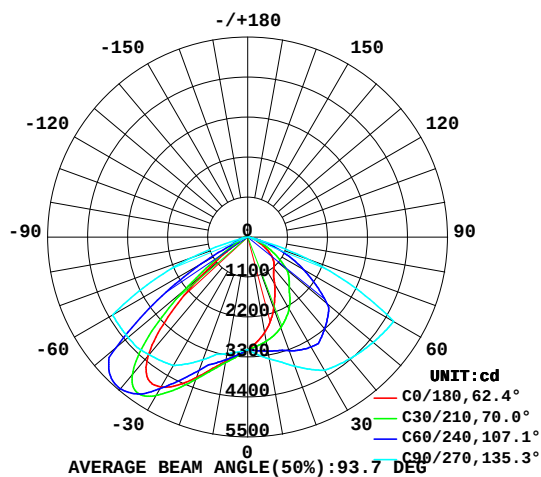


LUMINAIRE PHOTOMETRIC TEST REPORT

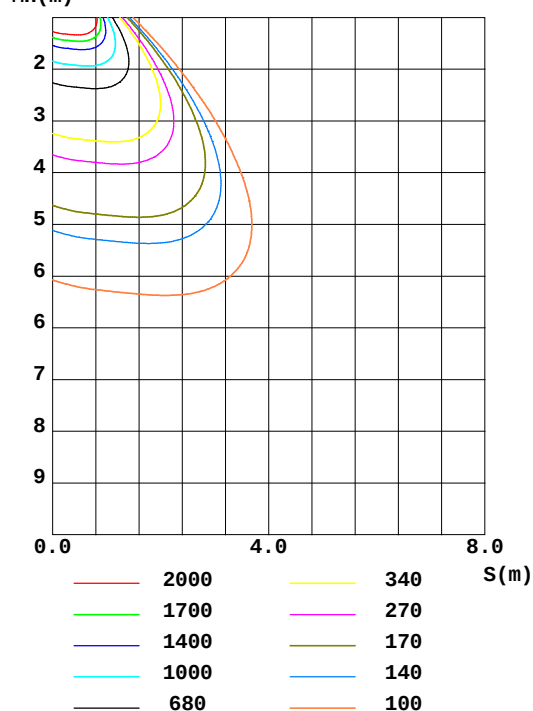
Test:U:230.4V I:0.4350A P:99.00W PF:0.9860 Lamp Flux:10996.9x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 111.08 lm/W			
MODEL	100W平板路灯	I _{max} (cd)	5722	S/MH(C0/180)	1.53
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.98
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	10997	η UP, DN(C0-180)	0.0, 49.0
NOMINAL FLUX(lm)	10996.9	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 51.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.5	η down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2020-03-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-2000H_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.250m [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
5	3278	3281	3178	3019	2898	3073	3249	3328	0- 5	75.16	75.16	0.68, 0.68
10	3472	3480	3259	2928	2678	3050	3401	3566	5- 10	229.4	304.5	2.77, 2.77
15	3744	3709	3341	2818	2410	3026	3554	3834	10- 15	389.0	693.6	6.31, 6.31
20	4104	4008	3589	2685	2097	2993	3781	4166	15- 20	558.1	1252	11.4, 11.4
25	4482	4517	3836	2596	1778	2951	4008	4633	20- 25	743.3	1995	18.1, 18.1
30	4763	5065	4084	2484	1489	2860	4236	5094	25- 30	938.9	2934	26.7, 26.7
35	4774	5515	4155	2333	1246	2729	4304	5445	30- 35	1125	4059	36.9, 36.9
40	4262	5625	4226	2131	1125	2526	4371	5492	35- 40	1264	5323	48.4, 48.4
45	3095	4548	4298	1848	1027	2156	4439	4594	40- 45	1314	6637	60.4, 60.4
50	1691	2997	4295	1626	896.2	1859	4506	3248	45- 50	1234	7871	71.6, 71.6
55	706.6	1365	4293	1394	714.9	1576	4573	1770	50- 55	1027	8898	80.9, 80.9
60	375.9	716.6	4290	992.6	513.9	1092	4641	932.3	55- 60	805.5	9703	88.2, 88.2
65	321.5	383.3	2944	648.3	334.7	666.7	3179	459.6	60- 65	591.1	10294	93.6, 93.6
70	260.0	255.1	1598	403.5	220.0	371.4	1718	272.8	65- 70	387.2	10682	97.1, 97.1
75	198.4	200.3	251.8	252.5	119.1	214.8	257.2	214.9	70- 75	209.1	10891	99.9, 99.9
80	125.6	121.4	0	112.4	77.80	84.69	0	131.9	75- 80	80.74	10971	99.8, 99.8
85	64.83	0	0	0	24.31	0	0	0	80- 85	22.27	10994	100, 100
90	37.25	0	0	0	21.66	0	0	0	85- 90	3.278	10997	100, 100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

