.3	28.9	29.6	29.3	30.0	30.4
8H 4H	29.6	30.4	30.0	30.8	31.1	29.0	29.8	29.4	30.2	30.5
6H	29.9	30.6	30.4	31.0	31.4	29.1	29.8	29.6	30.2	30.6
8H	30.0	30.6	30.4	31.0	31.5	29.1	29.7	29.6	30.1	30.6
12H	30.0	30.5	30.5	30.9	31.4	29.1	29.6	29.6	30.0	30.5
12H 4H	29.5	30.3	30.0	30.7	31.1	28.9	29.7	29.4	30.1	30.5
6H	29.9	30.5	30.4	30.9	31.4	29.1	29.7	29.6	30.1	30.6
8H	30.0	30.5	30.4	30.9	31.4	29.1	29.6	29.6	30.1	30.5
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 / - 0.5				
2.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.5				

CIE Pub.117, 855.3 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -0.5)
Area: 0.00477 m2

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Remarks:

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	54
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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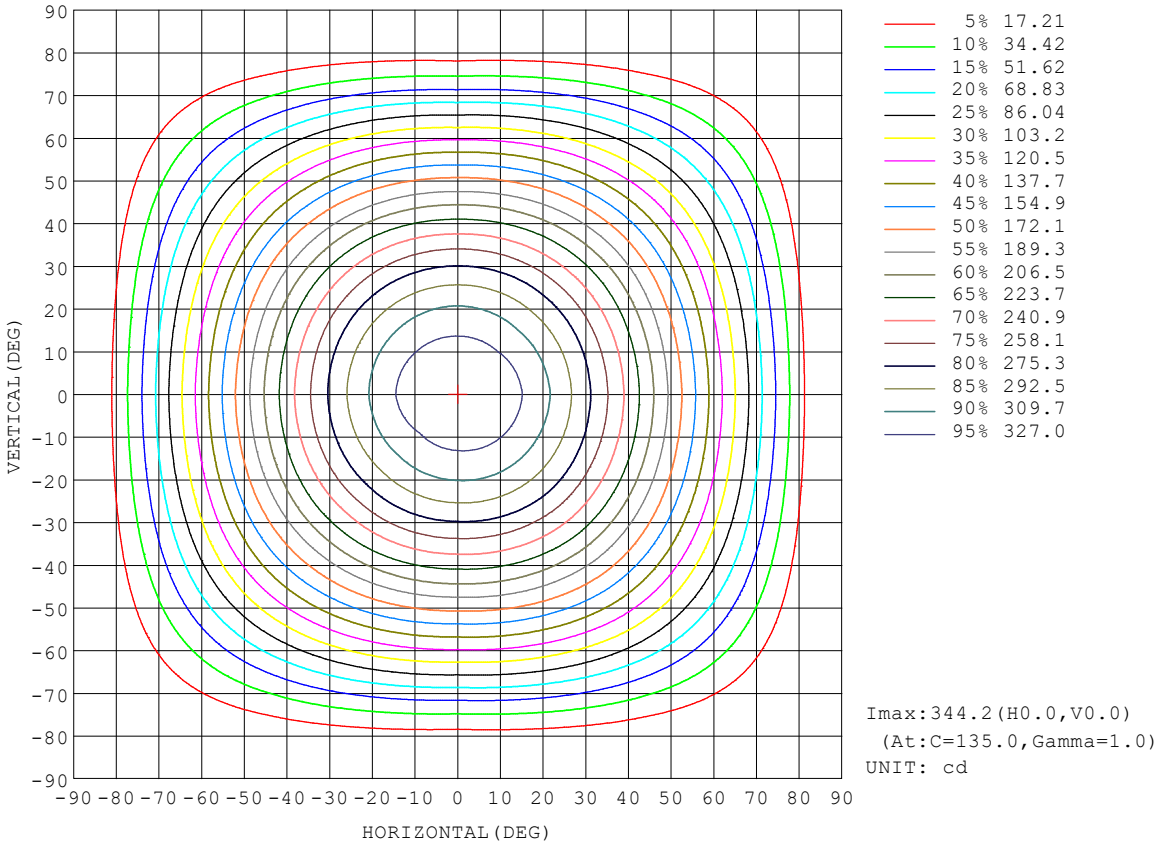

