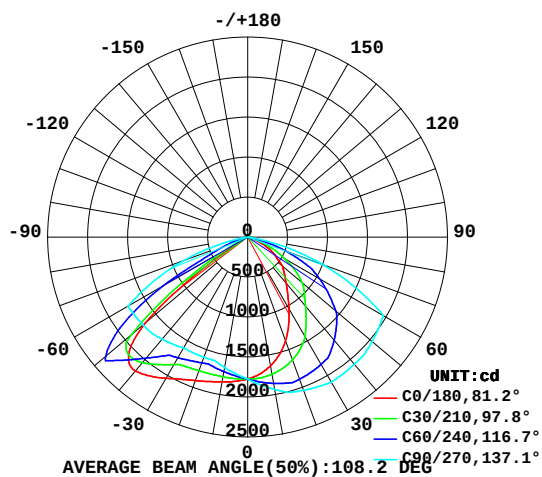


LUMINAIRE PHOTOMETRIC TEST REPORT

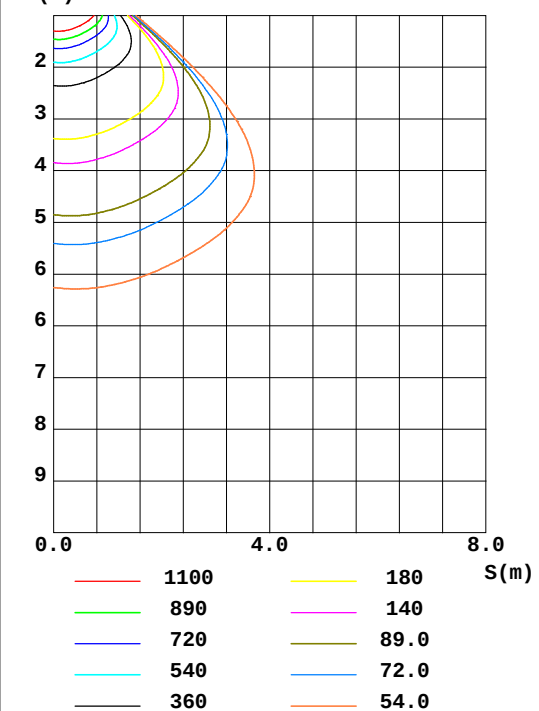
Test:U:230.4V I:0.2170A P:49.30W PF:0.9840 Lamp Flux:5747.74x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 116.59 lm/W			
MODEL	50W平板路灯	I _{max} (cd)	2564	S/MH(C0/180)	1.69
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	1.42
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	5747.7	η UP, DN(C0-180)	0.0, 45.3
NOMINAL FLUX(lm)	5747.74	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 54.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230.6	η down(%)	100.0	CIBSE SHR MAX	1.55

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	1810	1759	1717	1696	1721	1795	1854	1856	0- 5	42.48	42.48	0.74, 0.74
10	1840	1742	1657	1599	1637	1802	1933	1934	5- 10	126.8	169.3	2.95, 2.95
15	1871	1722	1598	1487	1526	1799	2011	2008	10- 15	208.9	378.2	6.58, 6.58
20	1910	1707	1600	1362	1384	1785	2039	2084	15- 20	287.6	665.8	11.6, 11.6
25	1962	1745	1601	1270	1214	1722	2067	2154	20- 25	362.3	1028	17.9, 17.9
30	2038	1806	1602	1176	1036	1637	2094	2236	25- 30	433.1	1461	25.4, 25.4
35	2122	1893	1635	1075	875.4	1536	2085	2337	30- 35	500.8	1962	34.1, 34.1
40	2187	2011	1667	972.0	749.4	1420	2076	2445	35- 40	565.8	2528	44.4, 44.4
45	2110	2202	1699	866.9	651.3	1252	2067	2511	40- 45	625.2	3153	54.9, 54.9
50	1666	2272	1709	777.8	569.5	1100	2032	2481	45- 50	661.1	3814	66.4, 66.4
55	609.8	2003	1720	697.9	440.9	963.5	1996	2231	50- 55	621.0	4435	77.2, 77.2
60	100.1	957.1	1730	542.9	334.5	727.1	1960	1253	55- 60	498.4	4933	85.8, 85.8
65	74.96	276.0	1284	386.0	200.3	487.1	1476	428.5	60- 65	373.3	5307	92.3, 92.3
70	67.43	79.68	837.3	241.2	96.34	282.5	992.3	101.4	65- 70	242.2	5549	96.5, 96.5
75	52.64	81.99	391.0	128.2	51.91	150.1	508.3	109.5	70- 75	136.5	5685	98.9, 98.9
80	30.95	66.53	0	38.88	35.81	52.23	0	94.29	75- 80	51.24	5737	99.8, 99.8
85	20.22	0	0	0	16.20	0	0	0	80- 85	9.703	5746	100, 100
90	11.29	0	0	0	12.35	0	0	0	85- 90	1.351	5748	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		

