

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	885.7 cd per klm.
(Luminaire orientation as tested.)	-14.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of I <sub>max</sub>	100.6V x 108.9H
	At 50% of I <sub>max</sub>	53.1V x 68.8H
	At 90% of I <sub>max</sub>	18.7V x 21.7H

Beam Flux	Total	1000.1 lumens per klm.
	To 10% of I <sub>max</sub>	879.9 lumens per klm.
	To 50% of I <sub>max</sub>	445.3 lumens per klm.
	To 90% of I <sub>max</sub>	73.1 lumens per klm.

Upward LOR	2.8 %
Downward LOR	97.3 %

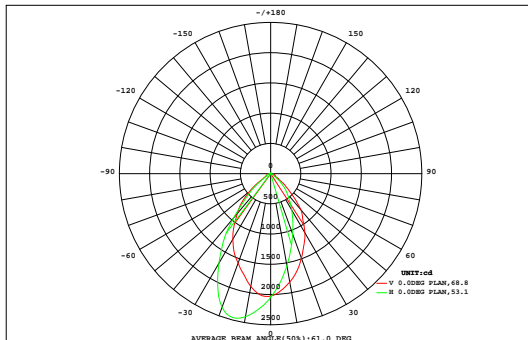
Luminaire Efficiency(Light Output Ratio)	100.0 %
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C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:1  
Test Date:2021-11-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:9.886m [K=1.0000]  
Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:87.800V I:0.1760A P:15.450W PF:1.0000 Freq:0Hz Lamp Flux:2777.74x1 lm		
NAME: A030 -日亜-R	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.02*0.9	Shielding Angle:



DATA OF LAMP		Eff:179.79lm/W	
MODEL	A030 -日亜-R	Imax(cd)	2460
NOMINAL POWER(W)	15.45	AVAILABILITY(%)	88.0
RATED VOLTAGE(V)	87.8	Avai. FLUX(lm)	2444
NOMINAL FLUX(lm)	2777.74	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2778
TEST VOLTAGE(V)	87.8	θ @50%(H,V)	69,53DEG

VERTICAL( DEG )	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.11	0.30	0.43	0.48	0.47	0.40	0.32	0.26	0.18	0.18	0.26	0.32	0.38	0.44	0.45	0.40	0.30	0.11	5.77	0.00
90	0.11	0.31	0.49	0.63	0.75	0.85	0.91	0.87	0.74	0.73	0.84	0.87	0.80	0.68	0.56	0.45	0.30	0.12	11.0	0.00
80	0.12	0.34	0.59	0.85	1.19	1.50	1.71	1.70	1.54	1.51	1.64	1.61	1.42	1.11	0.77	0.53	0.33	0.12	18.6	0.00
70	0.12	0.38	0.69	1.16	1.68	2.40	3.20	3.72	3.47	3.28	3.25	2.74	2.14	1.60	1.10	0.63	0.35	0.12	32.0	0.00
60	0.12	0.41	0.83	1.44	3.04	6.15	9.08	10.6	10.2	9.89	9.68	7.68	4.71	2.43	1.38	0.78	0.38	0.12	79.0	54.9
50	0.13	0.44	0.94	2.00	6.46	12.2	16.2	17.9	17.7	17.5	17.0	14.6	10.1	4.73	1.73	0.91	0.41	0.13	141	130
40	0.13	0.47	1.01	2.95	9.90	17.4	23.0	25.9	27.2	26.8	24.9	21.1	15.3	7.61	2.34	1.00	0.43	0.13	208	199
30	0.13	0.50	1.07	3.90	12.5	21.8	30.2	35.6	39.5	38.5	33.5	27.2	19.3	9.98	2.98	1.07	0.46	0.13	278	271
20	0.13	0.51	1.10	4.43	14.1	25.2	36.5	46.0	53.8	51.8	43.6	33.3	22.5	11.3	3.38	1.10	0.48	0.13	349	342
10	0.13	0.52	1.09	4.38	14.3	26.4	40.6	54.0	65.6	64.4	52.8	37.4	23.7	11.6	3.36	1.10	0.48	0.13	402	395
0	0.13	0.50	1.06	3.73	12.9	24.5	39.5	57.2	71.3	69.1	54.0	36.1	22.0	10.4	2.92	1.08	0.47	0.13	407	400
-10	0.13	0.48	1.01	2.67	10.1	20.1	32.8	48.4	59.8	57.9	44.4	29.8	18.1	7.76	2.27	1.03	0.46	0.13	337	329
-20	0.13	0.46	0.95	1.82	6.02	14.1	22.7	32.1	39.2	38.1	29.5	20.4	11.8	4.57	1.77	0.97	0.43	0.13	225	214
-30	0.12	0.42	0.88	1.41	2.77	6.82	12.5	16.7	18.8	18.3	15.4	10.7	5.42	2.56	1.47	0.88	0.41	0.13	116	98.7
-40	0.12	0.39	0.76	1.23	1.83	2.73	4.17	5.52	5.97	5.72	4.96	3.80	2.68	1.86	1.30	0.74	0.38	0.12	44.3	9.97
-50	0.12	0.35	0.62	1.00	1.45	1.96	2.42	2.49	2.34	2.32	2.42	2.29	1.88	1.44	0.99	0.62	0.36	0.12	25.2	0.00
-60	0.12	0.33	0.52	0.71	0.94	1.19	1.34	1.30	1.16	1.14	1.24	1.25	1.12	0.90	0.72	0.55	0.34	0.12	15.0	0.00
-70	0.11	0.31	0.46	0.54	0.52	0.45	0.39	0.32	0.21	0.20	0.31	0.37	0.46	0.55	0.58	0.50	0.33	0.12	6.74	0.00
-80	0.11	0.31	0.46	0.54	0.52	0.45	0.39	0.32	0.21	0.20	0.31	0.37	0.46	0.55	0.58	0.50	0.33	0.12	6.74	0.00
-90	0.11	0.31	0.46	0.54	0.52	0.45	0.39	0.32	0.21	0.20	0.31	0.37	0.46	0.55	0.58	0.50	0.33	0.12	6.74	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL( DEG ) 20 30 40 50 60 70 80 90																				
Φ t	2.22	7.42	14.5	35.3	101	186	278	360	419	407	340	252	164	81.6	30.1	14.3	7.10	2.25	2701	---
Φ a	0.00	0.00	0.00	10.6	83.5	170	262	346	405	394	325	235	146	61.2	4.02	0.00	0.00	0.00	---	2444