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AAI Figure

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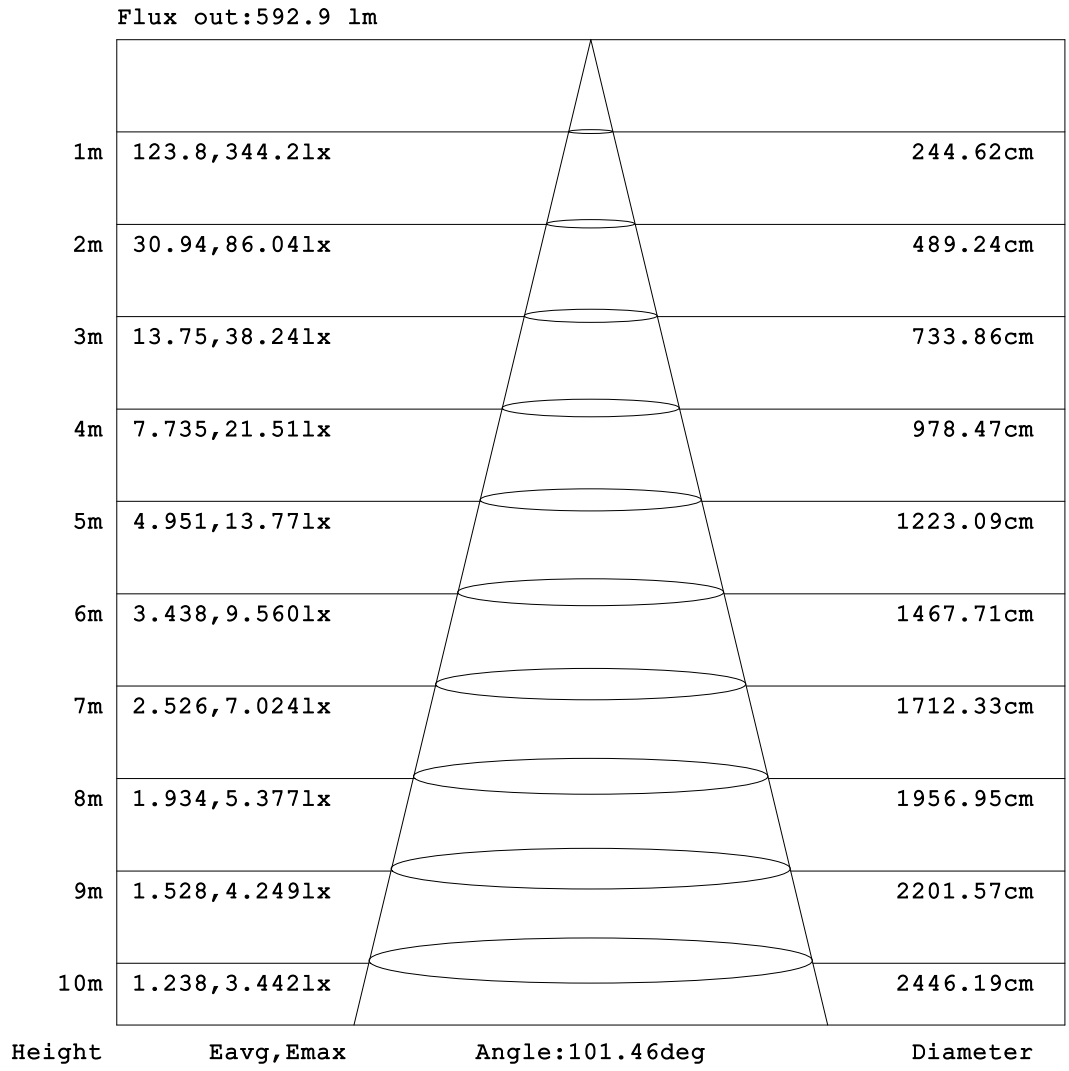