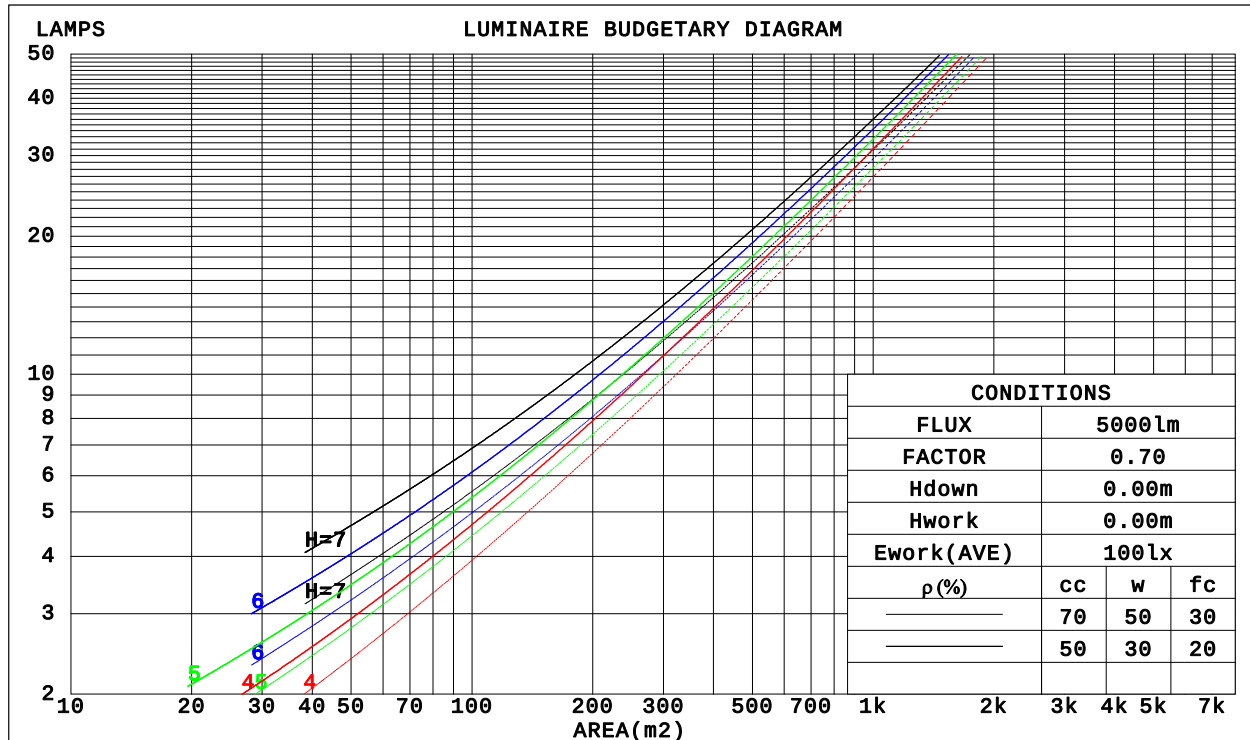
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2020-03-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000H_V1 SYSTEM V2.0.267
 Humidity: 65.0%
 Test Distance: 8.250m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.4V I:0.4350A P:99.00W PF:0.9860 Lamp Flux:10996.9x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