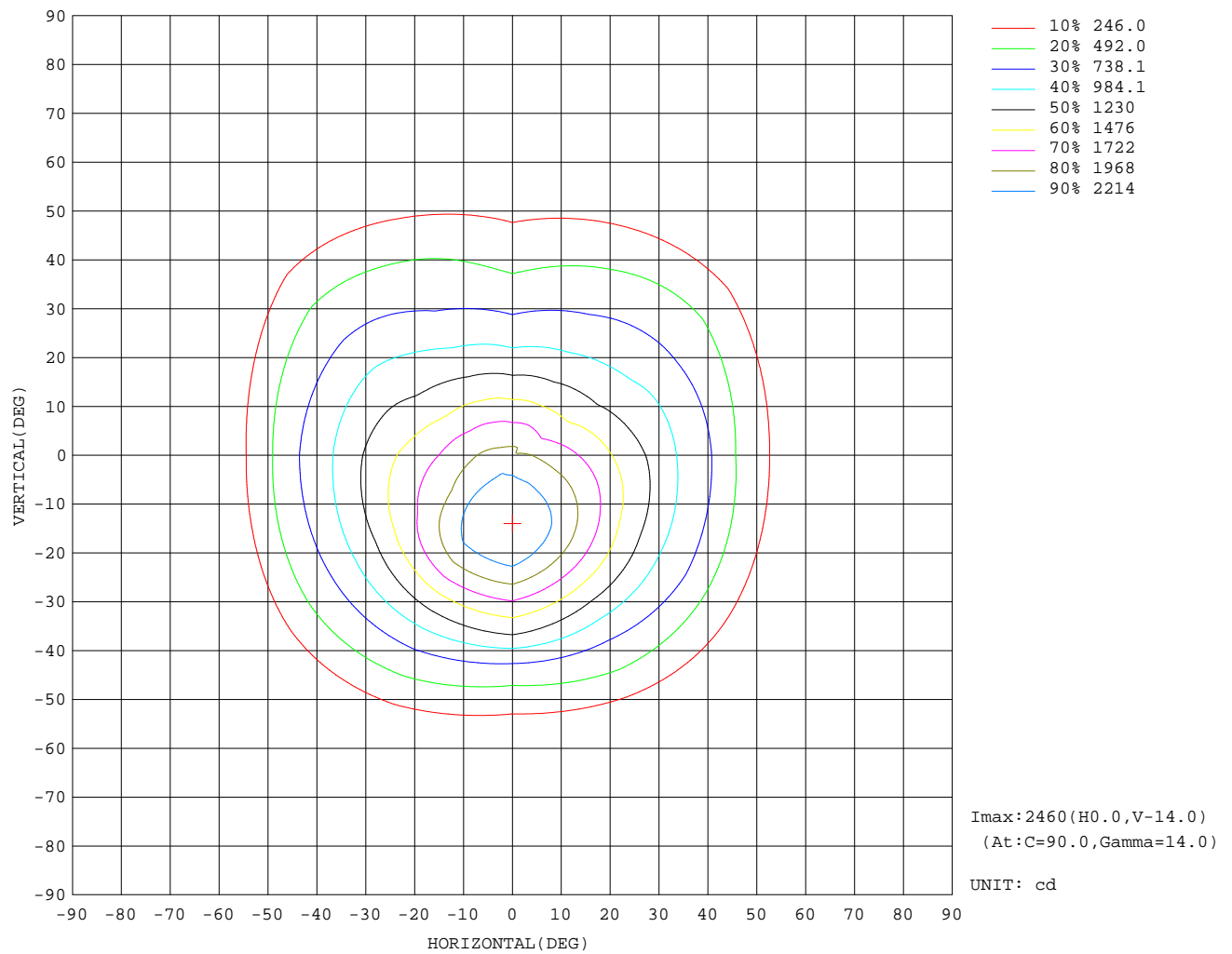
one-half-peak spread: U:22.9,D:30.6 , L:34.2,R:35.1