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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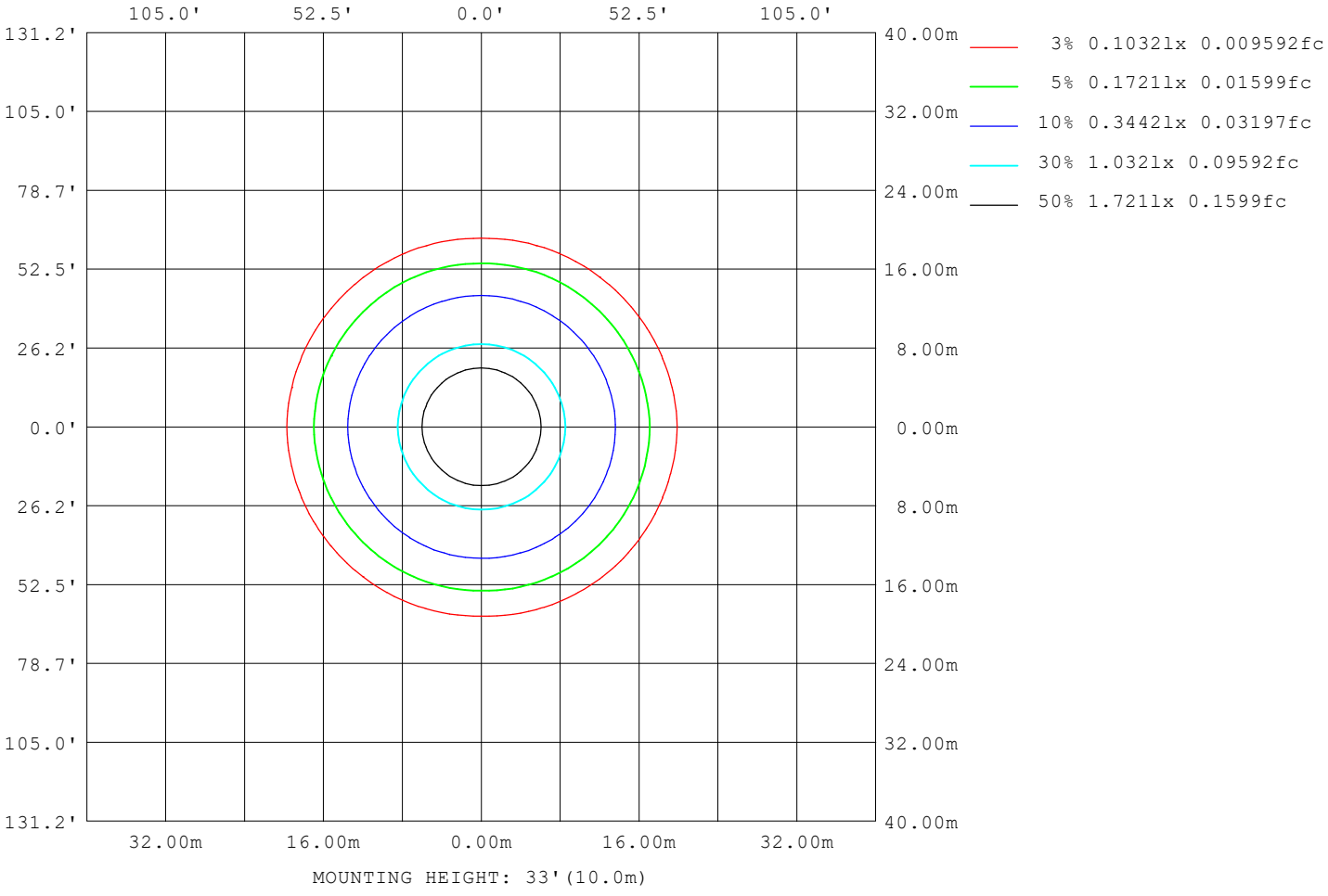
ISOLUX DIAGRAM

Test:U:230.37V I:0.0382A P:8.0900W PF:0.9194 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:855.299x1 lm		
NAME: LopezF	TYPE: 8W	WEIGHT:
SPEC.: 3000K	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

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NAME: LopezF	TYPE: 8W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.039	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	50377
L_0~180(75)av	38435
L_0~180(85)av	11170
L_90~270(65)av	44289
L_90~270(75)av	26457
L_90~270(85)av	3549
L_45(65)av	47263
L_45(75)av	31346
L_45(85)av	5496