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	1.19	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	1.06	1.02	.99	1.04	1.01	.97	.90	.97	.94	.96	.94	.92	.92	.91	.89	.87
2.0	.94	.87	.82	.92	.86	.81	.88	.84	.79	.85	.81	.78	.82	.79	.76	.74
3.0	.83	.75	.69	.81	.74	.69	.78	.72	.67	.76	.70	.66	.73	.69	.65	.63
4.0	.73	.65	.59	.72	.64	.58	.70	.63	.58	.67	.62	.57	.65	.60	.56	.54
5.0	.66	.57	.51	.64	.56	.50	.62	.55	.50	.60	.54	.49	.59	.53	.49	.47
6.0	.59	.50	.44	.58	.50	.44	.56	.49	.43	.54	.48	.43	.53	.47	.43	.41
7.0	.53	.45	.39	.52	.44	.38	.51	.44	.38	.49	.43	.38	.48	.42	.38	.36
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.38	.34	.44	.38	.33	.32
9.0	.44	.36	.30	.44	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.40	.33	.27	.40	.32	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2020-03-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.267
 Humidity: 65.0%
 Test Distance: 8.250m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:230.4V I:0.4350A P:99.00W PF:0.9860 Lamp Flux:10996.9x1 lm														
NAME:					TYPE:					WEIGHT:				
DIM.:					SPEC.:					SERIAL No.:				
MFR.: EVERFINE					SUR.:					PROTECTION 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 Coefficients(WEC)										
0.0																	
1.0	.266	.151	.048	.259	.148	.047	.246	.141	.045	.234	.135	.043	.223	.129	.042		
2.0	.261	.143	.044	.255	.141	.043	.244	.136	.042	.233	.131	.041	.223	.126	.040		
3.0	.248	.132	.040	.243	.130	.039	.233	.126	.038	.224	.123	.038	.215	.119	.037		
4.0	.234	.122	.036	.229	.120	.035	.220	.117	.035	.212	.114	.034	.204	.111	.034		
5.0	.220	.112	.032	.215	.111	.032	.207	.108	.032	.200	.105	.031	.193	.103	.031		
6.0	.206	.103	.030	.202	.102	.029	.195	.100	.029	.188	.098	.029	.182	.096	.028		
7.0	.193	.096	.027	.190	.095	.027	.184	.093	.027	.178	.091	.026	.172	.089	.026		
8.0	.182	.089	.025	.179	.088	.025	.173	.086	.025	.168	.085	.025	.163	.083	.024		
9.0	.171	.083	.023	.169	.082	.023	.163	.081	.023	.159	.080	.023	.154	.078	.023		
10.0	.162	.078	.022	.159	.077	.021	.155	.076	.021	.150	.075	.021	.146	.074	.021		

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			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.138	.152	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.168	.132	.102	.144	.114	.088	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.160	.114	.077	.137	.098	.067	.094	.068	.047	.055	.040	.028	.018	.013	.009	
4.0	.153	.101	.061	.131	.087	.053	.090	.061	.037	.052	.036	.022	.017	.012	.007	
5.0	.146	.090	.049	.126	.078	.042	.086	.054	.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	.115	.065	.030	.079	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.127	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.026	.105	.056	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-03-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