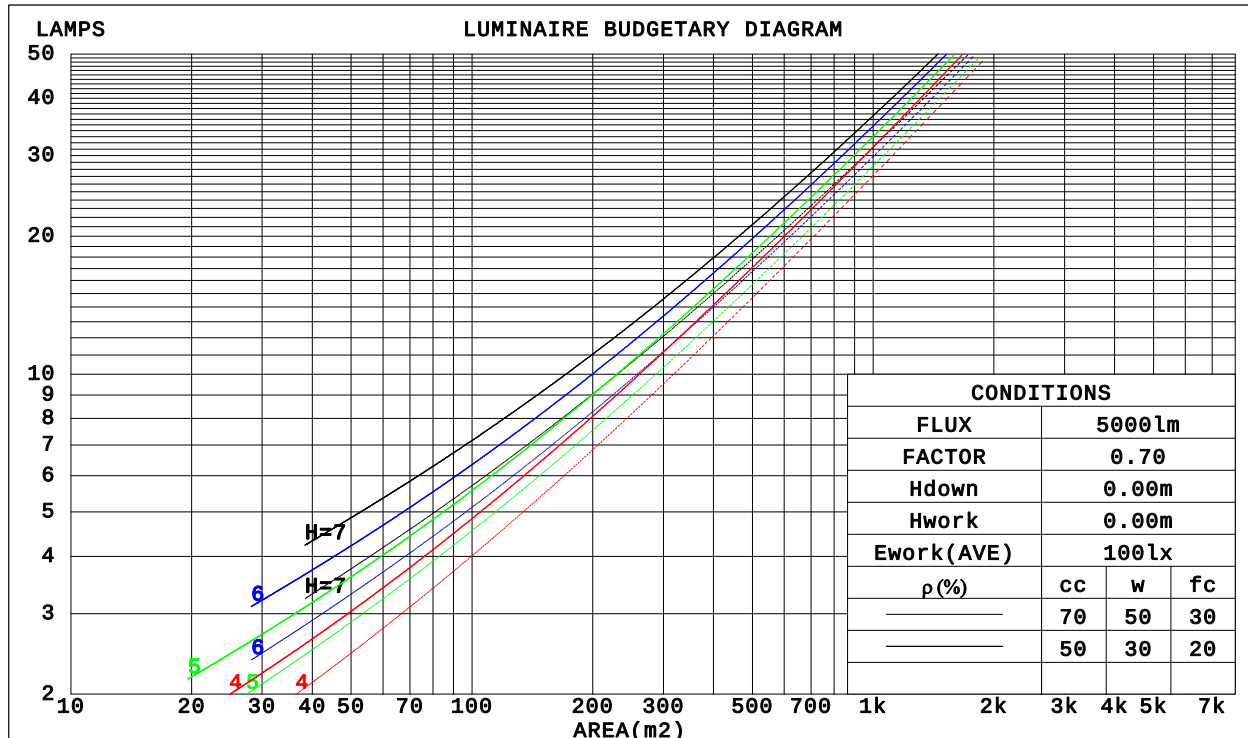
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2020-03-19