Standard: GB/T 29293-2012

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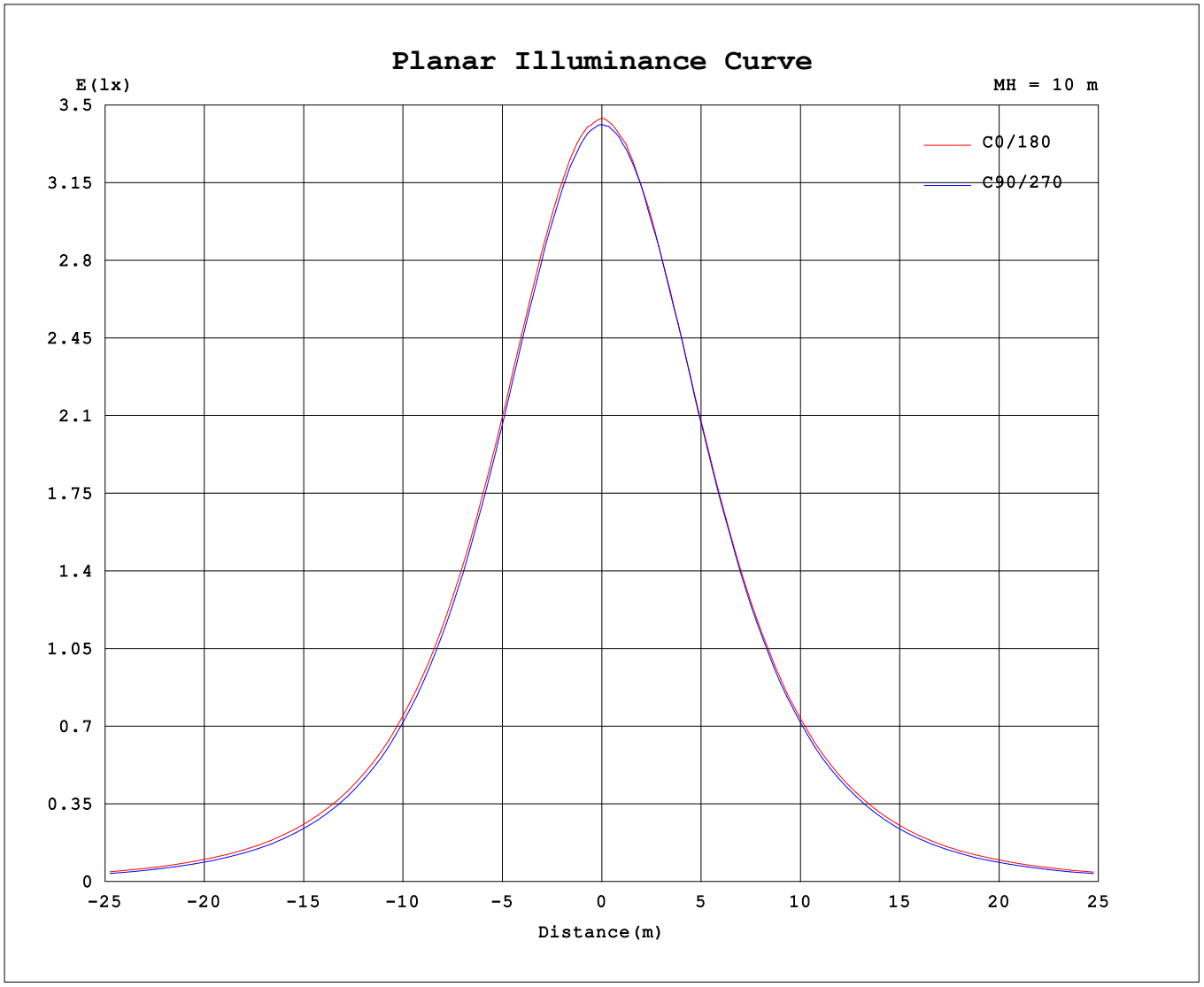
Test Distance:9.640m [K=1.0000]
Remarks:

Planar Illuminance Curve



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Humidity:65.0%
Test Distance:9.640m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.37V I:0.0382A P:8.0900W PF:0.9194 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:855.299x1 lm		
NAME: LopezF	TYPE: 8W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.039	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	45	90	135	180	225	270	315
0	342	342	342	342	342	342	342	342
5	340	341	339	339	339	340	340	340
10	334	334	333	333	332	334	335	335
15	325	325	324	324	323	325	325	326
20	312	313	311	311	310	311	312	313
25	297	297	295	295	294	295	295	297
30	278	279	275	275	275	276	276	278
35	257	257	253	254	254	254	254	256
40	234	233	229	230	231	230	230	233
45	210	208	204	205	207	204	203	207
50	184	183	176	179	181	178	176	180
55	158	155	148	152	155	150	148	153
60	131	127	119	124	128	122	118	124
65	103	97.9	90.1	94.8	100	93.1	88.5	95.3
70	75.7	68.9	61.1	66.1	72.6	64.5	59.1	66.5
75	48.9	40.5	33.6	38.4	46.0	37.2	31.8	38.7
80	23.2	15.6	11.4	15.0	21.8	14.1	10.1	14.5
85	4.66	2.44	1.66	2.41	4.63	2.19	1.29	2.10
90	0.26	0.22	0.20	0.21	0.22	0.19	0.17	0.19

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C Interval: 45.0DEG
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