Uncorrected UGR Table

Test:U:230.4V I:0.4350A P:99.00W PF:0.9860 Lamp Flux:10996.9x1 lm												
NAME:					TYPE:			WEIGHT:				
DIM.:					SPEC.:			SERIAL No.:				
MFR.: EVERFINE					SUR.:			PROTECTION 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	2H	27.7	29.1	27.9	29.3	29.5	33.4	34.9	33.7	35.1	35.3	
	3H	27.7	29.0	27.9	29.2	29.5	34.4	35.7	34.7	36.0	36.2	
	4H	27.7	29.0	28.0	29.2	29.4	34.4	35.7	34.7	35.9	36.2	
	6H	27.7	28.9	28.0	29.2	29.4	34.3	35.5	34.6	35.8	36.0	
	8H	27.7	28.8	28.0	29.1	29.4	34.3	35.4	34.6	35.7	36.0	
	12H	27.7	28.8	28.0	29.1	29.4	34.2	35.3	34.6	35.6	35.9	
	4H	2H	27.8	29.1	28.2	29.4	29.6	33.1	34.4	33.4	34.6	34.9
		3H	27.9	29.0	28.3	29.3	29.6	34.1	35.2	34.5	35.5	35.8
		4H	28.0	29.0	28.4	29.3	29.6	34.2	35.2	34.6	35.5	35.8
		6H	28.1	29.0	28.5	29.3	29.7	34.1	35.0	34.5	35.3	35.7
		8H	28.1	28.9	28.5	29.3	29.7	34.1	34.9	34.5	35.2	35.6
		12H	28.2	28.9	28.6	29.3	29.7	34.0	34.8	34.4	35.1	35.5
8H	4H	28.0	28.8	28.4	29.2	29.6	34.1	34.9	34.5	35.2	35.6	
	6H	28.2	28.9	28.6	29.3	29.7	34.0	34.7	34.4	35.1	35.5	
	8H	28.3	28.9	28.7	29.3	29.7	34.0	34.5	34.4	35.0	35.4	
	12H	28.4	28.9	28.8	29.3	29.8	33.9	34.4	34.4	34.9	35.3	
12H	4H	28.0	28.7	28.4	29.1	29.5	34.0	34.8	34.5	35.1	35.5	
	6H	28.2	28.7	28.6	29.2	29.6	34.0	34.5	34.4	35.0	35.4	
	8H	28.3	28.8	28.7	29.2	29.7	33.9	34.4	34.4	34.9	35.3	
Variations with the observer position at spacings:												
S = 1.0H	+ 2.1 / - 3.8					+ 0.3 / - 0.5						
1.5H	+ 1.7 / - 3.1					+ 0.8 / - 1.6						
2.0H	+ 3.7 / - 3.5					+ 2.4 / - 8.8						

CIE Pub.117 Corrected 10997 lm Total Lamp Luminous Flux.(8log(F/F0) = 8.3)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-03-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.4V I:0.4350A P:99.00W PF:0.9860 Lamp Flux:10996.9x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

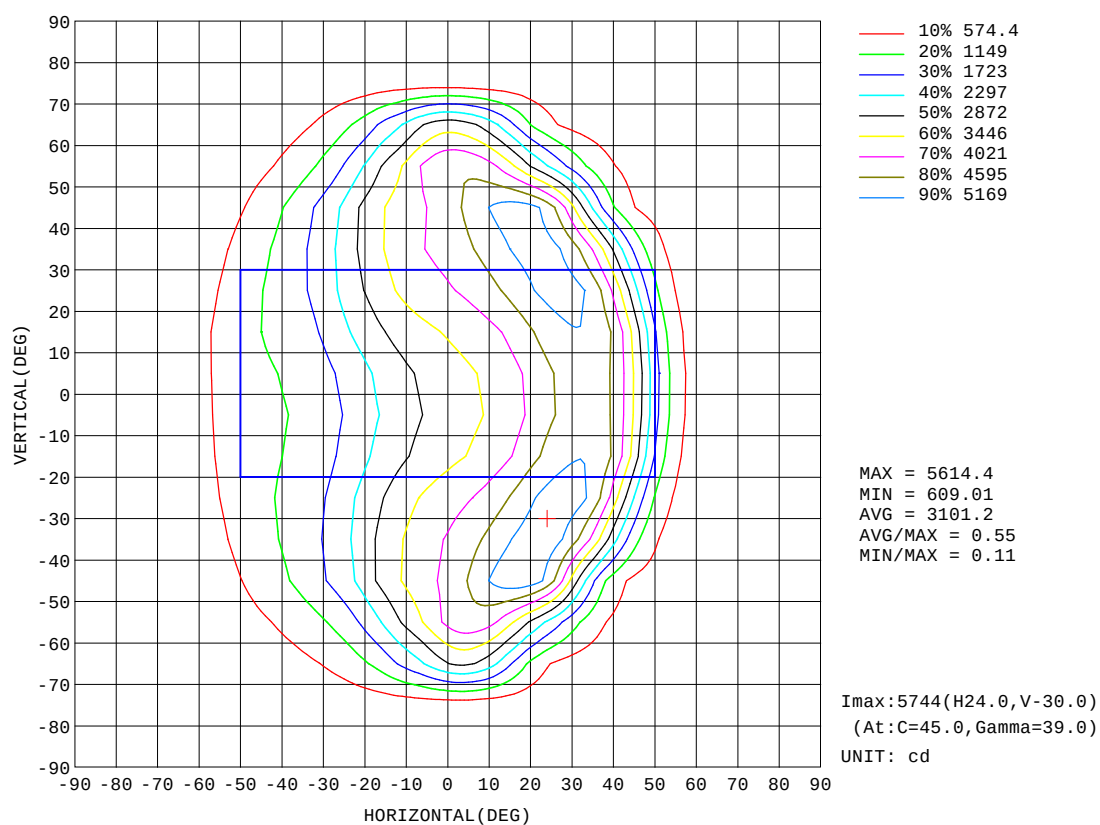
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	59	48	41	58	47	41	57	47	40	34
0.80	70	59	52	69	58	51	67	57	51	44
1.00	79	69	62	78	68	62	76	69	61	54
1.25	86	77	70	85	76	70	82	75	69	62
1.50	91	82	76	90	82	76	87	80	75	68
2.00	98	91	85	96	89	84	93	87	83	75
2.50	102	95	89	100	93	88	96	91	87	79
3.00	105	99	94	103	97	93	99	94	91	83
4.00	108	103	99	106	101	98	102	98	95	87
5.00	110	106	102	108	104	101	103	100	98	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-03-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000H_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.4V I:0.4350A P:99.00W PF:0.9860 Lamp Flux:10996.9x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

