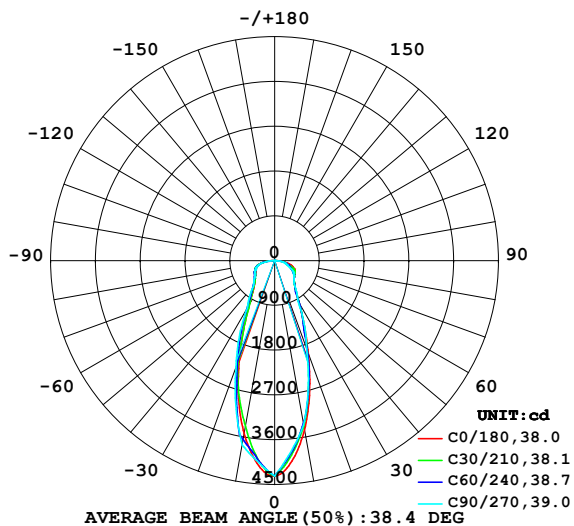


LUMINAIRE PHOTOMETRIC TEST REPORT

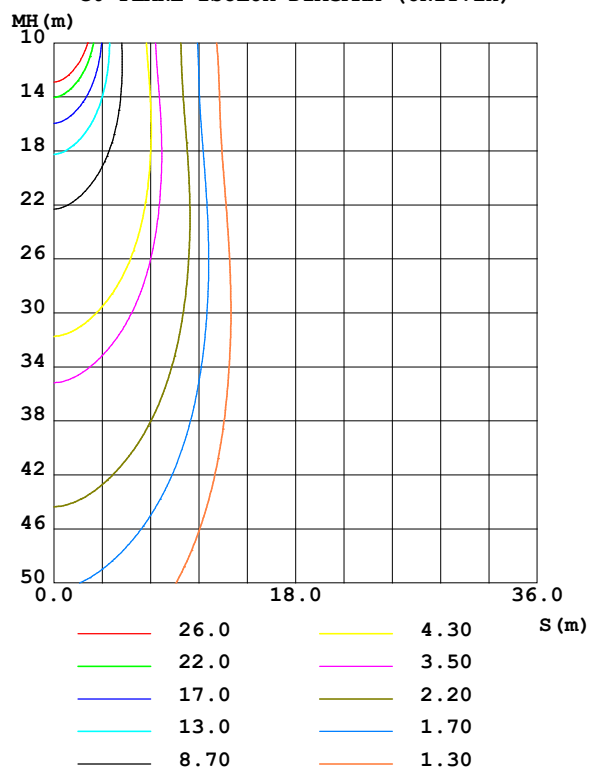
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 001
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 21.40 lm/W
MODEL	Y31807-052	Imax (cd)	4333	S/MH (C0/180)	0.62	
NOMINAL POWER(W)	197	LOR (%)	100.0	S/MH (C90/270)	0.66	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	3964.7	□ UP,DN (C0-180)	0.0,47.4	
NOMINAL FLUX(lm)	3964.73	CIE CLASS	DIRECT	□ UP,DN (C180-360)	0.0,52.6	
LAMPS INSIDE	1	□ up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	219.5	□ down (%)	100.0	CIBSE SHR MAX	0.70	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:LJM
Test Date:2023-03-25

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:8.920m [K=1.0000]
Remarks: 100-F

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	3457	3332	3359	3252	3534	3518	3763	3569	0- 10	361.7	361.7	9.12,9.12
20	1981	1979	1883	1870	2067	2104	2275	2237	10- 20	760.3	1122	28.3,28.3
30	990.5	974.8	935.1	960.8	1023	1093	1104	1104	20- 30	671.3	1793	45.2,45.2
40	627.4	616.8	612.3	555.7	638.6	662.2	662.0	655.6	30- 40	495.8	2289	57.7,57.7
50	508.0	506.6	505.4	450.7	514.7	528.8	526.6	518.7	40- 50	436.0	2725	68.7,68.7
60	456.4	450.4	434.3	445.7	458.1	469.6	460.5	458.3	50- 60	428.7	3154	79.5,79.5
70	399.7	313.1	269.5	358.6	401.1	406.1	399.5	400.5	60- 70	410.0	3564	89.9,89.9
80	227.5	188.5	178.1	159.4	245.9	248.7	260.1	253.4	70- 80	316.7	3881	97.9,97.9
90	0.9338	0	0	0	0.8044	0	0	0	80- 90	84.22	3965	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): 2509.1 lm

%lum = 63.3%

%lamp = 63.3%

Conical surface Flux(130deg): 3364.7 lm

%lum = 84.9%

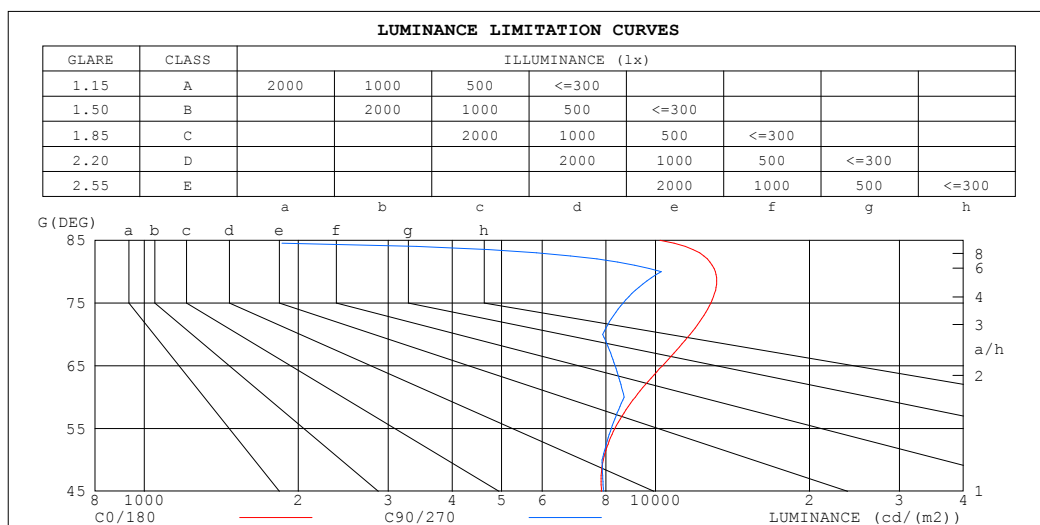
%lamp = 84.9%

H(□) Range:-90 - 90DEG
 H(□) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:LJM
 Test Date:2023-03-25

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
 Humidity:65.0%
 Test Distance:8.920m [K=1.0000]
 Remarks: 100-F

LUMINANCE LIMITATION CURVES

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 001
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	10209	0
80	13101	10256
75	12833	8639
70	11685	7881
65	10315	8333
60	9128	8687
55	8329	8194
50	7904	7862
45	7839	7906

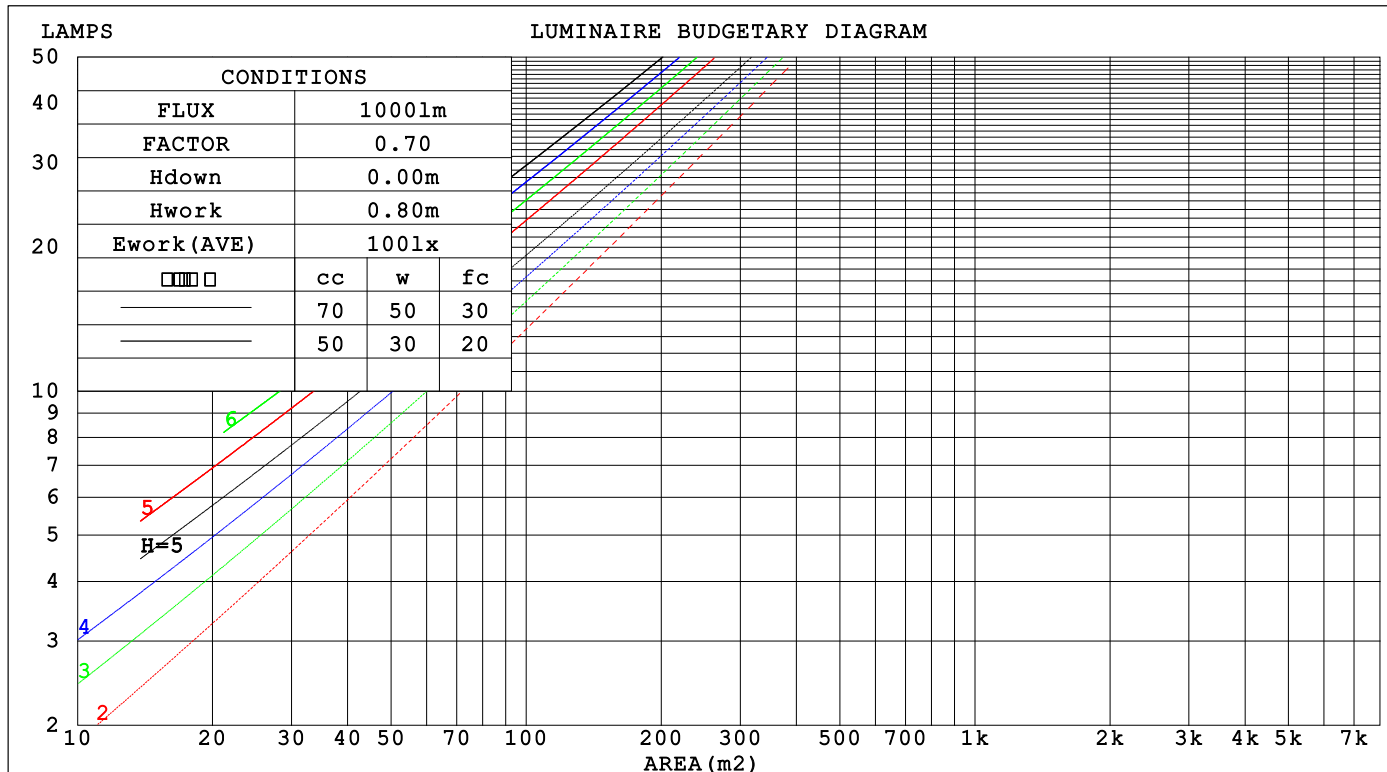
H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:LJM
Test Date:2023-03-25

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:8.920m [K=1.0000]
Remarks: 100-F

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 001
MFR.: EVERFINE	SUR.:	Shielding Angle:

□cc	80%			70%			50%			30%			10%			0														
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
□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	1.05	1.01	.97	1.03	.99	.96	.98	.95	.93	.95	.92	.90	.91	.89	.87	.85														
2.0	.93	.87	.82	.91	.85	.81	.88	.83	.79	.85	.81	.77	.82	.78	.75	.73														
3.0	.84	.76	.70	.82	.75	.70	.79	.73	.68	.76	.71	.67	.74	.70	.66	.64														
4.0	.76	.68	.62	.74	.67	.61	.72	.66	.61	.70	.64	.60	.68	.63	.59	.57														
5.0	.69	.61	.55	.68	.61	.55	.66	.60	.55	.64	.59	.54	.63	.57	.53	.51														
6.0	.64	.56	.50	.63	.56	.50	.61	.55	.50	.60	.54	.49	.58	.53	.49	.47														
7.0	.59	.52	.46	.59	.51	.46	.57	.50	.46	.56	.50	.45	.54	.49	.45	.43														
8.0	.55	.48	.43	.55	.48	.42	.53	.47	.42	.52	.46	.42	.51	.46	.42	.40														
9.0	.52	.45	.40	.51	.44	.40	.50	.44	.39	.49	.43	.39	.48	.43	.39	.37														
10.0	.49	.42	.37	.48	.42	.37	.47	.41	.37	.47	.41	.37	.46	.40	.37	.35														



H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:LJM
Test Date:2023-03-25

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:8.920m [K=1.0000]
Remarks: 100-F

WEC AND CCEC

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 001
MFR.: EVERFINE	SUR.:	Shielding Angle:

<input type="checkbox"/> cc	80%	70%	50%	30%	10%	0
<input type="checkbox"/> w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
<input type="checkbox"/> fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio					Wall Exitance Coefficients(WEC)
0.0						
1.0	.289 .164 .052	.282 .161 .051	.269 .154 .049	.256 .148 .047	.245 .142 .046	
2.0	.266 .146 .045	.260 .143 .044	.249 .138 .043	.238 .134 .042	.228 .129 .041	
3.0	.243 .129 .039	.238 .127 .038	.228 .123 .038	.219 .120 .037	.210 .116 .036	
4.0	.223 .116 .034	.218 .114 .034	.209 .111 .033	.201 .108 .033	.193 .105 .032	
5.0	.205 .104 .030	.201 .103 .030	.193 .101 .030	.186 .098 .029	.179 .096 .029	
6.0	.190 .095 .027	.186 .094 .027	.179 .092 .027	.173 .090 .026	.167 .088 .026	
7.0	.176 .087 .025	.173 .086 .025	.167 .084 .024	.161 .083 .024	.156 .081 .024	
8.0	.165 .080 .023	.162 .080 .023	.156 .078 .022	.151 .077 .022	.147 .075 .022	
9.0	.154 .075 .021	.152 .074 .021	.147 .073 .021	.143 .071 .020	.138 .070 .020	
10.0	.145 .070 .019	.143 .069 .019	.139 .068 .019	.135 .067 .019	.131 .066 .019	

<input type="checkbox"/> cc	80%	70%	50%	30%	10%	0
<input type="checkbox"/> w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
<input type="checkbox"/> 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	.179 .156 .136	.153 .134 .117	.105 .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	.159 .114 .078	.137 .098 .068	.094 .068 .047	.054 .040 .028	.017 .013 .009	
4.0	.150 .100 .062	.129 .087 .054	.089 .060 .038	.051 .035 .023	.017 .012 .007	
5.0	.142 .090 .051	.122 .077 .044	.084 .054 .031	.049 .032 .019	.016 .010 .006	
6.0	.134 .081 .043	.115 .070 .037	.080 .049 .026	.046 .029 .016	.015 .009 .005	
7.0	.127 .074 .036	.109 .064 .032	.075 .045 .022	.044 .026 .013	.014 .009 .004	
8.0	.120 .068 .031	.104 .059 .027	.072 .041 .019	.042 .024 .012	.013 .008 .004	
9.0	.114 .062 .028	.098 .054 .024	.068 .038 .017	.040 .023 .010	.013 .007 .003	
10.0	.109 .058 .024	.094 .050 .021	.065 .035 .015	.038 .021 .009	.012 .007 .003	

H(☐) Range:-90 - 90DEG
H(☐) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:LJM
Test Date:2023-03-25

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:8.920m [K=1.0000]
Remarks: 100-F

UGR(Unified Glare Rating) Table

NAME :					TYPE :		WEIGHT :				
SPEC. :					DIM. :		SERIAL No. : 001				
MFR. : EVERFINE					SUR. :		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	14.5	15.8	14.8	16.0	16.2	14.0	15.3	14.3	15.5	15.7	
	3H	17.1	18.4	17.4	18.6	18.8	15.8	17.1	16.1	17.3	17.5
	4H	18.4	19.5	18.7	19.8	20.0	16.7	17.9	17.0	18.1	18.4
	6H	19.3	20.4	19.6	20.7	20.9	17.6	18.7	17.9	19.0	19.3
	8H	19.6	20.6	19.9	20.9	21.2	17.8	18.9	18.2	19.2	19.5
	12H	19.7	20.7	20.0	21.0	21.3	17.8	18.9	18.2	19.2	19.5
4H	2H	15.3	16.5	15.6	16.7	17.0	14.9	16.1	15.2	16.3	16.6
	3H	18.0	19.1	18.4	19.4	19.7	16.9	18.0	17.3	18.3	18.6
	4H	19.3	20.3	19.7	20.6	20.9	18.0	18.9	18.3	19.3	19.6
	6H	20.3	21.1	20.7	21.5	21.8	19.0	19.9	19.4	20.2	20.6
	8H	20.5	21.3	20.9	21.7	22.1	19.3	20.1	19.7	20.5	20.9
	12H	20.7	21.4	21.1	21.8	22.2	19.3	20.1	19.7	20.4	20.8
8H	4H	19.7	20.5	20.1	20.8	21.2	18.5	19.3	19.0	19.7	20.1
	6H	20.8	21.5	21.2	21.9	22.3	19.8	20.5	20.2	20.9	21.3
	8H	21.2	21.8	21.6	22.2	22.6	20.2	20.8	20.6	21.2	21.6
	12H	21.4	21.9	21.8	22.3	22.8	20.2	20.7	20.7	21.2	21.6
12H	4H	19.7	20.4	20.1	20.8	21.2	18.6	19.4	19.0	19.7	20.1
	6H	20.9	21.5	21.4	21.9	22.4	19.9	20.6	20.4	21.0	21.4
	8H	21.3	21.8	21.8	22.3	22.8	20.3	20.9	20.8	21.3	21.8
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.3					+ 0.1 / - 0.2					
2.0H	+ 0.3 / - 0.4					+ 0.2 / - 0.3					

CIE Pub.117, 3965 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.8)
Area: 0.1 m2

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:LJM
Test Date:2023-03-25

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:8.920m [K=1.0000]
Remarks: 100-F

UTILIZATION FACTORS TABLE

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 001
MFR.: EVERFINE	SUR.:	Shielding Angle:

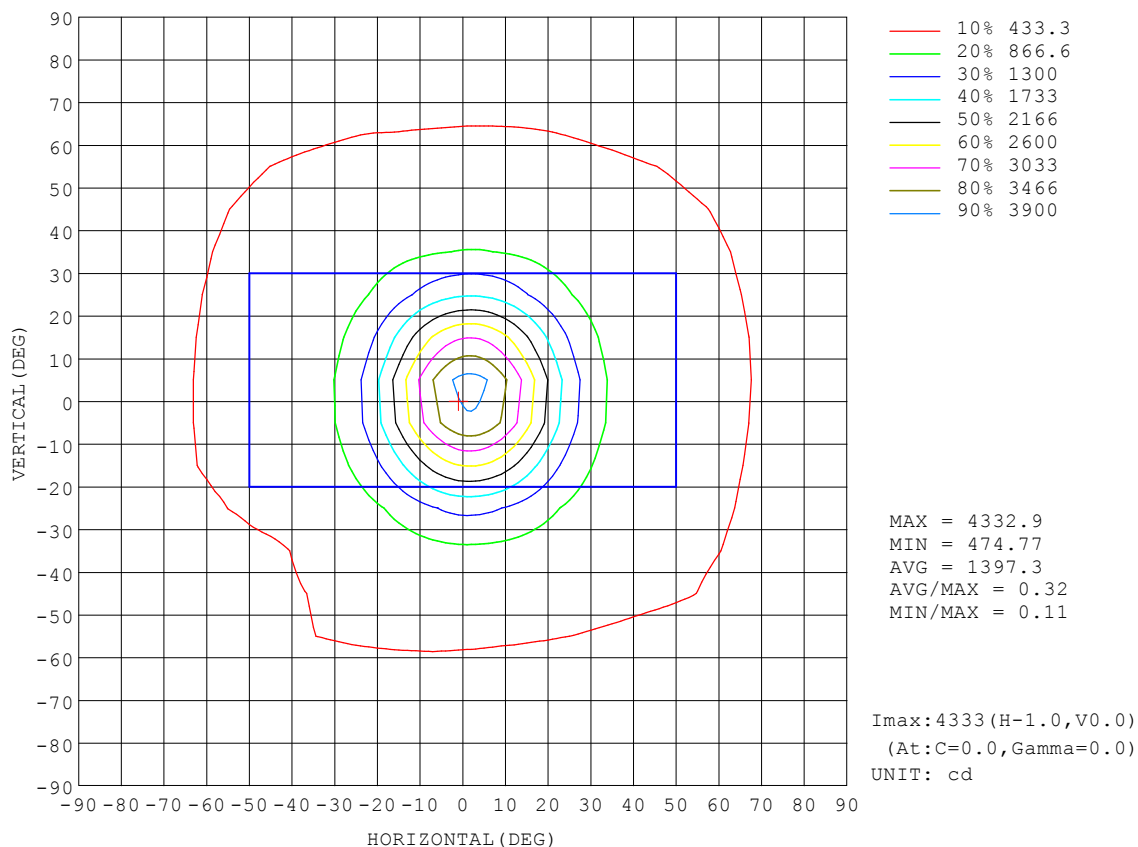
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	56	50	65	56	50	64	55	50	44
0.80	75	65	58	74	64	58	72	64	58	52
1.00	81	72	65	80	71	65	78	72	64	58
1.25	87	78	72	86	77	71	84	76	71	64
1.50	92	83	77	90	82	76	87	80	75	68
2.00	97	90	84	96	88	83	92	86	81	74
2.50	101	94	88	99	92	87	95	90	86	78
3.00	104	98	92	102	96	91	98	93	89	81
4.00	108	102	98	105	101	97	101	97	94	85
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		

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:LJM
Test Date:2023-03-25

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:8.920m [K=1.0000]
Remarks: 100-F

ISOCANDELA DIAGRAM

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 001
MFR.: EVERFINE	SUR.:	Shielding Angle:

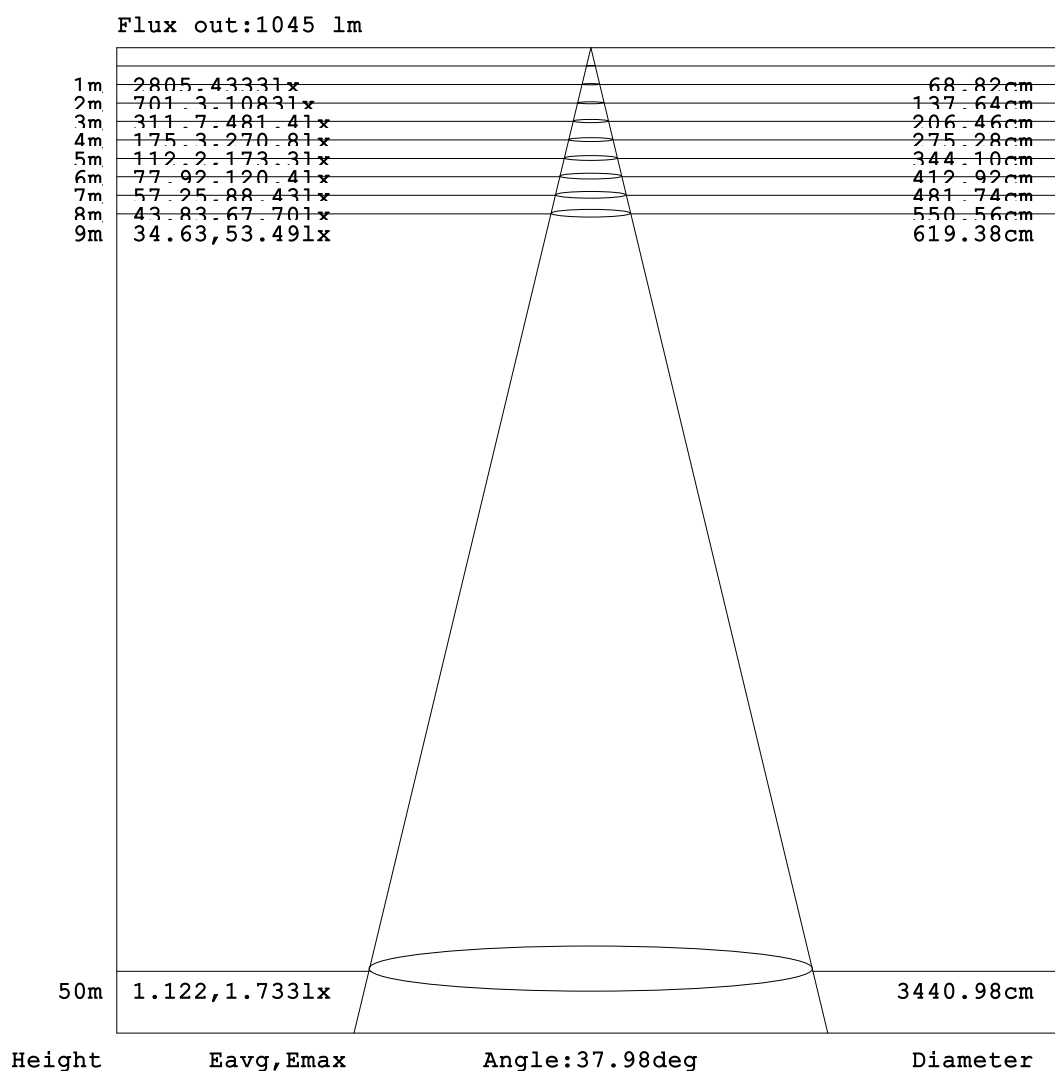


H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: LJM
Test Date: 2023-03-25

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 8.920m [K=1.0000]
Remarks: 100-F

AAI Figure

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 001
MFR.: EVERFINE	SUR.:	Shielding Angle:



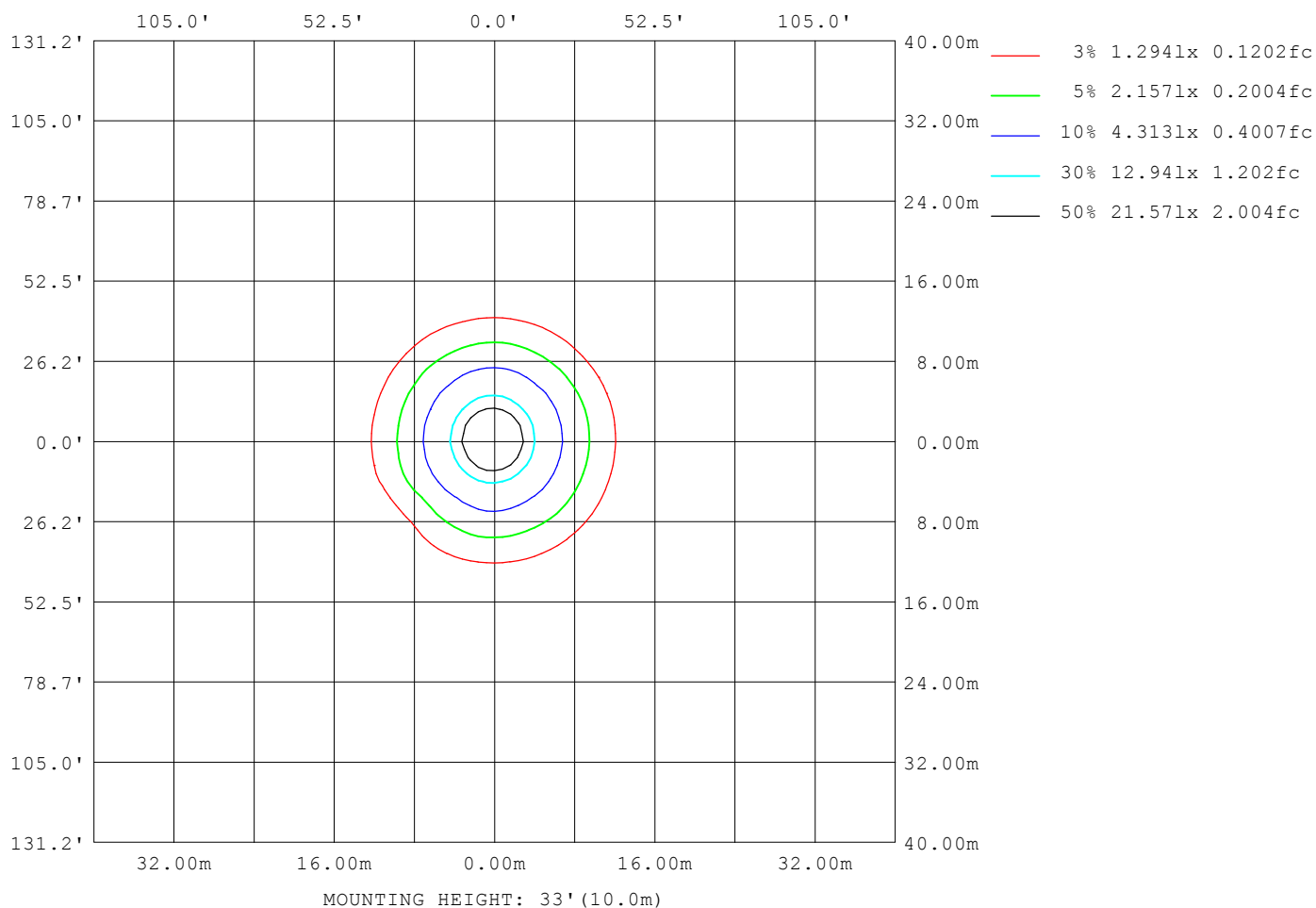
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range: -90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: LJM
Test Date: 2023-03-25

V(B) Range: -80 - 80DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 8.920m [K=1.0000]
Remarks: 100-F

ISOLUX DIAGRAM

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 001
MFR.: EVERFINE	SUR.:	Shielding Angle:



H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:LJM
Test Date:2023-03-25

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:8.920m [K=1.0000]
Remarks: 100-F

LED Avg.L Report

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 001
MFR.: EVERFINE	SUR.:	Shielding Angle:

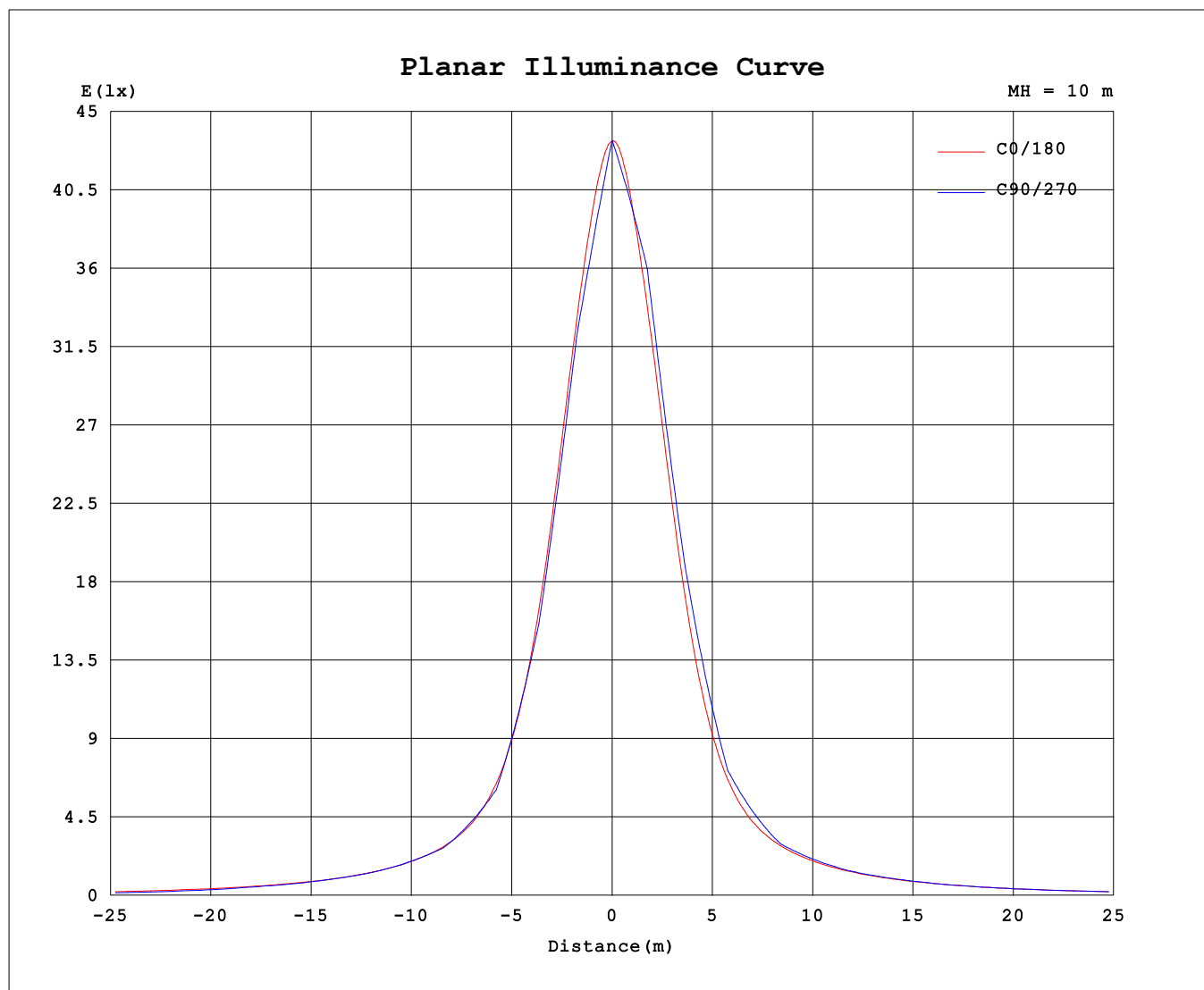
AvgL	cd/m2
L_0~180 (65) av	10309
L_0~180 (75) av	13006
L_0~180 (85) av	11770
L_90~270 (65) av	9251
L_90~270 (75) av	10681
L_90~270 (85) av	0
L_45 (65) av	9897
L_45 (75) av	11922
L_45 (85) av	7198

Standard: GB/T 29293-2012

H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:LJM
Test Date:2023-03-25

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:8.920m [K=1.0000]
Remarks: 100-F

Planar Illuminance Curve



H(□) Range:-90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:LJM
Test Date:2023-03-25

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:8.920m [K=1.0000]
Remarks: 100-F

```
V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:8.920m [K=1.0000]
Remarks: 100-F
```

```
V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:8.920m [K=1.0000]
Remarks: 100-F
```

```
V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:8.920m [K=1.0000]
Remarks: 100-F
```

```
V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:8.920m [K=1.0000]
Remarks: 100-F
```