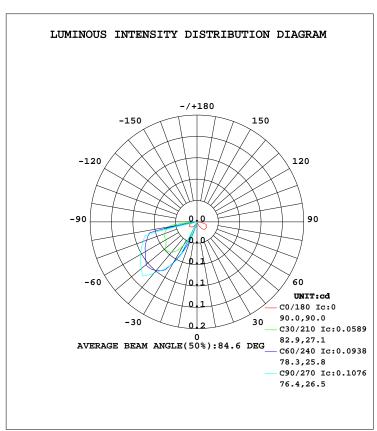
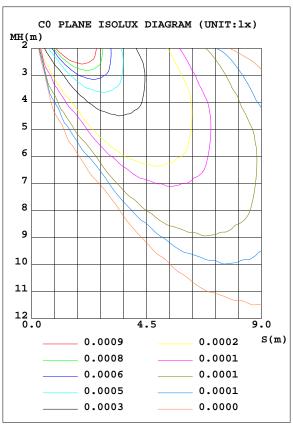


### LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:11.96V I:0.1362A P:0.8773W PF:0.5388 Lamp Flux:235x1 lm									
NAME: 489883-2700K TYPE:489883-2700K WEIGHT:									
SPEC.:	DIM.:	SERIAL No.:							
MFR.:	SUR.:	PROTECTION ANGLE:							

DA	TA OF LAM	IP		PHOTOME	TRIC DATA Eff: 6	5.64 lm/W
MODEL	ODEL 489883-2700K		Imax(cd)	0.1076	S/MH(C0/180)	0.00
NOMINAL I	POWER(W)	0.8	LOR(%)	2.5	S/MH(C90/270)	0.00
RATED VOI	LTAGE(V)	12	TOTAL FLUX(lm)	0.1487	η UP,DN(C0-180)	0.0,0.0
NOMINAL I	FLUX(lm)	6	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,2.4
LAMPS INS	SIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLT	TAGE(V)	12	η down(%)	2.5	CIBSE SHR MAX	1.00





C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature: 20DEG Operators: Y Test Date: 2023-11-30  $\gamma$  Range: 0 - 90DEG  $\gamma$  Interval: 0.5DEG

Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291

Humidity:65.0%

Test Distance:8.750m [K=1.0000]



### ZONAL FLUX DIAGRAM

#### ZONAL FLUX DIAGRAM:

٧	C0	C45	C90	C135	C180	C225	C270	C315	· ·	Φ zone	Φ total	%lum,lamp
5	0	0	0	0	0	0.0019	0.0025	0.0018	0- 5	0.0000	0.0000	0.01,0.00
10	0.0004	0.0001	0	0	0	0.0046	0.0051	0.0036	5- 10	0.0001	0.0001	0.07,0.00
15	0.0015	0.0002	0	0	0	0.0095	0.0076	0.0079	10- 15	0.0003	0.0004	0.29,0.01
20	0.0026	0.0000	0	0	0.0001	0.0168	0.0277	0.0140	15- 20	0.0010	0.0014	0.94,0.02
25	0.0048	0	0	0	0.0023	0.0356	0.0478	0.0320	20- 25	0.0026	0.0040	2.68,0.07
30	0.0077	0	0	0	0.0051	0.0548	0.0678	0.0526	25- 30	0.0051	0.0091	6.11,0.15
35	0.0107	0	0	0	0.0071	0.0720	0.0811	0.0713	30- 35	0.0081	0.0172	11.6,0.29
40	0.0131	0	0	0	0.0090	0.0843	0.0944	0.0847	35- 40	0.0110	0.0282	19,0.47
45	0.0150	0	0	0	0.0102	0.0814	0.1076	0.0848	40- 45	0.0134	0.0415	27.9,0.69
50	0.0153	0	0	0	0.0111	0.0774	0.1022	0.0828	45- 50	0.0149	0.0565	38,0.94
55	0.0154	0	0	0	0.0119	0.0739	0.0969	0.0804	50- 55	0.0154	0.0719	48.4,1.2
60	0.0152	0	0	0	0.0124	0.0702	0.0915	0.0744	55- 60	0.0156	0.0875	58.9,1.46
65	0.0142	0	0	0	0.0118	0.0677	0.0861	0.0691	60- 65	0.0156	0.1031	69.4,1.72
70	0.0138	0	0	0	0.0108	0.0653	0.0806	0.0652	65- 70	0.0155	0.1186	79.7,1.98
75	0.0125	0	0	0	0.0078	0.0622	0.0752	0.0616	70- 75	0.0152	0.1337	89.9,2.23
80	0.0068	0	0	0	0.0034	0.0481	0	0.0465	75- 80	0.0115	0.1452	97.7,2.42
85	0.0025	0	0	0	0.0008	0	0	0	80- 85	0.0032	0.1484	99.8,2.47
90	0.0008	0	0	0	0	0	0	0	85- 90	0.0003	0.1487	100,2.48
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			1
165						1			160-165			1
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNI	r:lm	