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:0.2170A P:49.30W PF:0.9840 Lamp Flux:5747.74x1 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	.98	1.03	.99	.97	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.93	.86	.81	.91	.85	.80	.87	.82	.78	.84	.80	.76	.81	.78	.75	.73
3.0	.81	.74	.67	.80	.73	.67	.77	.71	.66	.74	.69	.64	.72	.67	.63	.61
4.0	.72	.63	.57	.71	.63	.56	.68	.61	.56	.66	.60	.55	.64	.58	.54	.52
5.0	.64	.55	.49	.63	.55	.48	.61	.53	.48	.59	.52	.47	.57	.51	.47	.45
6.0	.57	.48	.42	.56	.48	.42	.55	.47	.41	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.36	.48	.41	.36	.47	.40	.36	.34
8.0	.47	.38	.33	.46	.38	.32	.45	.37	.32	.44	.37	.32	.42	.36	.32	.30
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.28	.27
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



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:0.2170A P:49.30W PF:0.9840 Lamp Flux:5747.74x1 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						Wall Exitance Coefficients(WEC)												
0.0																			
1.0	.276	.157	.050	.269	.154	.049	.256	.147	.047	.244	.141	.045	.233	.135	.044				
2.0	.271	.149	.046	.265	.146	.045	.253	.141	.044	.243	.136	.043	.233	.132	.042				
3.0	.257	.137	.041	.252	.135	.041	.241	.131	.040	.232	.127	.039	.223	.124	.038				
4.0	.241	.125	.037	.236	.124	.037	.227	.121	.036	.219	.118	.035	.211	.115	.035				
5.0	.226	.115	.033	.221	.114	.033	.213	.111	.033	.206	.109	.032	.199	.106	.032				
6.0	.211	.106	.030	.207	.105	.030	.200	.102	.030	.193	.100	.030	.187	.098	.029				
7.0	.197	.098	.028	.194	.097	.028	.188	.095	.027	.182	.093	.027	.176	.091	.027				
8.0	.185	.090	.025	.182	.090	.025	.176	.088	.025	.171	.087	.025	.166	.085	.025				
9.0	.174	.084	.024	.171	.083	.023	.166	.082	.023	.161	.081	.023	.157	.080	.023				
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.022	.148	.075	.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	.178	.156	.137	.152	.134	.118	.104	.092	.082	.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	.162	.114	.076	.139	.099	.066	.095	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.060	.133	.087	.052	.091	.061	.036	.053	.036	.022	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.129	.069	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.004	
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.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:0.2170A P:49.30W PF:0.9840 Lamp Flux:5747.74x1 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	26.5	28.0	26.7	28.2	28.4	31.9	33.4	32.2	33.6	33.8	
	3H	26.3	27.7	26.6	27.9	28.1	33.3	34.7	33.6	34.9	35.2
	4H	26.2	27.5	26.5	27.8	28.0	33.4	34.7	33.7	35.0	35.2
	6H	26.1	27.4	26.5	27.6	27.9	33.3	34.6	33.7	34.8	35.1
	8H	26.1	27.3	26.4	27.5	27.8	33.3	34.5	33.6	34.8	35.0
	12H	26.1	27.2	26.4	27.5	27.8	33.2	34.4	33.6	34.7	35.0
4H	2H	27.1	28.4	27.4	28.6	28.9	31.7	33.0	32.0	33.2	33.5
	3H	26.9	28.0	27.2	28.3	28.6	33.2	34.3	33.5	34.6	34.9
	4H	26.8	27.9	27.2	28.2	28.5	33.3	34.3	33.7	34.7	35.0
	6H	26.8	27.7	27.2	28.0	28.4	33.3	34.2	33.6	34.5	34.9
	8H	26.8	27.6	27.2	28.0	28.3	33.2	34.0	33.6	34.4	34.8
	12H	26.7	27.5	27.2	27.9	28.3	33.2	33.9	33.6	34.3	34.7
8H	4H	26.9	27.7	27.3	28.1	28.5	33.2	34.0	33.6	34.4	34.8
	6H	26.9	27.5	27.3	27.9	28.4	33.1	33.8	33.6	34.2	34.6
	8H	26.9	27.5	27.3	27.9	28.3	33.1	33.7	33.6	34.1	34.6
	12H	26.9	27.4	27.3	27.8	28.3	33.1	33.6	33.5	34.0	34.5
12H	4H	26.8	27.6	27.3	28.0	28.4	33.1	33.9	33.6	34.3	34.7
	6H	26.8	27.4	27.3	27.9	28.3	33.1	33.7	33.6	34.1	34.6
	8H	26.8	27.3	27.3	27.8	28.3	33.1	33.6	33.5	34.0	34.5
Variations with the observer position at spacings:											
S = 1.0H	+ 2.4 / - 5.2					+ 1.2 / - 1.7					
1.5H	+ 1.8 / - 1.7					+ 1.3 / - 2.3					
2.0H	+ 4.3 / - 9.4					+ 2.1 / - 4.9					