NEMA Beam Type: Type 6

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:1  
 Test Date:2021-11-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:9.886m [K=1.0000]  
 Remarks:

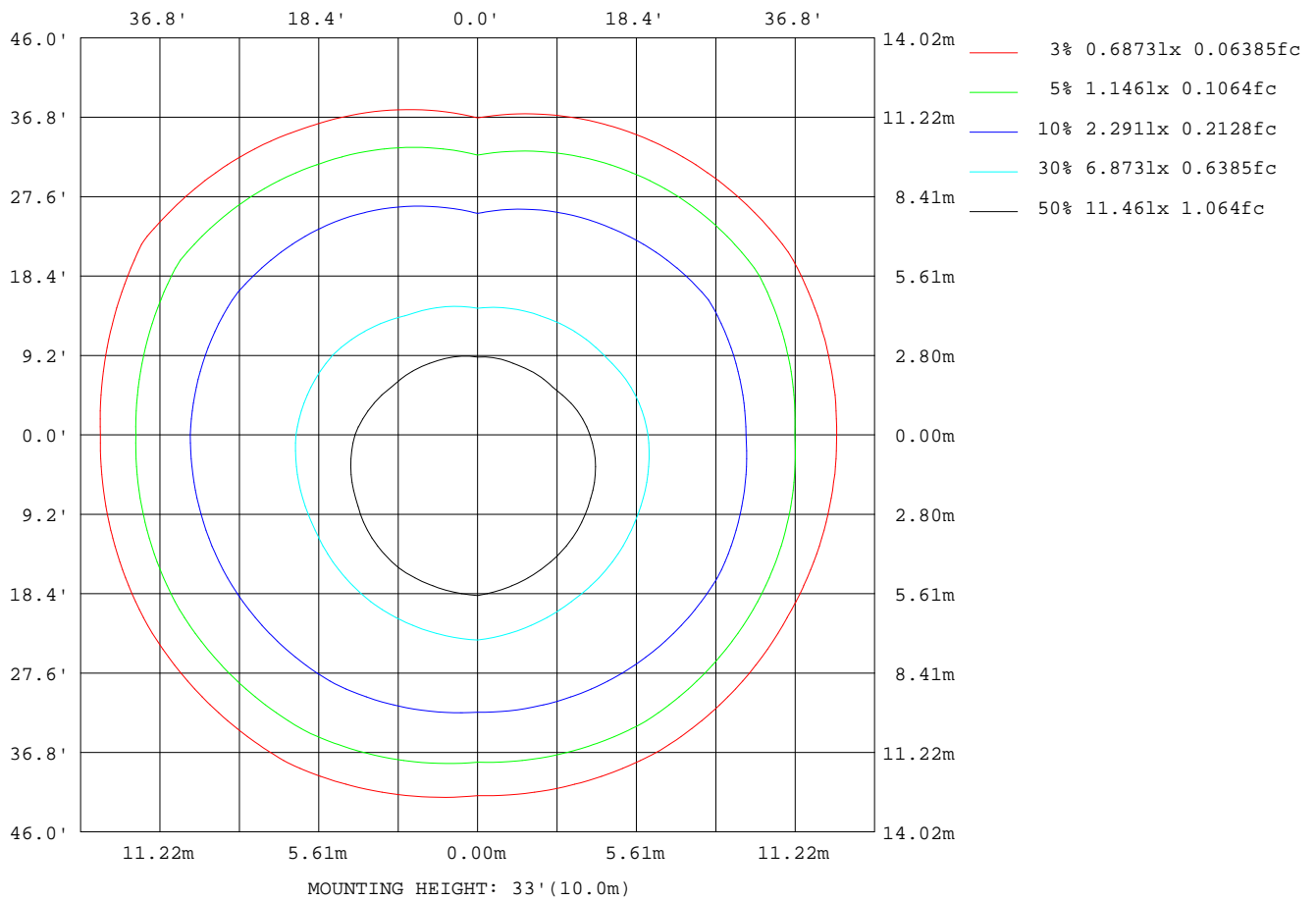
## ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: 1  
Test Date: 2021-11-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity: 65.0%  
Test Distance: 9.886m [K=1.0000]  
Remarks:

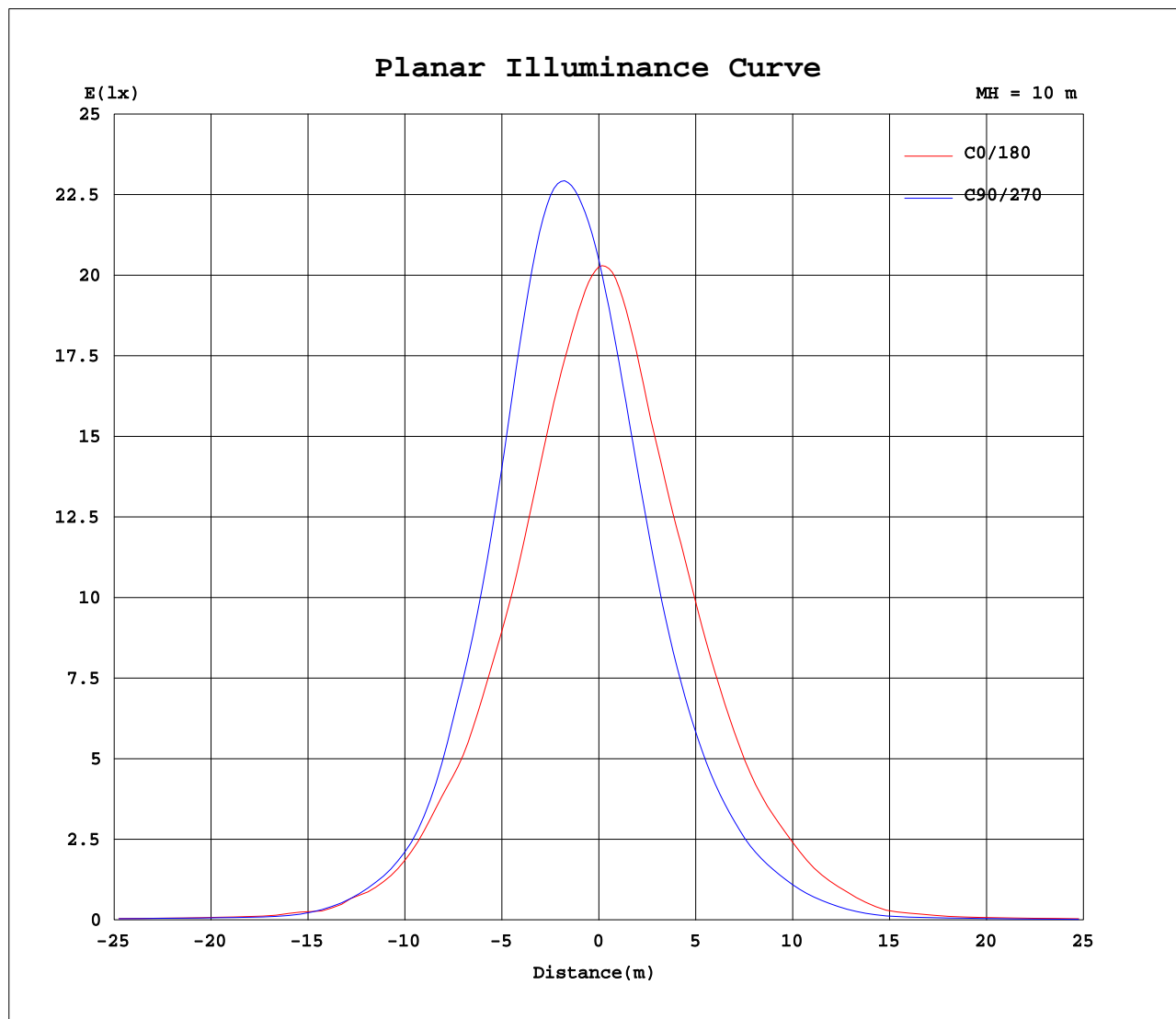
## ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: 1  
Test Date: 2021-11-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity: 65.0%  
Test Distance: 9.886m [K=1.0000]  
Remarks:

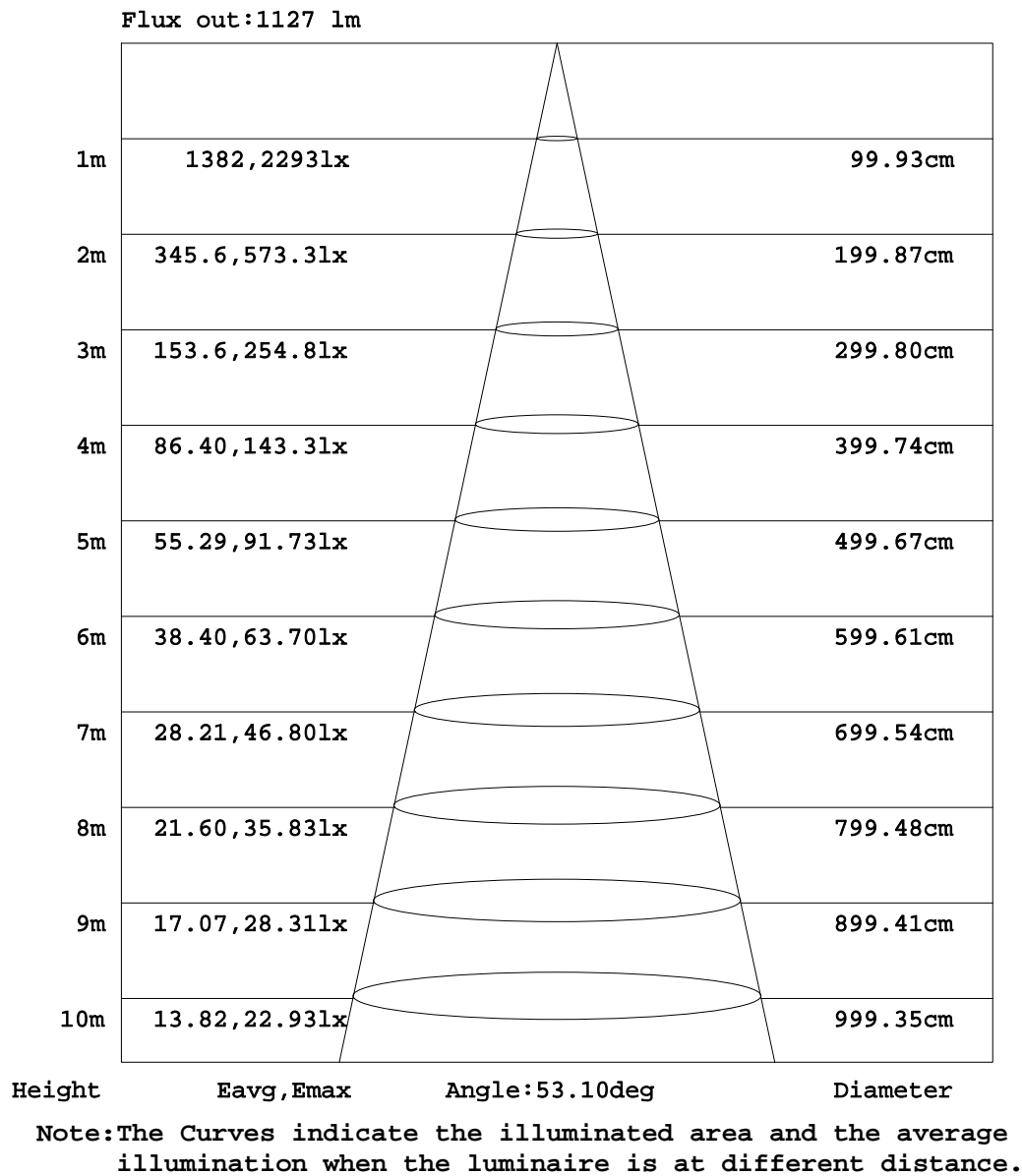
## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: 1  
Test Date: 2021-11-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity: 65.0%  
Test Distance: 9.886m [K=1.0000]  
Remarks:

## AAI Figure



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:1  
 Test Date:2021-11-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:9.886m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

H(DEC) V(DEC)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	45.1	44.1	46.4	50.1	53.3	29.2	5.01	5.22	5.48	6.14	7.16	8.36	9.73	11.2	12.6	13.7	14.6	15.2	15.5
-170	45.1	43.7	45.6	48.7	51.5	30.8	4.77	4.81	5.04	5.46	6.23	7.11	8.06	8.99	9.75	10.4	11.3	11.9	12.5
-160	45.1	43.3	44.6	47.1	49.4	37.9	4.66	4.37	4.44	4.61	5.10	5.63	6.16	6.93	7.71	8.42	9.00	9.54	9.81
-150	45.1	42.8	43.5	45.5	46.8	43.3	10.9	4.00	3.95	3.82	4.02	4.42	4.86	5.31	5.76	6.17	6.65	6.99	7.15
-140	45.1	42.3	42.7	43.6	43.9	46.1	27.5	5.47	3.51	3.41	3.28	3.40	3.61	3.83	4.05	4.35	4.60	4.77	4.84
-130	45.1	42.1	41.9	41.2	41.4	41.3	43.2	26.5	3.87	2.98	2.78	2.65	2.60	2.55	2.70	2.85	2.96	3.03	3.05
-120	45.1	42.2	40.7	39.9	38.9	38.2	36.9	35.8	33.2	23.2	7.37	2.41	1.88	1.72	1.69	1.71	1.72	1.72	1.69
-110	45.1	42.4	40.0	38.6	37.4	35.6	34.3	31.0	25.8	20.7	15.6	10.0	3.91	1.79	1.54	1.33	1.16	0.99	0.82
-100	45.1	42.7	40.4	38.1	36.1	34.3	32.5	29.0	25.1	21.0	17.0	13.0	8.71	6.94	5.19	3.73	2.50	1.41	0.40
-90	45.1	43.0	41.0	39.0	36.9	34.9	32.9	28.8	24.8	20.8	16.8	12.7	8.70	7.33	5.96	4.59	3.22	1.85	0.48
-80	45.1	44.0	42.4	40.5	38.8	37.5	37.0	34.9	32.4	30.2	29.6	30.2	31.9	31.3	29.0	25.9	22.3	18.1	13.6
-70	45.1	44.6	43.1	42.9	43.6	43.4	45.7	48.0	50.5	55.2	59.4	62.9	66.6	68.4	68.4	67.5	65.9	63.6	60.6
-60	45.1	45.0	44.7	46.5	49.4	52.2	59.3	67.0	70.9	75.4	83.2	92.3	101	104	100.0	95.2	90.1	83.9	76.7
-50	45.1	45.3	47.8	50.8	55.4	64.6	71.0	72.7	80.8	98.9	112	140	202	272	324	358	379	384	372
-40	45.1	45.6	49.3	54.7	63.0	72.5	75.4	86.1	110	172	292	420	540	635	727	804	873	926	947
-30	45.1	46.3	51.2	58.1	68.7	75.5	83.4	112	201	371	554	689	843	1014	1197	1380	1533	1647	1710
-20	45.1	47.0	53.1	60.8	73.7	77.6	94.2	157	339	545	723	903	1097	1333	1605	1879	2135	2268	2350