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature: 20DEG Operators:Y

Test Date: 2023-11-30

γ Range: 0 - 90DEG γ Interval: 0.5DEG Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291

Humidity:65.0%

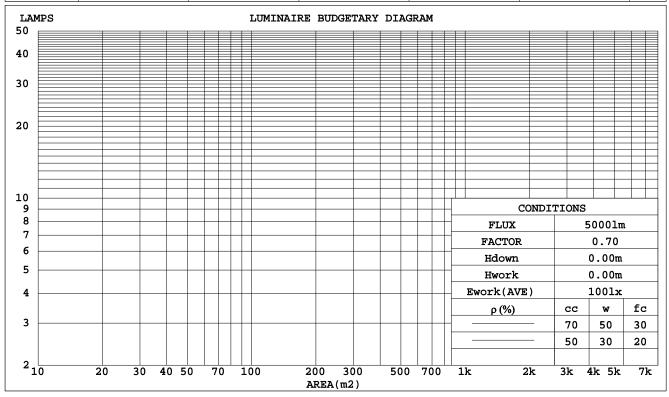
Test Distance:8.750m [K=1.0000]



#### CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:11.96V I:0.1362A P:0.8773W PF:0.5388 Lamp Flux:235x1 lm									
NAME: 489883-2700K TYPE:489883-2700K WEIGHT:									
SPEC.:	DIM.:	SERIAL No.:							
MFR.:	SUR.:	PROTECTION ANGLE:							

ραα		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:Rc	om Cav	ity Rat	io		Coe	fficien	ts of	Utiliza	tion(C	U)					
0.0	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.02
1.0	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02
2.0	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.01	.01
3.0	.02	.01	.01	.02	.01	.01	.02	.01	.01	.01	.01	.01	.01	.01	.01	.01
4.0	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
5.0	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
6.0	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
7.0	.01	.01	.01	.01	.01	.01	.01	.01	.00	.01	.01	.00	.01	.01	.00	.00
8.0	.01	.01	.00	.01	.01	.00	.01	.01	.00	.01	.01	.00	.01	.01	.00	.00
9.0	.01	.01	.00	.01	.01	.00	.01	.00	.00	.01	.00	.00	.01	.00	.00	.00
10.0	.01	.00	.00	.01	.00	.00	.01	.00	.00	.01	.00	.00	.01	.00	.00	.00



C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature:20DEG Operators:Y

Test Date: 2023-11-30

γ Range: 0 - 90DEG γ Interval: 0.5DEG

Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291

Humidity:65.0%

Test Distance:8.750m [K=1.0000]



# WEC AND CCEC

Test:U:11.96V I:0.1362A P:0.8773W PF:0.5388 Lamp Flux:235x1 lm									
NAME: 489883-2700K TYPE:489883-2700K WEIGHT:									
SPEC.:	DIM.:	SERIAL No.:							
MFR.:	SUR.:	PROTECTION ANGLE:							

ραα		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:F	Room C	avity	Ratio				Wall	Exitar	nce Co	effci	ents(W	IEC)			
0.0																
1.0	.010	.006	.002	.010	.006	.002	.010	.006	.002	.009	.005	.002	.009	.005	.002	
2.0	.009	.005	.002	.009	.005	.002	.009	.005	.002	.009	.005	.002	.008	.005	.001	
3.0	.009	.005	.001	.008	.004	.001	.008	.004	.001	.008	.004	.001	.008	.004	.001	
4.0	.008	.004	.001	.008	.004	.001	.007	.004	.001	.007	.004	.001	.007	.004	.001	
5.0	.007	.004	.001	.007	.004	.001	.007	.003	.001	.006	.003	.001	.006	.003	.001	
6.0	.006	.003	.001	.006	.003	.001	.006	.003	.001	.006	.003	.001	.006	.003	.001	
7.0	.006	.003	.001	.006	.003	.001	.006	.003	.001	.005	.003	.001	.005	.003	.001	
8.0	.005	.003	.001	.005	.003	.001	.005	.003	.001	.005	.003	.001	.005	.002	.001	
9.0	.005	.002	.001	.005	.002	.001	.005	.002	.001	.005	.002	.001	.005	.002	.001	
10.0	.005	.002	.001	.005	.002	.001	.004	.002	.001	.004	.002	.001	.004	.002	.001	