CIE Pub.117 Corrected 5748 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.1)

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:0.2170A P:49.30W PF:0.9840 Lamp Flux:5747.74x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

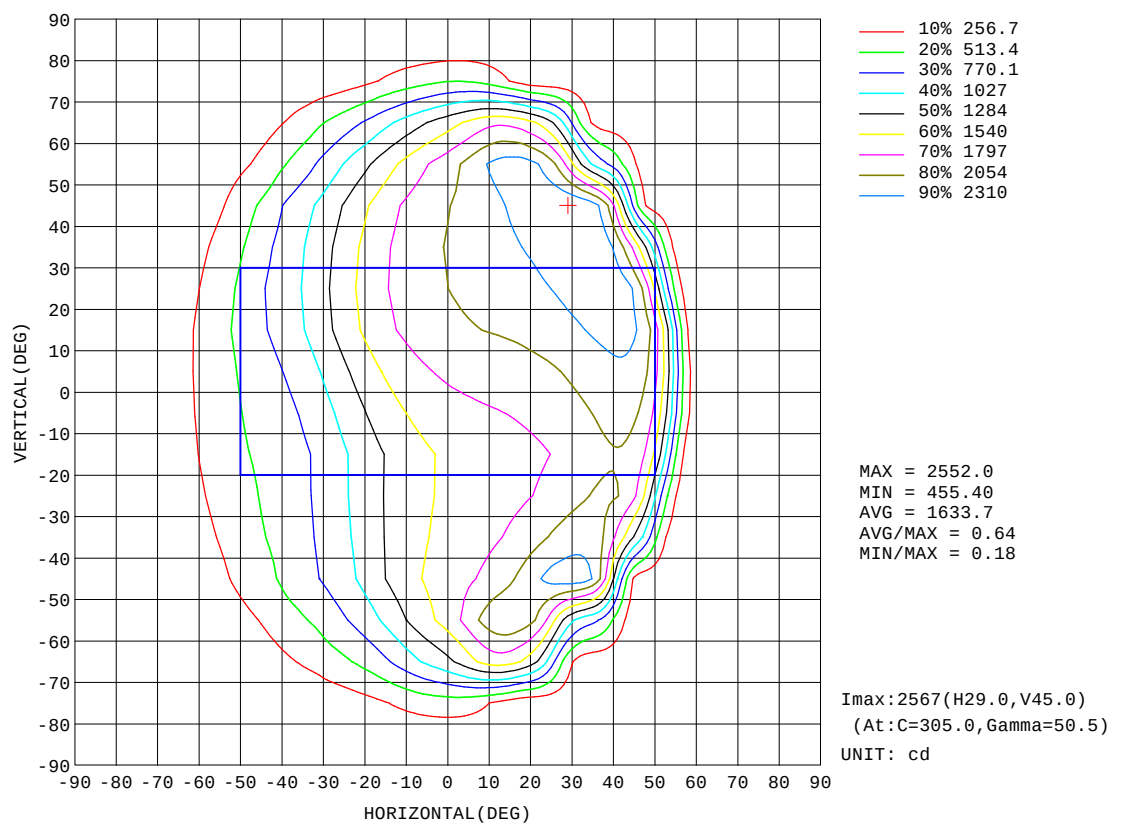
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	55	44	37	54	44	37	30
0.80	67	56	48	66	55	48	64	54	48	41
1.00	77	66	59	76	65	58	73	67	58	51
1.25	84	74	67	83	74	67	80	72	66	59
1.50	90	80	73	88	79	73	85	78	72	65
2.00	97	89	83	95	88	82	92	85	80	73
2.50	100	93	88	98	92	87	95	89	85	77
3.00	104	97	92	102	96	91	98	93	89	81
4.00	107	102	98	105	100	97	101	97	94	85
5.00	110	105	101	107	103	100	103	100	97	88
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:0.2170A P:49.30W PF:0.9840 Lamp Flux:5747.74x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