-10	45.1	47.6	54.7	62.6	76.3	79.8	107	201	431	644	832	1032	1255	1491	1698	1913	2166	2370	2401
0	45.1	48.0	55.5	63.2	77.7	80.5	114	218	455	681	858	1057	1252	1432	1574	1724	1894	2011	2026
10	45.1	47.5	54.4	61.6	76.2	80.1	110	211	431	628	788	951	1103	1220	1293	1378	1481	1546	1548
20	45.1	46.8	52.7	59.3	73.0	77.9	97.2	176	348	527	671	793	905	973	1016	1045	1072	1090	1064
30	45.1	46.0	50.6	56.8	65.9	75.7	85.3	124	233	383	523	601	665	708	725	728	739	730	700
40	45.1	45.3	48.6	53.7	57.9	71.1	75.8	89.2	127	208	293	368	429	467	492	498	485	460	423
50	45.1	44.9	46.8	49.4	53.1	57.0	68.7	73.0	80.2	94.0	112	139	171	198	219	228	226	214	191
60	45.1	44.5	43.8	44.9	47.3	49.8	50.6	56.8	64.1	66.6	69.6	73.2	76.0	76.6	74.9	72.4	68.5	63.1	56.5
70	45.1	44.0	42.1	41.4	41.3	40.6	42.3	43.3	43.2	43.8	45.3	47.0	48.2	47.6	45.9	43.5	40.6	37.1	33.2
80	45.1	43.4	41.1	38.8	36.8	35.1	33.7	31.6	29.3	27.0	24.7	22.5	20.5	19.1	17.8	16.2	14.5	12.5	10.3
90	45.1	42.5	39.8	37.2	34.6	32.0	29.4	25.7	22.1	18.5	14.9	11.3	7.66	6.52	5.38	4.24	3.11	1.97	0.83
100	45.1	42.1	39.2	36.3	33.6	31.1	28.7	25.3	21.7	18.0	14.2	10.4	6.56	5.33	4.38	3.47	2.58	1.71	0.84
110	45.1	41.9	38.8	36.8	34.8	32.1	29.8	26.5	22.4	18.1	13.9	9.44	4.73	3.03	2.79	2.59	2.42	2.26	2.08
120	45.1	41.7	39.6	38.1	36.2	34.3	31.6	29.4	26.7	18.7	7.28	3.89	3.55	3.55	3.74	3.94	4.11	4.25	4.33
130	45.1	41.6	40.8	39.4	38.7	37.1	36.5	21.7	5.06	4.40	4.41	4.63	4.99	5.40	5.93	6.38	6.77	7.08	7.28
140	45.1	41.9	41.8	41.9	41.2	41.3	26.2	6.50	4.73	5.00	5.38	5.93	6.77	7.62	8.47	9.12	9.64	10.0	10.2
150	45.1	42.4	42.8	44.1	44.3	40.9	11.6	4.84	5.15	5.47	6.27	7.29	8.43	9.60	10.7	11.7	12.3	12.7	12.8
160	45.1	43.0	44.0	46.1	47.4	38.0	5.14	5.04	5.41	6.00	7.05	8.29	9.64	11.0	12.3	13.4	14.3	14.6	14.7
170	45.1	43.6	45.3	48.2	50.4	31.0	5.01	5.19	5.58	6.26	7.38	8.68	10.1	11.6	13.0	14.1	15.0	15.5	15.5
180	45.1	44.1	46.4	50.1	53.3	29.2	5.01	5.22	5.48	6.14	7.16	8.36	9.73	11.2	12.6	13.7	14.6	15.2	15.5