ραα		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:R	oom C	avity	Ratio		C	Ceilin	g Cav	ty Ex	itance	e Coef	ficie	nts(CC	CEC)		
0.0	.005	.005	.005	.004	.004	.004	.003	.003	.003	.002	.002	.002	.001	.001	.001	
1.0	.005	.004	.003	.004	.003	.003	.003	.002	.002	.002	.001	.001	.001	.000	.000	
2.0	.005	.003	.002	.004	.003	.002	.003	.002	.001	.002	.001	.001	.000	.000	.000	
3.0	.004	.003	.002	.004	.002	.001	.003	.002	.001	.002	.001	.001	.000	.000	.000	
4.0	.004	.003	.001	.004	.002	.001	.003	.002	.001	.001	.001	.000	.000	.000	.000	
5.0	.004	.002	.001	.003	.002	.001	.002	.001	.001	.001	.001	.000	.000	.000	.000	
6.0	.004	.002	.001	.003	.002	.001	.002	.001	.001	.001	.001	.000	.000	.000	.000	
7.0	.004	.002	.001	.003	.002	.001	.002	.001	.000	.001	.001	.000	.000	.000	.000	
8.0	.004	.002	.001	.003	.002	.001	.002	.001	.000	.001	.001	.000	.000	.000	.000	
9.0	.003	.002	.001	.003	.001	.000	.002	.001	.000	.001	.001	.000	.000	.000	.000	
10.0	.003	.002	.000	.003	.001	.000	.002	.001	.000	.001	.001	.000	.000	.000	.000	

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature: 20DEG Operators:Y Test Date: 2023-11-30

γ Range: 0 - 90DEG γ Interval: 0.5DEG Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291

Humidity:65.0%

Test Distance:8.750m [K=1.0000]



# UGR(Unified Glare Rating) Table

Test:U:1	1.96V I	:0.1362A	P:0.8773W	PF:0.538	88 Lamp	Flux:235x1	l lm				
NAME: 48	9883-27	00K				TYPE: 48988	33-2700K		WEIGHT:		
SPEC.:						DIM.:			SERIAL No.:		
MFR.:						sur.:			PROTECTI	ON ANGLE:	
ceiling/c	avity	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 dimen	sions		View	ed crossv	vise			Vi	ewed endw:	ise	
ж = 2Н у	= 2H	-26.4	-24.5	-26.1	-24.3	-24.0	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
	3н	-22.5	-20.7	-22.2	-20.5	-20.2	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
	<b>4</b> H	-20.5	-18.8	-20.2	-18.6	-18.3	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
	6Н	-19.3	-17.7	-19.0	-17.4	-17.1	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
	8н	-19.1	-17.5	-18.7	-17.2	-16.9	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
	12H	-18.9	-17.4	-18.5	-17.1	-16.8	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4н	2н	-26.8	-25.1	-26.4	-24.8	-24.5	-52.9	-51.2	-52.6	-51.0	-50.7
	3н	-22.9	-21.4	-22.5	-21.1	-20.7	-53.2	-51.7	-52.8	-51.4	-51.0
	4H	-20.9	-19.5	-20.5	-19.2	-18.8	-53.3	-51.9	-52.9	-51.6	-51.2
	6н	-19.6	-18.4	-19.2	-18.1	-17.7	-53.4	-52.2	-53.0	-51.8	-51.4
	8н	-19.4	-18.2	-18.9	-17.9	-17.5	-53.4	-52.3	-53.0	-51.9	-51.5
	12H	-19.2	-18.2	-18.8	-17.8	-17.3	-53.5	-52.4	-53.0	-52.0	-51.6
8н	4H	-21.0	-19.9	-20.6	-19.5	-19.1	-52.0	-50.9	-51.6	-50.5	-50.1
	6н	-19.8	-18.8	-19.3	-18.4	-18.0	-52.1	-51.1	-51.6	-50.7	-50.3
	8н	-19.5	-18.6	-19.0	-18.2	-17.7	-52.1	-51.3	-51.7	-50.8	-50.4
	12H	-19.3	-18.6	-18.8	-18.1	-17.6	-52.2	-51.4	-51.7	-51.0	-50.5
12H	<b>4</b> H	-21.1	-20.0	-20.6	-19.6	-19.2	-52.1	-51.0	-51.6	-50.6	-50.2
	6н	-19.8	-18.9	-19.3	-18.5	-18.1	-52.1	-51.3	-51.7	-50.8	-50.4
					-18.3	-17.8	-52.2	-51.4	-51.7	-51.0	-50.5
Variations with the observer position at spacing						:	I				
S = 1.0H + 1.9 / - 2.2					.2			+	3.4 / - 1	.\$	
1.5H + 3.4 / - 6.9					.9			+	7.6 / - 1	.\$	
2.0H + 4.6 / -16.6					+ 9.7 / - 1.\$						