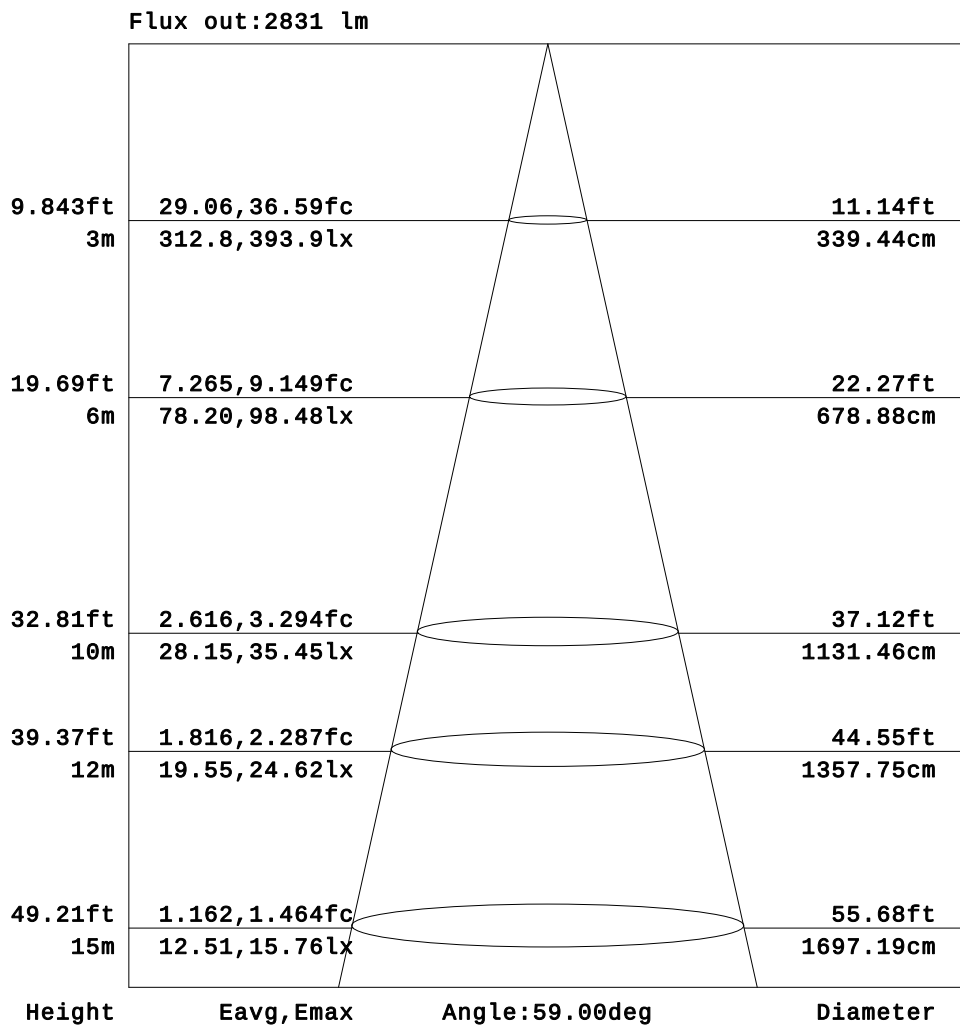


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-03-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000H_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.4V I:0.4350A P:99.00W PF:0.9860 Lamp Flux:10996.9x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



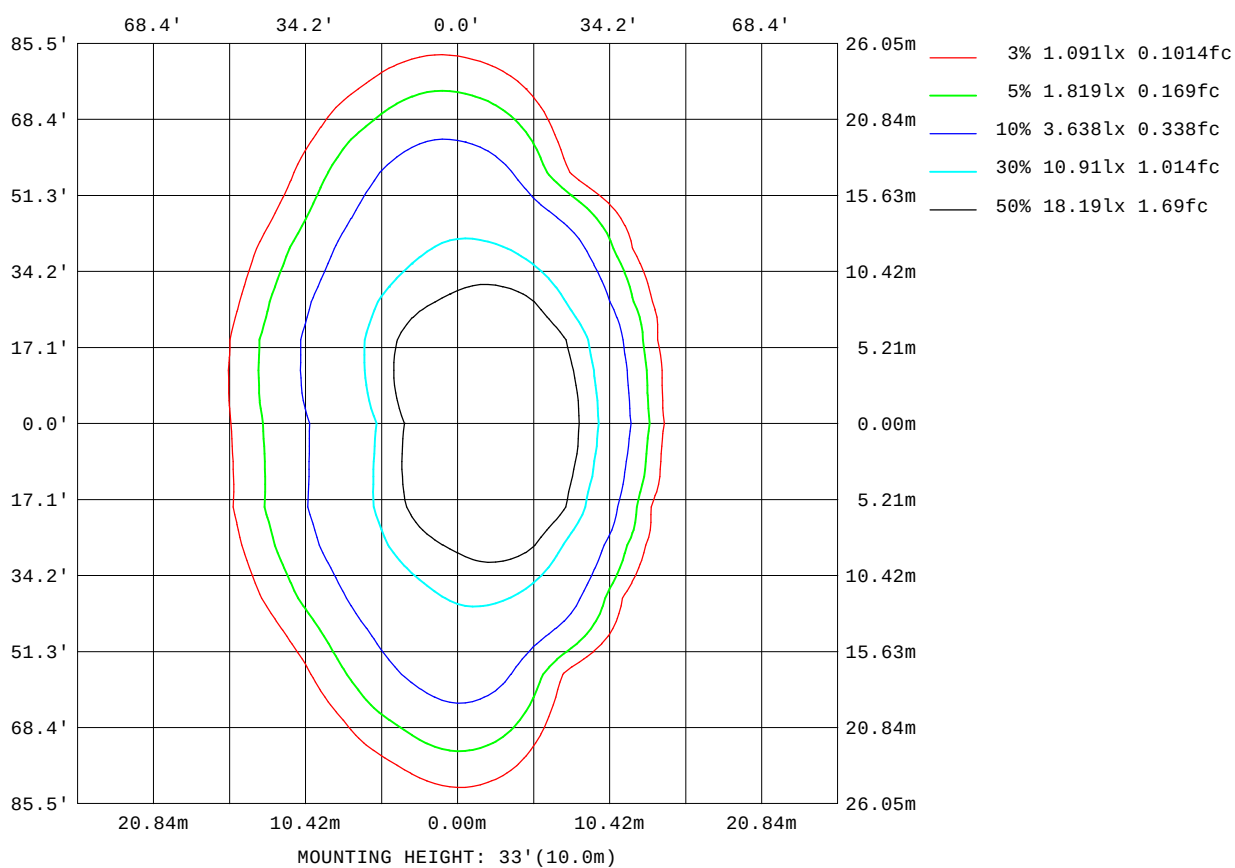
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-03-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000H_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.250m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