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: 1  
 Test Date: 2021-11-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity: 65.0%  
 Test Distance: 9.886m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: cd

H(DEG) V(DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	15.2	14.6	13.7	12.5	11.1	9.64	8.21	7.18	6.17	5.35	5.27	5.12	10.4	54.8	50.2	45.3	45.6	47.1	
-170	12.6	12.4	11.8	10.9	9.86	8.65	7.49	6.58	5.73	5.11	4.96	4.90	12.4	52.1	48.8	44.7	45.3	47.1	
-160	9.93	9.74	9.38	8.79	8.00	7.13	6.36	5.74	5.07	4.77	4.65	4.74	20.7	50.3	47.0	44.0	45.1	47.1	
-150	7.26	7.18	6.92	6.56	6.09	5.65	5.20	4.72	4.46	4.38	4.36	5.75	35.8	48.0	45.0	43.3	45.0	47.1	
-140	4.94	4.93	4.82	4.62	4.42	4.18	4.00	3.87	3.95	4.00	4.41	18.4	47.2	45.2	43.0	42.7	44.9	47.1	
-130	3.13	3.15	3.11	3.01	2.95	3.02	3.13	3.26	3.44	4.13	17.0	44.8	43.3	41.9	41.3	42.5	44.8	47.1	
-120	1.80	1.89	1.95	1.99	2.07	2.31	2.71	5.00	16.9	34.7	39.1	39.4	39.2	39.4	40.4	42.6	44.9	47.1	
-110	1.05	1.28	1.53	1.81	2.13	4.49	10.9	16.9	22.5	27.6	32.5	35.7	36.7	38.5	40.7	42.9	45.0	47.1	
-100	1.39	2.45	3.61	4.95	6.51	8.20	12.8	17.3	21.7	26.2	30.9	35.5	37.6	39.5	41.4	43.2	45.1	47.1	
-90	1.94	3.41	4.87	6.33	7.79	9.26	13.9	18.5	23.2	27.8	32.4	37.0	38.7	40.4	42.1	43.8	45.4	47.1	
-80	17.6	21.2	24.2	26.4	27.6	27.6	27.0	28.5	31.0	33.9	36.9	39.7	40.1	40.7	42.2	44.1	45.8	47.1	
-70	62.6	63.8	64.2	63.9	62.7	61.1	59.4	57.3	51.9	48.8	47.9	45.0	44.4	45.3	44.9	44.3	46.0	47.1	
-60	84.3	90.9	96.0	99.9	102	96.3	90.3	83.0	77.8	74.0	68.8	57.3	51.4	47.9	47.5	46.5	46.0	47.1	
-50	370	350	315	266	213	167	128	117	93.0	85.5	78.6	74.2	63.5	53.1	49.1	49.1	46.1	47.1	
-40	900	823	737	655	572	456	327	221	131	116	86.9	80.3	73.2	60.1	52.2	49.7	46.5	47.1	
-30	1600	1447	1267	1085	906	764	623	433	272	159	110	85.6	78.5	65.8	54.6	50.4	47.4	47.1	
-20	2193	1984	1726	1458	1219	996	810	641	417	244	138	95.4	81.8	70.8	56.4	51.3	48.3	47.1	
-10	2282	2109	1882	1616	1357	1138	923	744	510	319	156	99.2	82.7	73.7	57.8	51.9	49.0	47.1	
0	1943	1820	1673	1490	1303	1135	928	774	524	328	148	95.6	82.5	74.5	57.9	52.3	49.4	47.1	
10	1500	1407	1298	1195	1097	990	843	695	495	318	160	97.5	81.9	72.5	56.5	51.3	48.7	47.1	
20	1066	1032	991	939	888	806	693	580	407	249	147	94.4	80.0	68.1	54.7	50.2	47.8	47.1	
30	724	726	710	686	643	593	531	414	279	176	105	83.2	75.0	59.8	52.4	48.9	46.6	47.1	
40	449	461	461	445	413	358	283	215	148	108	83.9	75.6	67.2	53.0	49.2	47.7	45.5	47.1	
50	204	207	200	182	157	134	108	97.8	85.0	78.0	71.1	65.1	51.4	48.4	45.6	46.6	45.0	47.1	
60	61.6	65.9	69.2	71.6	73.1	71.8	69.8	66.6	63.6	61.1	50.3	46.5	44.7	42.6	43.5	43.7	44.8	47.1	
70	36.4	39.2	41.6	43.8	45.4	45.3	43.3	41.7	40.7	39.1	37.9	36.6	37.2	39.2	40.4	41.4	44.7	47.1	
80	12.3	14.2	15.8	17.1	18.2	19.5	21.3	23.1	24.9	26.6	28.4	30.2	32.4	34.8	37.8	41.3	44.4	47.1	
90	2.00	3.17	4.33	5.50	6.67	7.84	11.2	14.6	17.9	21.3	24.7	28.0	31.2	34.4	37.6	40.8	43.9	47.1	
100	1.57	2.32	3.08	3.88	4.72	5.76	8.82	12.0	15.4	18.9	22.4	26.0	29.7	33.3	36.8	40.2	43.6	47.1	
110	2.25	2.40	2.55	2.72	2.96	4.29	7.60	10.8	14.2	17.6	21.0	23.1	27.7	32.3	36.2	40.0	43.5	47.1	
120	4.30	4.22	4.08	3.91	3.70	3.64	3.74	4.28	8.74	20.3	22.4	25.6	29.7	31.7	35.9	39.9	43.5	47.1	
130	7.17	6.95	6.63	6.22	5.72	5.22	4.93	4.62	4.54	4.75	10.0	30.4	32.2	34.7	36.2	40.0	43.6	47.1	
140	10.1	9.82	9.40	8.86	8.00	7.13	6.24	5.46	5.11	4.90	5.11	16.5	37.0	38.0	38.9	40.4	43.9	47.1	
150	12.7	12.3	11.8	10.9	9.83	8.71	7.64	6.56	5.64	5.13	4.99	6.18	32.0	42.0	41.3	41.3	44.2	47.1	
160	14.5	14.2	13.3	12.3	11.1	9.75	8.44	7.31	6.20	5.45	5.12	5.07	20.6	46.0	44.3	42.5	44.6	47.1	
170	15.3	14.4	13.5	12.6	11.5	10.1	8.68	7.48	6.38	5.53	5.20	5.08	12.5	50.0	47.4	43.9	45.0	47.1	
180	15.2	14.6	13.7	12.5	11.1	9.64	8.21	7.18	6.17	5.35	5.27	5.12	10.4	54.8	50.2	45.3	45.6	47.1	

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: 1  
 Test Date: 2021-11-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity: 65.0%  
 Test Distance: 9.886m [K=1.0000]  
 Remarks: