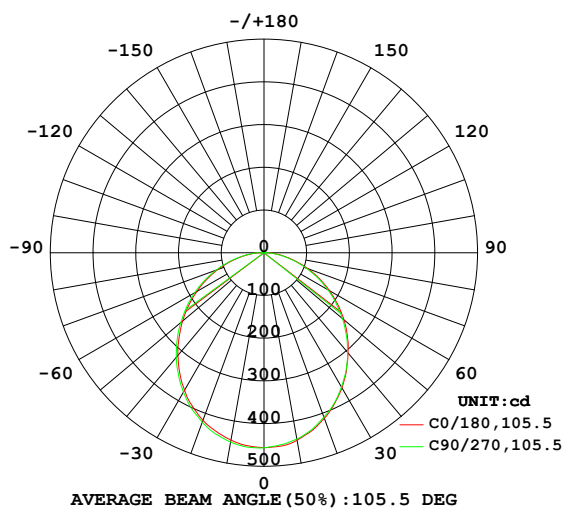


LUMINAIRE PHOTOMETRIC TEST REPORT

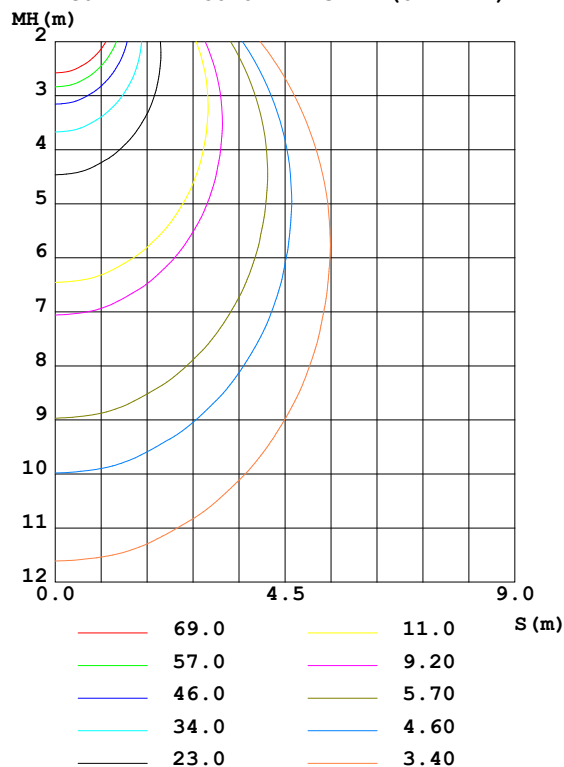
Test:U:119.98V I:0.2336A P:27.566W PF:0.9837 Freq:60.01Hz Lamp Flux:1243.78x1 lm		
NAME:	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: IFLY ILLUMINATION CO., LIMITED	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 45.12 lm/W			
MODEL	PDT-DEC-BLJ	I _{max} (cd)	458.1	S/MH (C0/180)	1.22
NOMINAL POWER (W)	27	LOR (%)	100.0	S/MH (C90/270)	1.23
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1243.8	η UP, DN (C0-180)	0.8, 48.0
NOMINAL FLUX (lm)	1243.78	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.6, 50.6
LAMPS INSIDE	1	η up (%)	1.3	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η down (%)	98.7	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.9DEG
 Operators: Link Chai
 Test Date: 2022-03-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity: 60%
 Test Distance: 26.000m [K=1.4760]
 Remarks: 220301077B