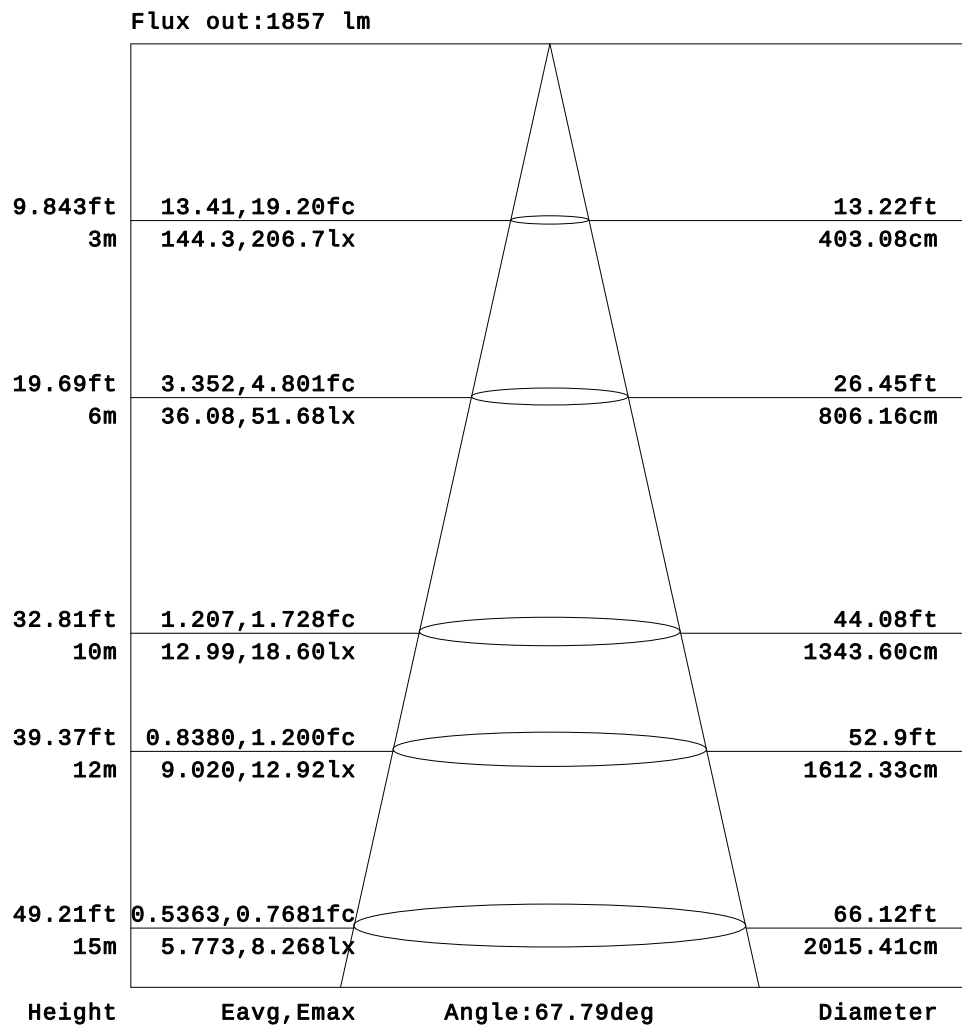


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2020-03-19

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:0.2170A P:49.30W PF:0.9840 Lamp Flux:5747.74x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