CIE Pub.117 Corrected 6.000 lm Total Lamp Luminous Flux.(8log(F/F0) = -17.8)

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature: 20DEG Operators:Y Test Date: 2023-11-30

Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291

Humidity:65.0%

Test Distance:8.750m [K=1.0000]

Remarks:



### UTILIZATION FACTORS TABLE

Test:U:11.96V I:0.1362A P:0.8773W PF:0.5388 Lamp Flux:235x1 lm									
NAME: 489883-2700K TYPE:489883-2700K WEIGHT:									
SPEC.:	DIM.:	SERIAL No.:							
MFR.:	SUR.:	PROTECTION ANGLE:							

				REFLEC	TANCE						
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	1	1	1	1	1	1	1	1	0	0	
0.80	1	1	1	1	1	1	1	1	1	0	
1.00	2	1	1	2	1	1	1	1	1	1	
1.25	2	1	1	2	1	1	2	1	1	1	
1.50	2	2	1	2	2	1	2	1	1	1	
2.00	2	2	2	2	2	2	2	2	2	1	
2.50	2	2	2	2	2	2	2	2	2	1	
3.00	2	2	2	2	2	2	2	2	2	2	
4.00	3	2	2	2	2	2	2	2	2	2	
5.00	3 2 2 3 2 2 2 2								2	2	
ROOM INDEX				UF(to	tal)	•				Direc	
According to D	IN EN 13032	2-2 2004			Susp	ended			SHRNOM =	1.25	

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature: 20DEG Operators:Y Test Date: 2023-11-30

γ Range: 0 - 90DEG γ Interval: 0.5DEG Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291

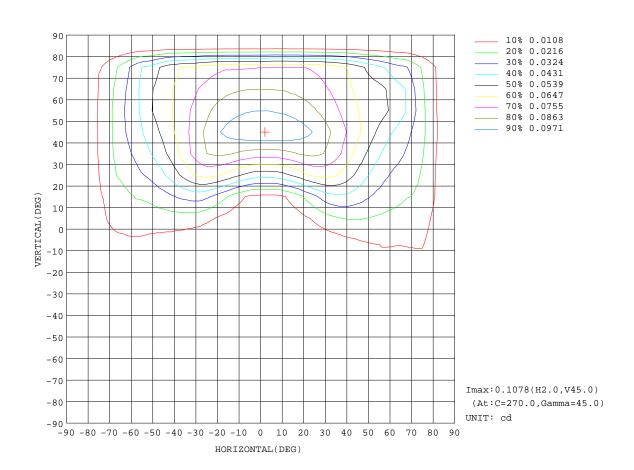
Humidity:65.0%

Test Distance:8.750m [K=1.0000]



#### ISOCANDELA DIAGRAM

Test:U:11.96V I:0.1362A P:0.8773W PF:0.5388 Lamp Flux:235x1 lm									
NAME: 489883-2700K TYPE:489883-2700K WEIGHT:									
SPEC.:	DIM.:	SERIAL No.:							
MFR.:	SUR.:	PROTECTION ANGLE:							



C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature:20DEG Operators:Y

Test Date: 2023-11-30

 $\gamma$  Range: 0 - 90DEG  $\gamma$  Interval: 0.5DEG

y Interval: 0.5DEG Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291

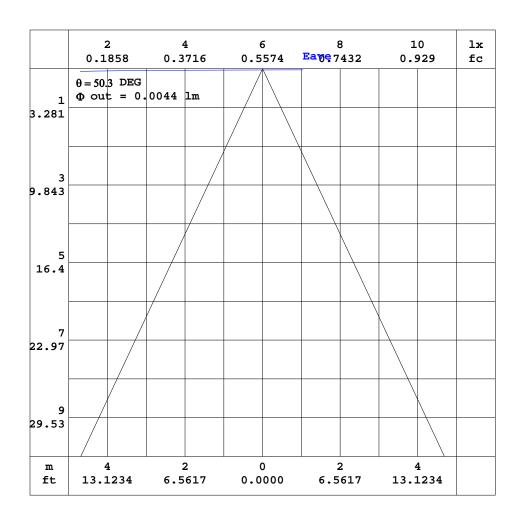
Humidity:65.0%

Test Distance:8.750m [K=1.0000]



### AAI CURVES

Test:U:11.96V I:0.1362A P:0.8773W PF:0.5388 Lamp Flux:235x1 lm											
NAME: 489883-2700K	TYPE:489883-2700K	WEIGHT:									
SPEC.:	DIM.:	SERIAL No.:									
MFR.:	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: 20DEG Operators:Y

Test Date: 2023-11-30

γ Range: 0 - 90DEG γ Interval: 0.5DEG Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291

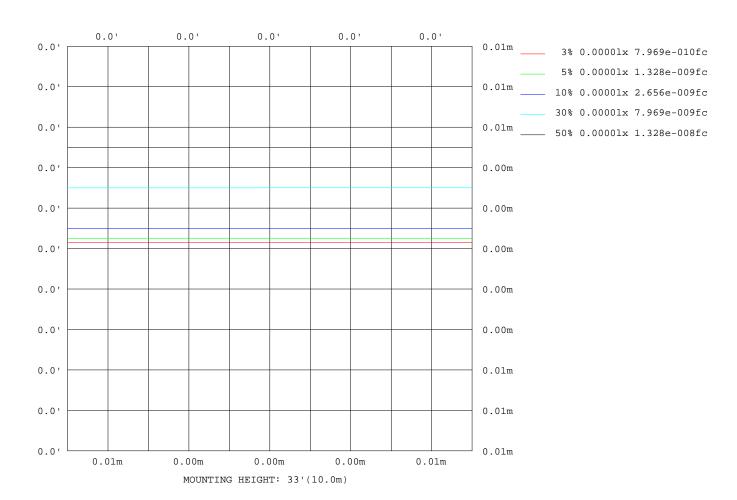
Humidity:65.0%

Test Distance:8.750m [K=1.0000]



### ISOLUX DIAGRAM

Test:U:11.96V I:0.1362A P:0.8773W PF:0.5388 Lamp Flux:235x1 lm											
NAME: 489883-2700K	TYPE:489883-2700K	WEIGHT:									
SPEC.:	DIM.:	SERIAL No.:									
MFR.:	SUR.:	PROTECTION ANGLE:									



C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature: 20DEG Operators: Y Test Date: 2023-11-30 γ Range: 0 - 90DEG
γ Interval: 0.5DEG

Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:8.750m [K=1.0000]
Remarks:



# LED Avg.L Report

Test:U:11.96V I:0.1362A P:0.8773W PF:0.5388 La	mp Flux:235x1 lm	
NAME: 489883-2700K	TYPE: 489883-2700K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

AvgL	cd/m2
L_0~180(65)av	0
L_0~180(75)av	0
L_0~180(85)av	0
L_90~270(65)av	1
L_90~270(75)av	1
L_90~270(85)av	0
L_45(65)av	0
L_45(75)av	1
L_45(85)av	0

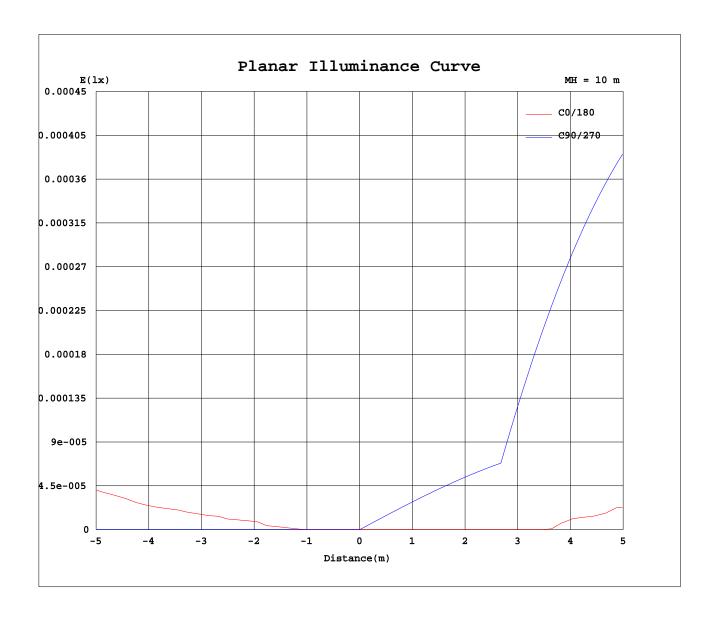
Standard: GB/T 29293-2012

Humidity:65.0%

Test Distance:8.750m [K=1.0000]



### Planar Illuminance Curve



C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature: 20DEG Operators:Y Test Date: 2023-11-30

γ Range: 0 - 90DEG γ Interval: 0.5DEG Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291

Humidity:65.0%

Test Distance:8.750m [K=1.0000]



Test:U:11.96V I:0.1362A P:0.8773W PF:0.5388 La	mp Flux:235x1 lm	
NAME: 489883-2700K	TYPE: 489883-2700K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table1																UNI	T: cd		
C(DEG)																			
γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature: 20DEG Operators:Y

Test Date:2023-11-30

γ Range: 0 - 90DEG γ Interval: 0.5DEG Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291

Humidity:65.0%

Test Distance:8.750m [K=1.0000]



Test:U:11.96V I:0.1362A P:0.8773W PF:0.5388 La	mp Flux:235x1 lm	
NAME: 489883-2700K	TYPE: 489883-2700K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table2																UNI	r: cd		
C(DEG)																			
γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature: 20DEG Operators:Y Test Date:2023-11-30

γ Range: 0 - 90DEG γ Interval: 0.5DEG Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291

Humidity:65.0%

Test Distance:8.750m [K=1.0000]



Test:U:11.96V I:0.1362A P:0.8773W PF:0.5388 La	mp Flux:235x1 lm	
NAME: 489883-2700K	TYPE: 489883-2700K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table3																UNI	T: cd		
C(DEG)																			
γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00
15	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
20	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03
25	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
30	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
35	0.02	0.03	0.03	0.04	0.05	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
40	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
45	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11
50	0.02	0.03	0.04	0.05	0.06	0.06	0.07	0.08	0.08	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
55	0.02	0.03	0.04	0.05	0.05	0.06	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10
60	0.02	0.03	0.04	0.04	0.05	0.06	0.06	0.07	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
65	0.02	0.03	0.04	0.04	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09
70	0.02	0.03	0.03	0.04	0.05	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
75	0.02	0.02	0.03	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08
80	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.05	0.04	0.03	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
85	0.01	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature: 20DEG Operators:Y

Test Date:2023-11-30

γ Range: 0 - 90DEG γ Interval: 0.5DEG Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291

Humidity:65.0%

Test Distance:8.750m [K=1.0000]



Test:U:11.96V I:0.1362A P:0.8773W PF:0.5388 La	mp Flux:235x1 lm	
NAME: 489883-2700K	TYPE:489883-2700K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table4																UNI	T: cd	
C(DEG)																		
γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355			1
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			1
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
15	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00			
20	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
25	0.05	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.01			
30	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.01			
35	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.06	0.06	0.05	0.04	0.04	0.03	0.02	0.02			
40	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.07	0.06	0.05	0.04	0.04	0.03	0.02			
45	0.10	0.10	0.10	0.09	0.09	0.09	0.08	0.08	0.07	0.06	0.05	0.05	0.04	0.03	0.02			
50	0.10	0.10	0.10	0.10	0.09	0.09	0.08	0.08	0.07	0.06	0.05	0.04	0.04	0.03	0.02			
55	0.10	0.09	0.09	0.09	0.09	0.08	0.08	0.07	0.07	0.06	0.05	0.04	0.03	0.03	0.02			
60	0.09	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.07	0.06	0.05	0.04	0.03	0.03	0.02			
65	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.05	0.04	0.03	0.03	0.02			
70	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.04	0.03	0.03	0.02			
75	0.08	0.08	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.04	0.03	0.02	0.02			
80	0.01	0.01	0.01	0.02	0.03	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.02	0.01			
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.01	0.01			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
																		-

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature: 20DEG Operators:Y Test Date:2023-11-30

γ Range: 0 - 90DEG γ Interval: 0.5DEG Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291

Humidity:65.0%

Test Distance:8.750m [K=1.0000]