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	445.4	442.1	443.0	444.9	445.3	448.3	450.0	451.9	0- 10	43.12	43.12	3.47,3.47
20	412.6	410.6	409.7	413.5	417.6	420.7	422.1	422.6	10- 20	122.2	165.4	13.3,13.3
30	365.2	363.2	362.9	366.8	372.1	376.6	377.2	375.6	20- 30	181.9	347.3	27.9,27.9
40	306.0	304.1	304.6	307.7	313.6	318.1	319.7	318.0	30- 40	213.8	561.0	45.1,45.1
50	244.2	240.4	239.8	240.7	249.0	252.0	254.5	254.3	40- 50	215.9	776.9	62.5,62.5
60	176.7	173.2	172.3	173.2	181.5	184.9	187.4	187.5	50- 60	190.8	967.8	77.8,77.8
70	109.3	105.7	105.3	106.5	114.9	117.4	119.4	119.3	60- 70	144.1	1112	89.4,89.4
80	47.98	45.54	44.38	45.37	53.44	55.42	56.69	56.39	70- 80	84.88	1197	96.2,96.2
90	6.413	6.349	6.139	6.251	6.550	11.49	13.62	13.25	80- 90	30.22	1227	98.7,98.7
100	5.089	5.280	5.223	5.171	4.020	3.956	3.897	4.082	90-100	5.845	1233	99.1,99.1
110	3.940	4.127	4.397	4.336	3.118	2.803	2.568	2.667	100-110	4.360	1237	99.5,99.5
120	2.792	3.218	0.4145	2.917	2.462	1.726	0.8369	1.498	110-120	2.713	1240	99.7,99.7
130	2.054	2.230	1.824	1.504	1.231	0.6596	0.5803	0.5000	120-130	1.507	1241	99.8,99.8
140	1.559	1.403	1.575	1.167	0.4924	0.9069	0.5803	0.5019	130-140	0.9221	1242	99.9,99.9
150	0.9044	0.9069	0.9119	0.9167	0.9020	0.9069	0.9948	0.9191	140-150	0.5920	1243	99.9,99.9
160	0.7386	0.9069	0.8290	0.9167	1.149	0.9930	1.161	1.083	150-160	0.4253	1243	100,100
170	1.394	1.237	1.325	1.168	1.395	1.402	1.326	1.333	160-170	0.2933	1244	100,100
180	1.313	1.319	1.409	1.417	1.395	1.487	1.326	1.333	170-180	0.1280	1244	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 670.5 lm

%lum = 53.9%

%lamp = 53.9%

Conical surface Flux(120deg): 967.76 lm

%lum = 77.8%

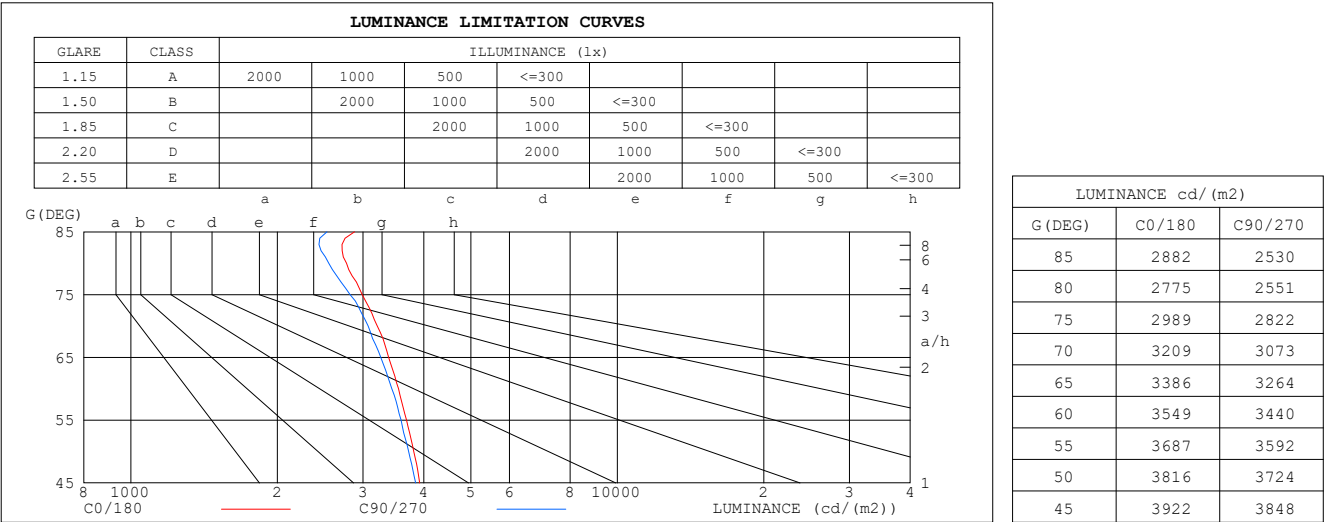
%lamp = 77.8%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Link Chai
 Test Date:2022-03-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:26.000m [K=1.4760]
 Remarks:220301077B