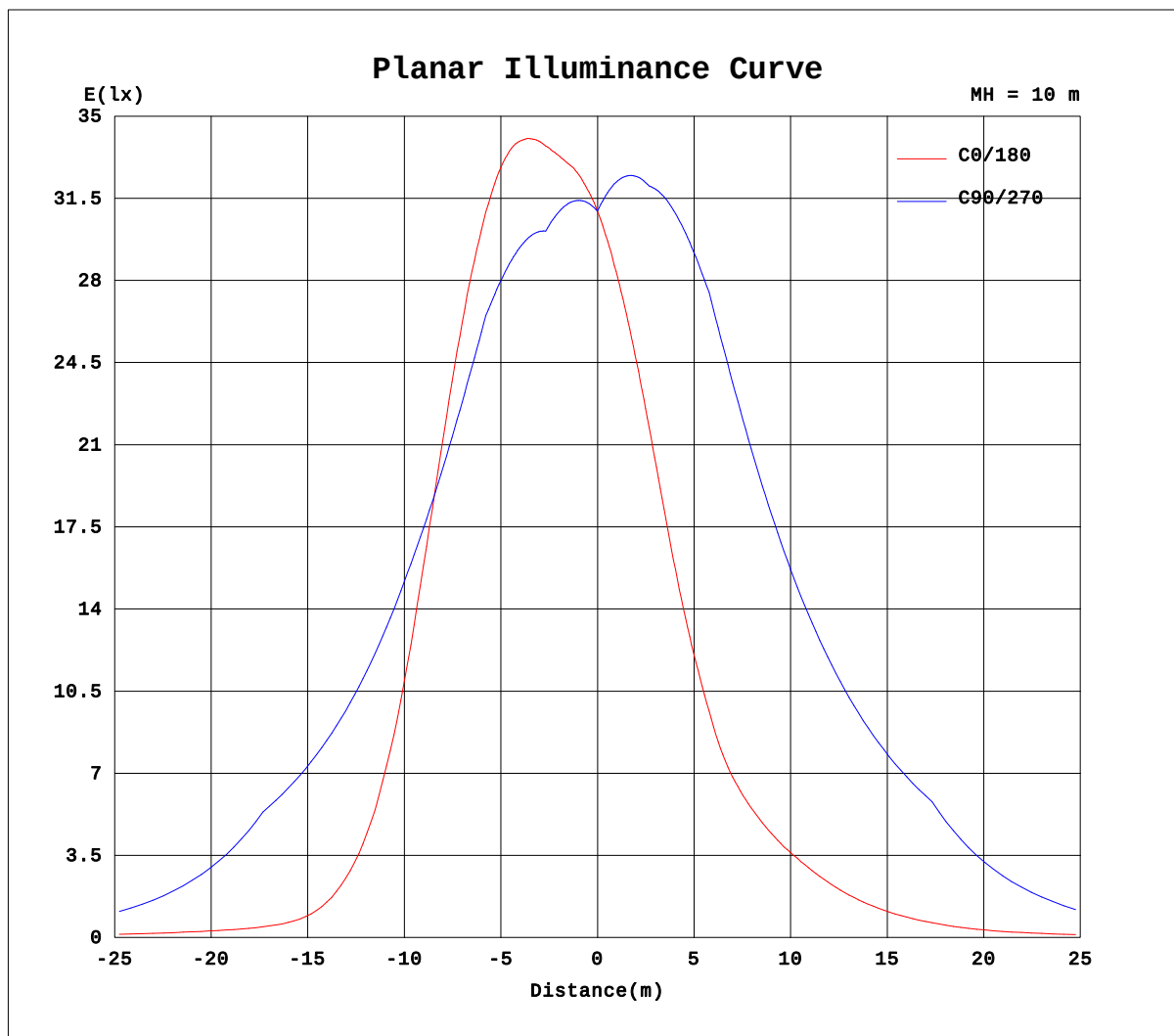
Test:U:230.4V I:0.4350A P:99.00W PF:0.9860 Lamp Flux:10996.9x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2020-03-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-2000H_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.250m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2020-03-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-2000H_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.250m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.250m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.250m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.250m [K=1.0000]
Remarks:

```

```

Range: 0 - 90DEG
Interval: 0.5DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.250m [K=1.0000]
Remarks:

```