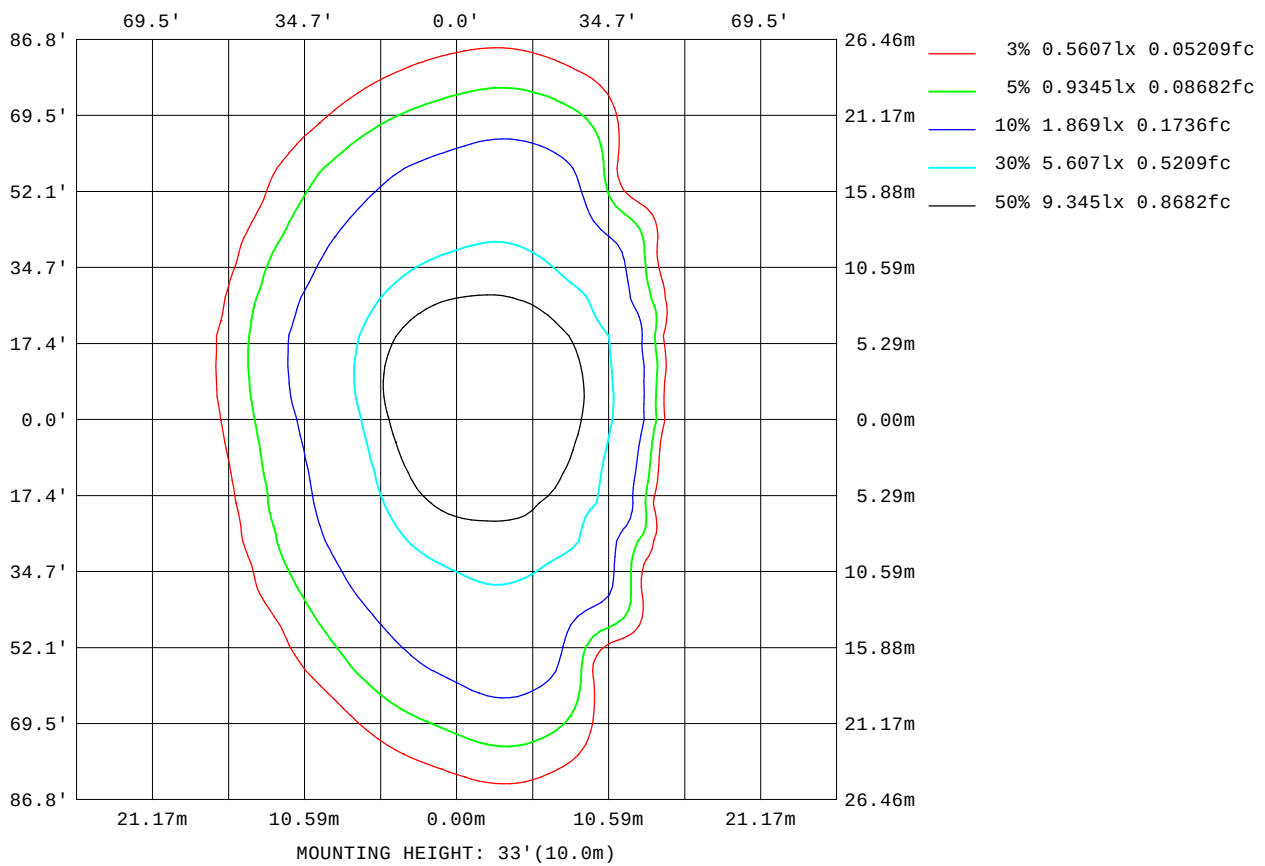
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

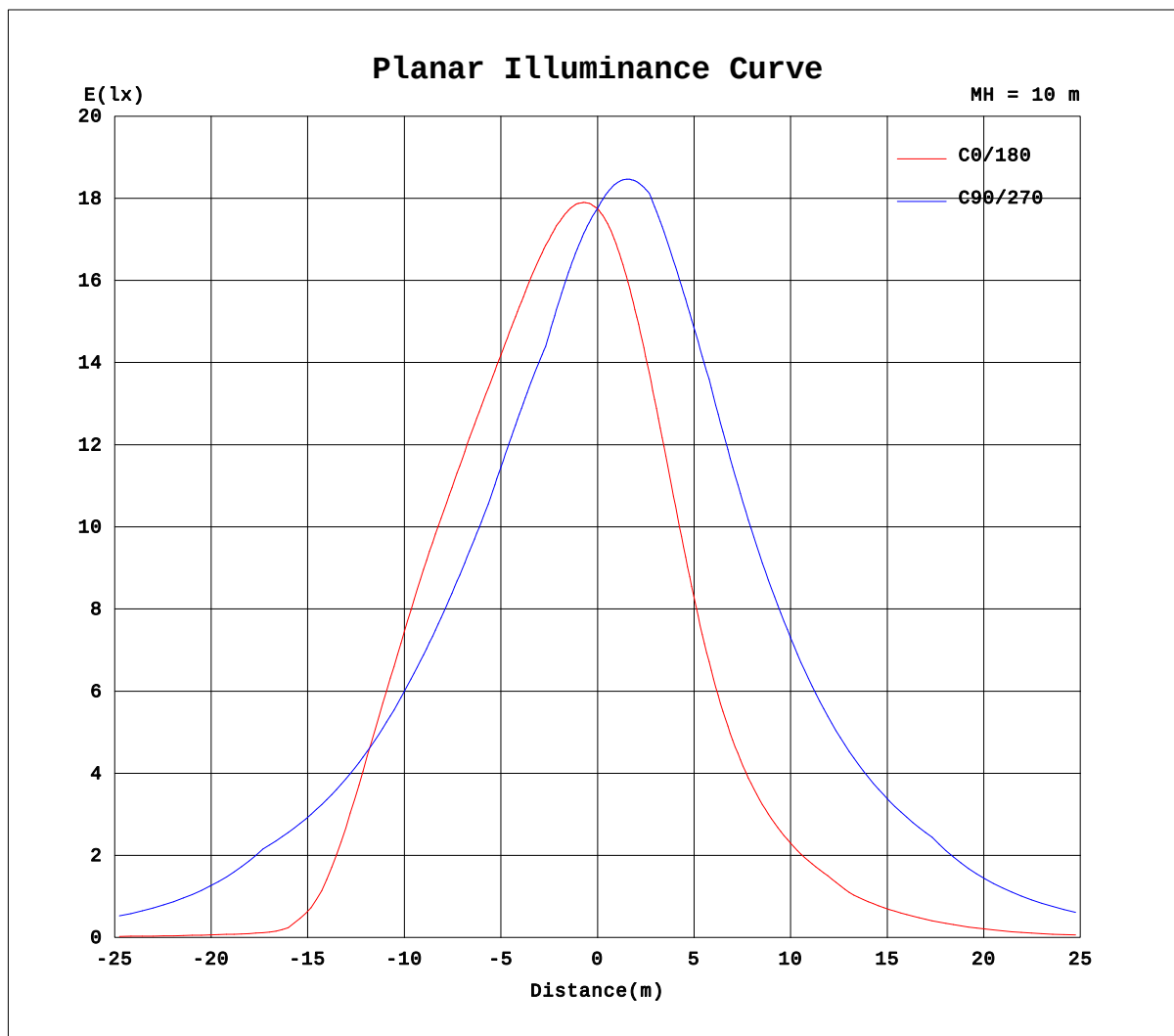
Test:U:230.4V I:0.2170A P:49.30W PF:0.9840 Lamp Flux:5747.74x1 lm		
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



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:

```

```

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:

```