LUMINANCE LIMITATION CURVES

Test:U:119.98V I:0.2336A P:27.566W PF:0.9837 Freq:60.01Hz Lamp Flux:1243.78x1 lm		
NAME:	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: IFLY ILLUMINATION CO., LIMITED	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Link Chai
Test Date:2022-03-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:60%
Test Distance:26.000m [K=1.4760]
Remarks:220301077B

WEC AND CCEC

Test:U:119.98V I:0.2336A P:27.566W PF:0.9837 Freq:60.01Hz Lamp Flux:1243.78x1 lm								
NAME:			TYPE:N/A			WEIGHT:N/A		
SPEC.:N/A			DIM.:			SERIAL No.:N/A		
MFR.: IFLY ILLUMINATION CO., LIMITED			SUR.:			Shielding Angle:		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.312	.177	.056	.304	.174	.055	.290	.166	.053	.277	.160	.051	.265	.154	.050		
2.0	.291	.159	.049	.284	.156	.048	.272	.151	.047	.260	.146	.046	.250	.141	.045		
3.0	.268	.143	.043	.262	.140	.042	.251	.136	.041	.241	.132	.041	.232	.128	.040		
4.0	.247	.128	.038	.242	.127	.037	.232	.123	.037	.223	.120	.036	.215	.117	.036		
5.0	.228	.116	.034	.224	.115	.033	.215	.112	.033	.207	.109	.032	.199	.107	.032		
6.0	.212	.106	.030	.208	.105	.030	.200	.102	.030	.193	.100	.029	.186	.098	.029		
7.0	.197	.097	.028	.193	.096	.027	.186	.094	.027	.180	.092	.027	.174	.090	.027		
8.0	.184	.090	.025	.181	.089	.025	.175	.087	.025	.169	.085	.025	.163	.084	.024		
9.0	.173	.083	.023	.170	.083	.023	.164	.081	.023	.159	.080	.023	.154	.078	.023		
10.0	.162	.078	.022	.160	.077	.022	.155	.076	.021	.150	.074	.021	.145	.073	.021		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.201	.201	.201	.172	.172	.172	.117	.117	.117	.067	.067	.067	.022	.022	.022	
1.0	.191	.166	.145	.163	.143	.124	.112	.098	.086	.064	.057	.050	.021	.018	.016	
2.0	.183	.142	.109	.156	.123	.094	.107	.085	.065	.062	.049	.038	.020	.016	.013	
3.0	.175	.125	.085	.150	.108	.074	.103	.075	.052	.059	.044	.030	.019	.014	.010	
4.0	.167	.111	.069	.143	.096	.060	.098	.067	.042	.057	.039	.025	.018	.013	.008	
5.0	.159	.101	.058	.137	.087	.050	.094	.061	.036	.055	.036	.021	.018	.012	.007	
6.0	.152	.093	.050	.131	.080	.044	.090	.056	.031	.052	.033	.018	.017	.011	.006	
7.0	.145	.086	.044	.125	.074	.038	.086	.052	.027	.050	.031	.016	.016	.010	.005	
8.0	.139	.080	.040	.120	.069	.034	.083	.049	.024	.048	.029	.015	.016	.009	.005	
9.0	.133	.075	.036	.114	.065	.031	.079	.046	.022	.046	.027	.013	.015	.009	.004	
10.0	.127	.071	.033	.110	.061	.029	.076	.043	.021	.044	.026	.012	.014	.008	.004	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Link Chai
 Test Date:2022-03-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:26.000m [K=1.4760]
 Remarks:220301077B

UGR(Unified Glare Rating) Table

Test:U:119.98V I:0.2336A P:27.566W PF:0.9837 Freq:60.01Hz Lamp Flux:1243.78x1 lm											
NAME:					TYPE:N/A			WEIGHT:N/A			
SPEC.:N/A					DIM.:			SERIAL No.:N/A			
MFR.: IFLY ILLUMINATION CO., LIMITED					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		17.1	18.6	17.4	18.8	19.1	17.0	18.5	17.3	18.7	19.0
	3H	18.6	20.0	18.9	20.2	20.5	18.4	19.8	18.7	20.1	20.3
	4H	19.2	20.5	19.5	20.8	21.0	19.0	20.3	19.3	20.6	20.9
	6H	19.6	20.9	20.0	21.1	21.5	19.4	20.6	19.7	20.9	21.2
	8H	19.8	21.0	20.1	21.3	21.6	19.5	20.7	19.9	21.0	21.3
	12H	19.9	21.0	20.3	21.4	21.7	19.6	20.8	20.0	21.1	21.4
4H	2H	17.7	19.0	18.0	19.3	19.5	17.6	18.9	17.9	19.2	19.5
	3H	19.3	20.5	19.7	20.8	21.1	19.2	20.3	19.6	20.7	21.0
	4H	20.0	21.1	20.4	21.4	21.8	19.9	20.9	20.3	21.3	21.6
	6H	20.6	21.5	21.0	21.9	22.3	20.4	21.3	20.8	21.7	22.1
	8H	20.8	21.7	21.3	22.1	22.5	20.6	21.5	21.0	21.9	22.3
	12H	21.0	21.8	21.5	22.2	22.7	20.8	21.6	21.2	22.0	22.4
8H	4H	20.3	21.2	20.7	21.5	22.0	20.1	21.0	20.6	21.4	21.8
	6H	21.0	21.7	21.5	22.2	22.6	20.8	21.5	21.3	22.0	22.4
	8H	21.3	22.0	21.8	22.4	22.9	21.1	21.7	21.6	22.2	22.7
	12H	21.6	22.2	22.1	22.6	23.1	21.3	21.9	21.8	22.4	22.9
12H	4H	20.3	21.1	20.7	21.5	21.9	20.2	21.0	20.6	21.4	21.8
	6H	21.1	21.7	21.5	22.2	22.6	20.9	21.5	21.4	22.0	22.5
	8H	21.4	22.0	21.9	22.4	22.9	21.2	21.8	21.7	22.2	22.7
Variations with the observer position at spacings:											
S = 1.0H		+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H		+ 0.2 / - 0.2					+ 0.2 / - 0.2				

CIE Pub.117, 1244 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 0.8$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Link Chai
 Test Date:2022-03-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:26.000m [K=1.4760]
 Remarks:220301077B

UTILIZATION FACTORS TABLE

Test:U:119.98V I:0.2336A P:27.566W PF:0.9837 Freq:60.01Hz Lamp Flux:1243.78x1 lm		
NAME:	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: IFLY ILLUMINATION CO., LIMITED	SUR.:	Shielding Angle:

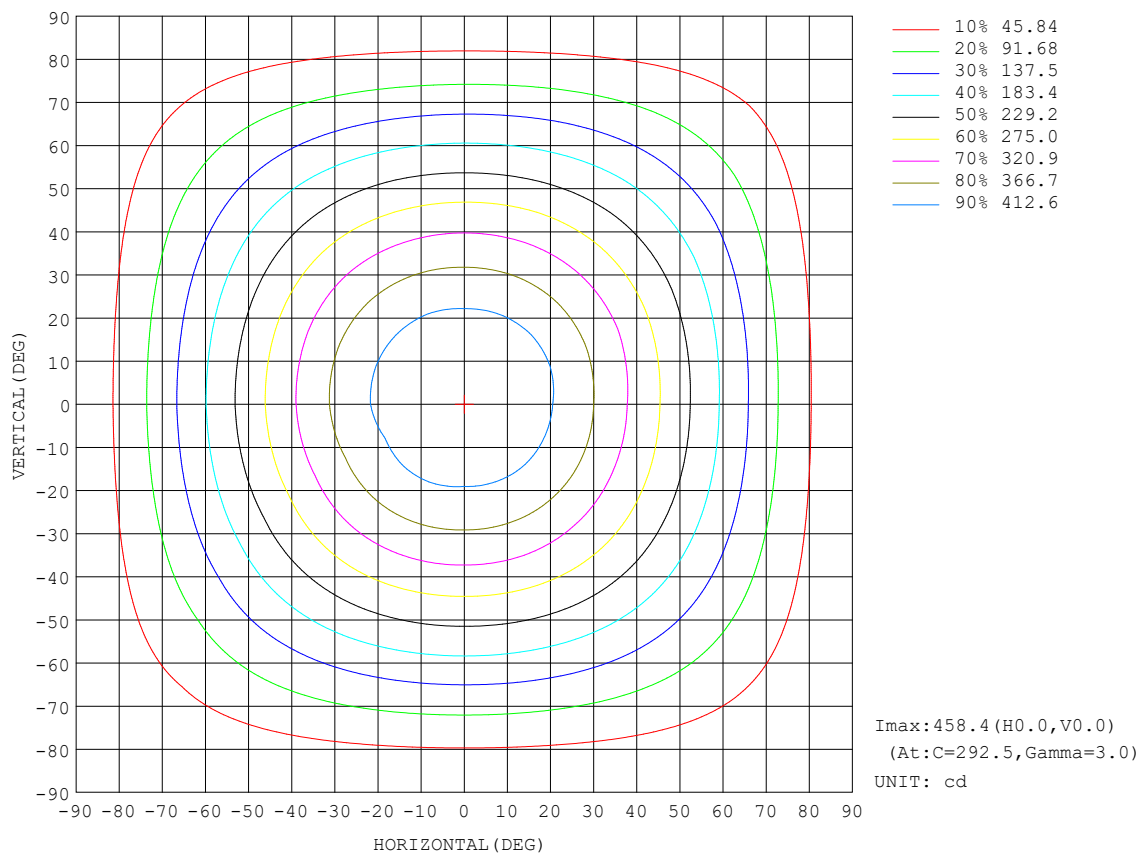
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	45	39	33
0.80	68	56	49	67	56	49	65	55	48	41
1.00	76	65	58	75	64	57	72	66	57	50
1.25	83	72	65	81	72	65	79	70	64	57
1.50	88	78	71	86	77	70	83	75	69	62
2.00	95	86	80	93	85	79	89	82	77	69
2.50	98	91	85	96	89	84	92	86	82	73
3.00	102	95	89	100	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	97	101	97	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Link Chai
 Test Date:2022-03-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:26.000m [K=1.4760]
 Remarks:220301077B

ISOCANDELA DIAGRAM

Test:U:119.98V I:0.2336A P:27.566W PF:0.9837 Freq:60.01Hz Lamp Flux:1243.78x1 lm		
NAME:	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: IFLY ILLUMINATION CO., LIMITED	SUR.:	Shielding Angle:

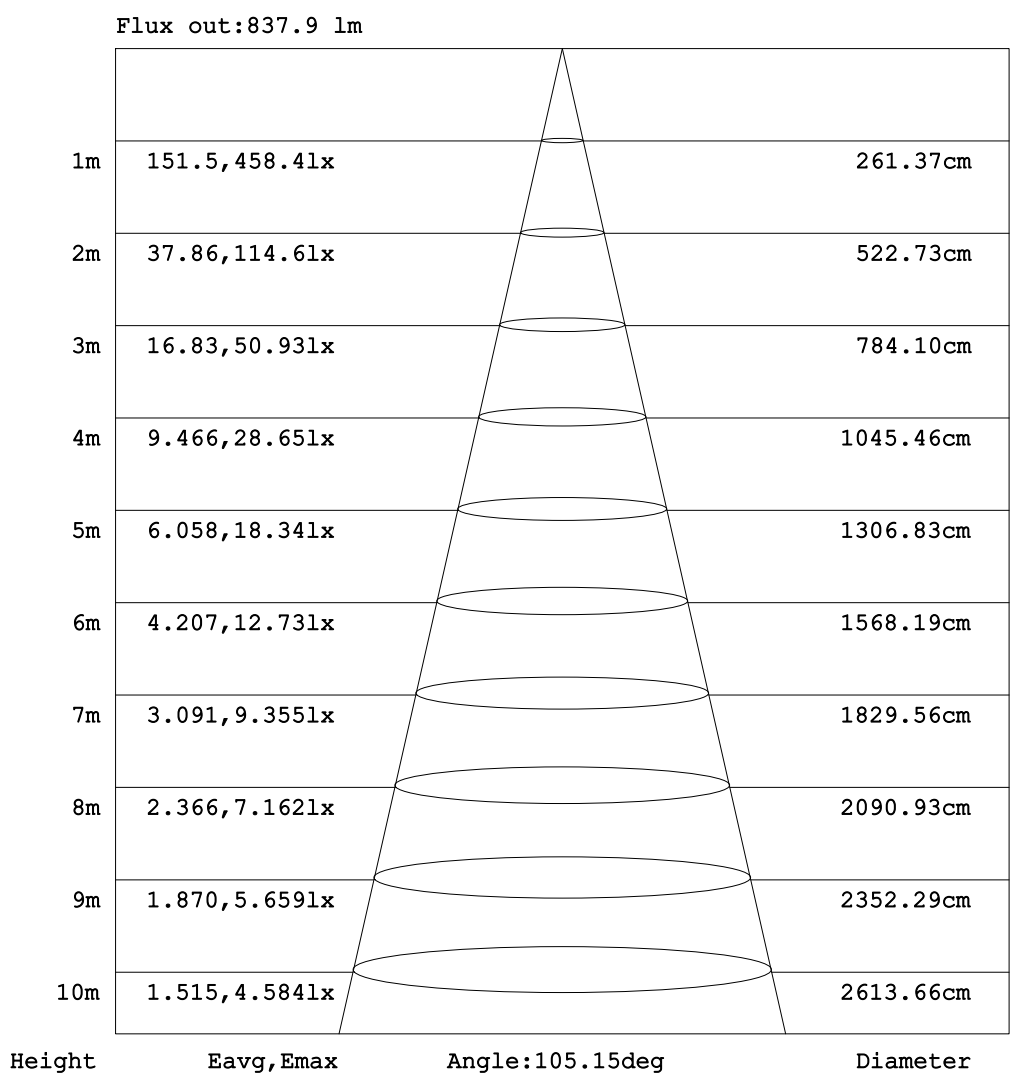


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.9DEG
Operators: Link Chai
Test Date: 2022-03-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity: 60%
Test Distance: 26.000m [K=1.4760]
Remarks: 220301077B

AAI Figure

Test:U:119.98V I:0.2336A P:27.566W PF:0.9837 Freq:60.01Hz Lamp Flux:1243.78x1 lm		
NAME:	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: IFLY ILLUMINATION CO., LIMITED	SUR.:	Shielding Angle:

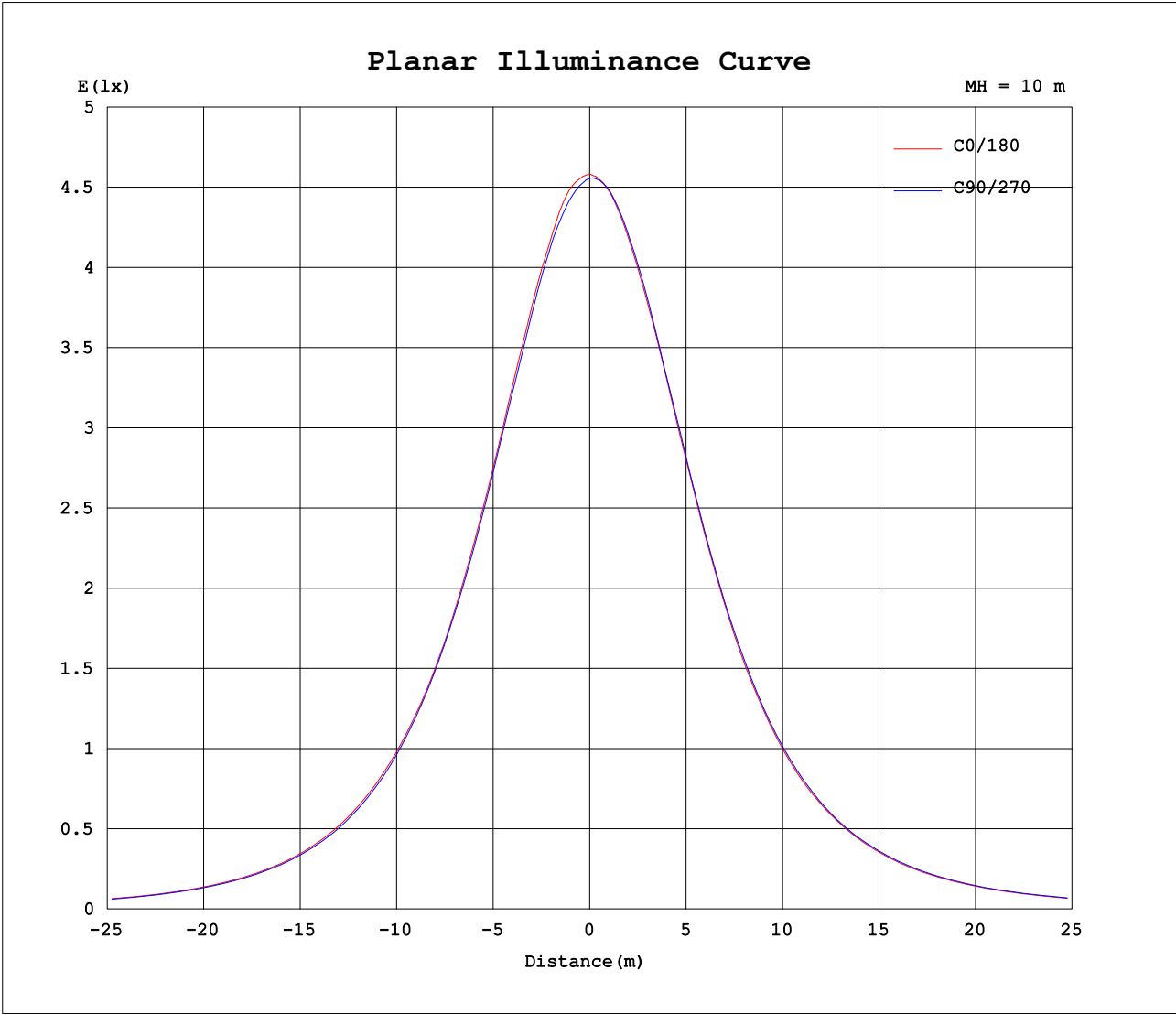


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Link Chai
 Test Date:2022-03-24

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:26.000m [K=1.4760]
 Remarks:220301077B

Planar Illuminance Curve



C Range: 0 - 360DEG	γ Range: 0 - 180DEG
C Interval: 22.5DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Temperature:24.9DEG	Humidity:60%
Operators:Link Chai	Test Distance:26.000m [K=1.4760]
Test Date:2022-03-24	Remarks:220301077B

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.98V I:0.2336A P:27.566W PF:0.9837 Freq:60.01Hz Lamp Flux:1243.78x1 lm		
NAME:	TYPE:N/A	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: IFLY ILLUMINATION CO., LIMITED	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	456	456	456	456	456	456	456	456	456	456	456	456	456	456	456	456			
5	454	455	453	451	451	452	454	453	453	455	455	455	457	457	457	456			
10	445	445	442	442	443	444	445	445	445	448	448	449	450	451	452	451			
15	432	431	429	428	429	429	431	432	433	436	436	438	439	439	440	438			
20	413	412	411	409	410	412	414	414	418	420	421	421	422	423	423	421			
25	390	390	388	388	389	390	391	393	396	400	401	402	402	401	401	399			
30	365	365	363	363	363	365	367	368	372	376	377	377	377	377	376	373			
35	336	335	333	334	335	336	338	339	344	348	349	349	349	349	348	345			
40	306	305	304	304	305	306	308	309	314	317	318	319	320	320	318	316			
45	276	275	273	273	273	273	275	276	281	284	286	286	287	287	287	285			
50	244	242	240	240	240	240	241	243	249	251	252	253	254	255	254	253			
55	211	209	207	206	206	206	207	209	216	217	219	220	221	221	220	219			
60	177	175	173	173	172	172	173	175	182	183	185	186	187	188	188	186			
65	142	141	139	139	138	138	139	140	148	149	150	152	153	154	153	152			
70	109	107	106	105	105	106	107	107	115	116	117	118	119	120	119	118			
75	77.0	75.7	74.5	73.7	73.2	73.3	73.8	74.8	82.9	83.6	85.0	85.7	86.5	87.0	86.8	85.7			
80	48.0	46.7	45.5	44.6	44.4	44.6	45.4	46.4	53.4	54.3	55.4	56.1	56.7	56.9	56.4	55.7			
85	25.0	24.5	23.6	22.6	22.1	22.0	22.7	23.5	28.4	29.1	30.0	30.5	30.6	30.7	30.5	30.0			
90	6.41	6.43	6.35	6.28	6.14	6.16	6.25	6.25	6.55	8.36	11.5	13.0	13.6	13.7	13.2	12.3			
95	5.66	5.69	5.69	5.70	5.55	5.57	5.67	5.67	4.68	4.61	4.53	4.54	4.56	4.66	4.50	4.66			
100	5.09	5.19	5.28	5.29	5.22	5.32	5.17	5.17	4.02	4.11	3.96	4.05	3.90	4.07	4.08	4.08			
105	4.52	4.69	4.70	4.79	4.89	4.91	4.84	4.83	3.86	3.79	3.71	3.30	3.31	3.32	3.42	3.83			
110	3.94	3.96	4.13	4.21	4.40	4.33	4.34	4.25	3.12	2.96	2.80	2.64	2.57	2.66	2.67	2.99			
115	3.37	3.54	3.71	3.72	3.66	2.67	3.67	3.67	2.71	2.64	2.39	1.13	1.65	1.74	2.41	2.58			
120	2.79	3.13	3.22	1.57	0.41	1.64	2.92	3.25	2.46	1.97	1.73	1.16	0.84	0.58	1.50	1.91			
125	2.46	2.72	2.64	1.57	1.82	1.75	2.17	2.92	1.72	1.56	1.07	0.91	0.74	0.42	1.08	1.33			
130	2.05	2.31	2.23	1.57	1.82	1.75	1.50	2.33	1.23	1.32	0.66	0.83	0.58	0.42	0.50	1.00			
135	1.81	2.06	2.06	1.57	1.82	1.66	1.17	1.67	0.74	0.58	0.82	0.83	0.58	0.42	0.50	0.67			
140	1.56	1.89	1.40	1.57	1.58	1.25	1.17	0.83	0.49	0.66	0.91	0.83	0.58	0.50	0.50	0.67			
145	1.32	1.48	0.91	1.32	0.91	1.00	1.08	0.83	0.58	0.82	0.91	0.91	0.74	0.58	0.67	0.67			
150	0.90	0.99	0.91	0.99	0.91	0.75	0.92	0.83	0.90	0.91	0.91	0.99	0.99	1.00	0.92	0.83			
155	0.82	0.82	0.91	0.83	0.83	0.67	0.92	0.83	0.99	0.91	0.91	1.07	1.16	1.00	1.00	0.92			
160	0.74	0.82	0.91	0.83	0.83	0.67	0.92	0.83	1.15	1.15	0.99	1.07	1.16	1.08	1.08	0.92			
165	1.14	0.90	0.91	0.83	0.83	0.67	0.92	0.83	1.23	1.24	1.32	1.16	1.16	1.08	1.08	1.00			
170	1.39	1.23	1.24	1.07	1.33	0.83	1.17	1.33	1.40	1.48	1.40	1.40	1.33	1.50	1.33	1.33			
175	1.31	1.32	1.24	1.24	1.41	1.17	1.25	1.50	1.40	1.40	1.40	1.49	1.33	1.58	1.33	1.42			
180	1.31	1.24	1.32	1.57	1.41	1.33	1.42	1.50	1.40	1.32	1.49	1.32	1.33	1.41	1.33	1.33			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Link Chai
Test Date:2022-03-24

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:60%
Test Distance:26.000m [K=1.4760]
Remarks:220301077B