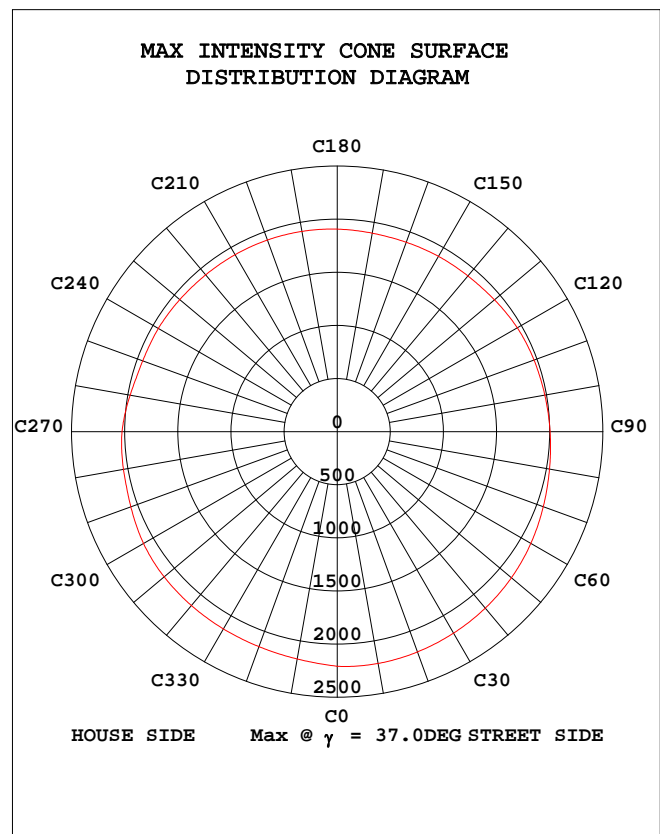
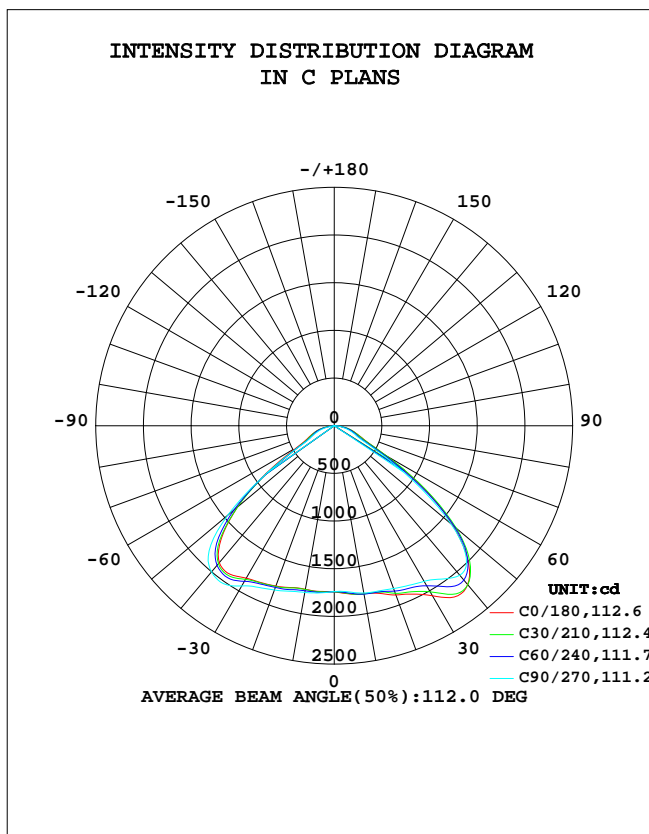


STREETLIGHT PHOTOMETRIC TEST REPORT

NAME: LED Tunnel Lights	TYPE:5S 3030	WEIGHT:2.3kg
SPEC.:	DIM.: 166*270*165mm	SERIAL No.:
MFR.: ZGSM	SUR.:250*70 mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 140.00 lm/W			
MODEL	ZGSM-SDD40H4	I <sub>max</sub> (cd)	2212	η street_up(%)	0.0
NOMINAL POWER(W)	40	LOR(%)	100.0	η street_down(%)	51.1
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	5600	η house_up(%)	0.0
NOMINAL FLUX(lm)	5600	MAXIMUM @(C,γ )	15,37.0	η house_down(%)	48.9
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.05000
TEST VOLTAGE(V)	220.1	η down(%)	100.0	SLI	19.837

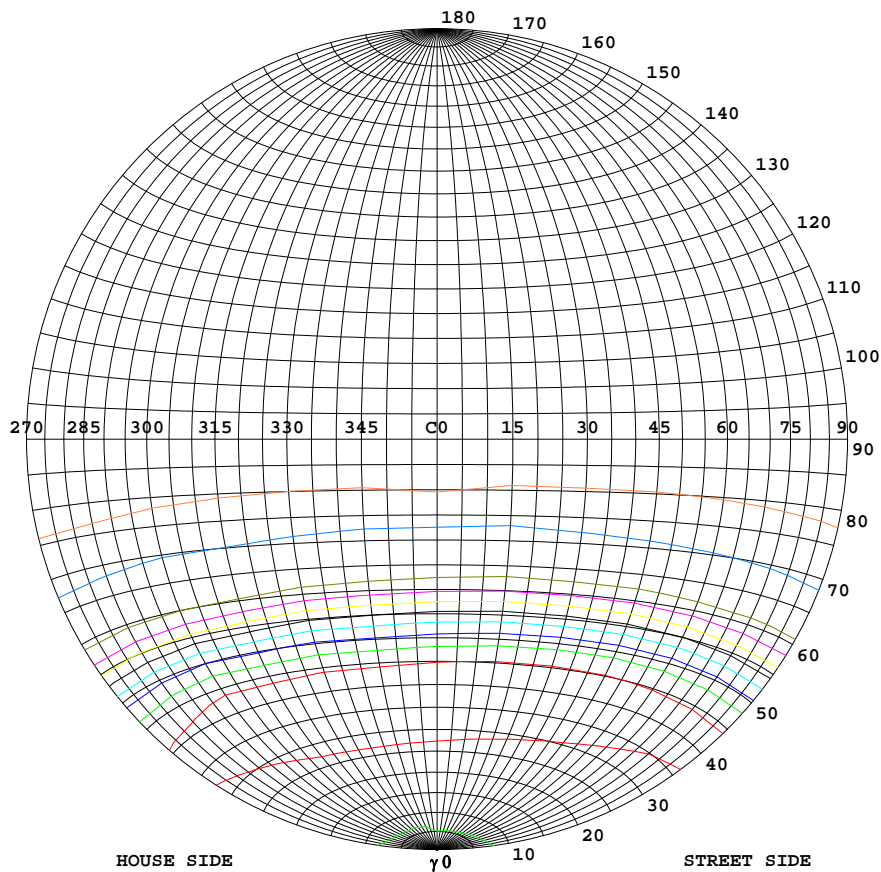


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.480m [K=1.0000]  
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

NAME: LED Tunnel Lights	TYPE:5S 3030	WEIGHT:2.3kg
SPEC.:	DIM.: 166*270*165mm	SERIAL No.:
MFR.: ZGSM	SUR.:250*70 mm	Shielding Angle:



Classification:

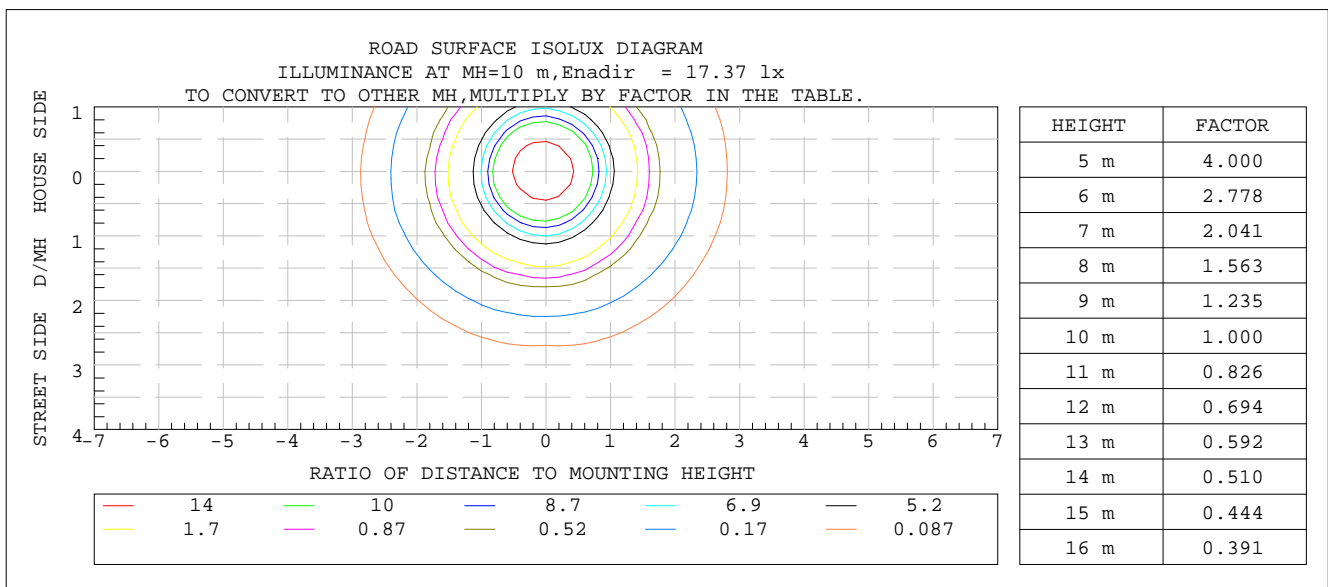
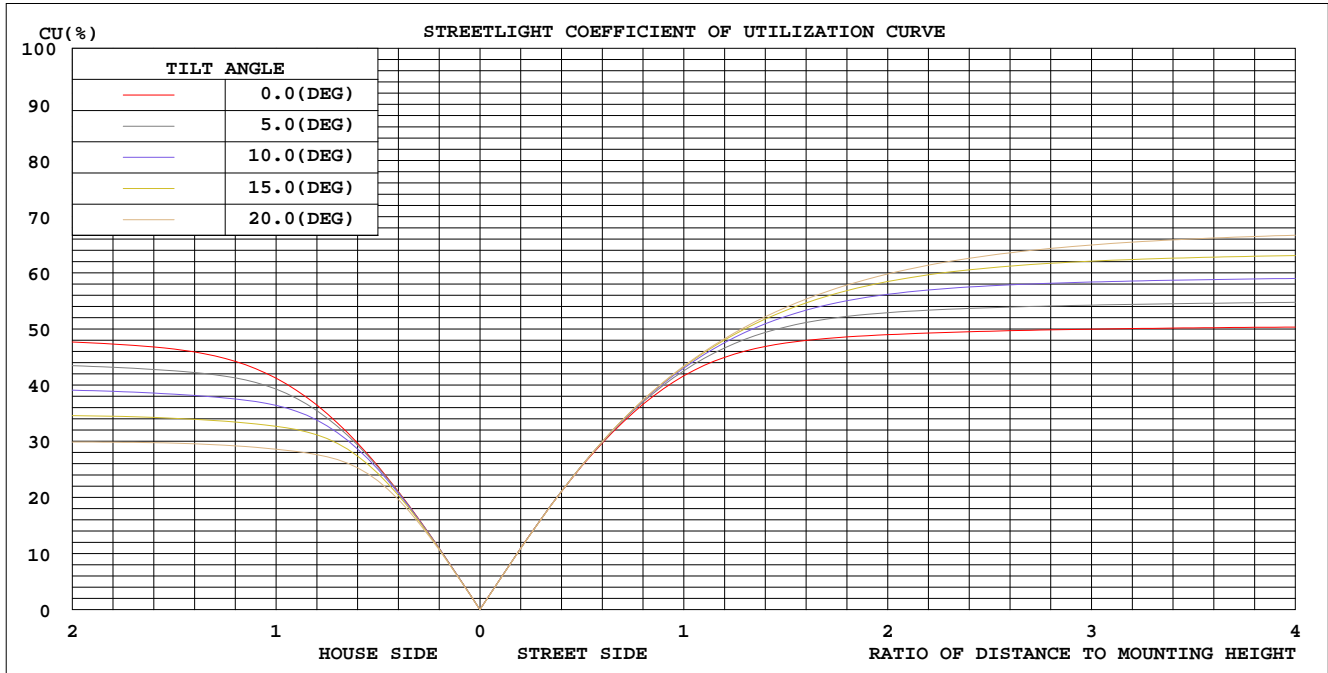
IES:Type V - Very Short  
 CIE:Narrow - Short  
 IES:Full cut-off  
 CIE:Full cut-off  
 Max.At80:22.60cd/klm  
 Max.At90:0cd/klm  
 Max.80-90:22.60cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	2212
90%	1991
80%	1770
70%	1549
60%	1327
50%	1106
40%	885
30%	664
20%	442
10%	221
5%	111

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.480m [K=1.0000]  
 Remarks:

# COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2018

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 10.480m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

NAME: LED Tunnel Lights	TYPE:5S 3030	WEIGHT:2.3kg
SPEC.:	DIM.: 166*270*165mm	SERIAL No.:
MFR.: ZGSM	SUR.:250*70 mm	Shielding Angle:

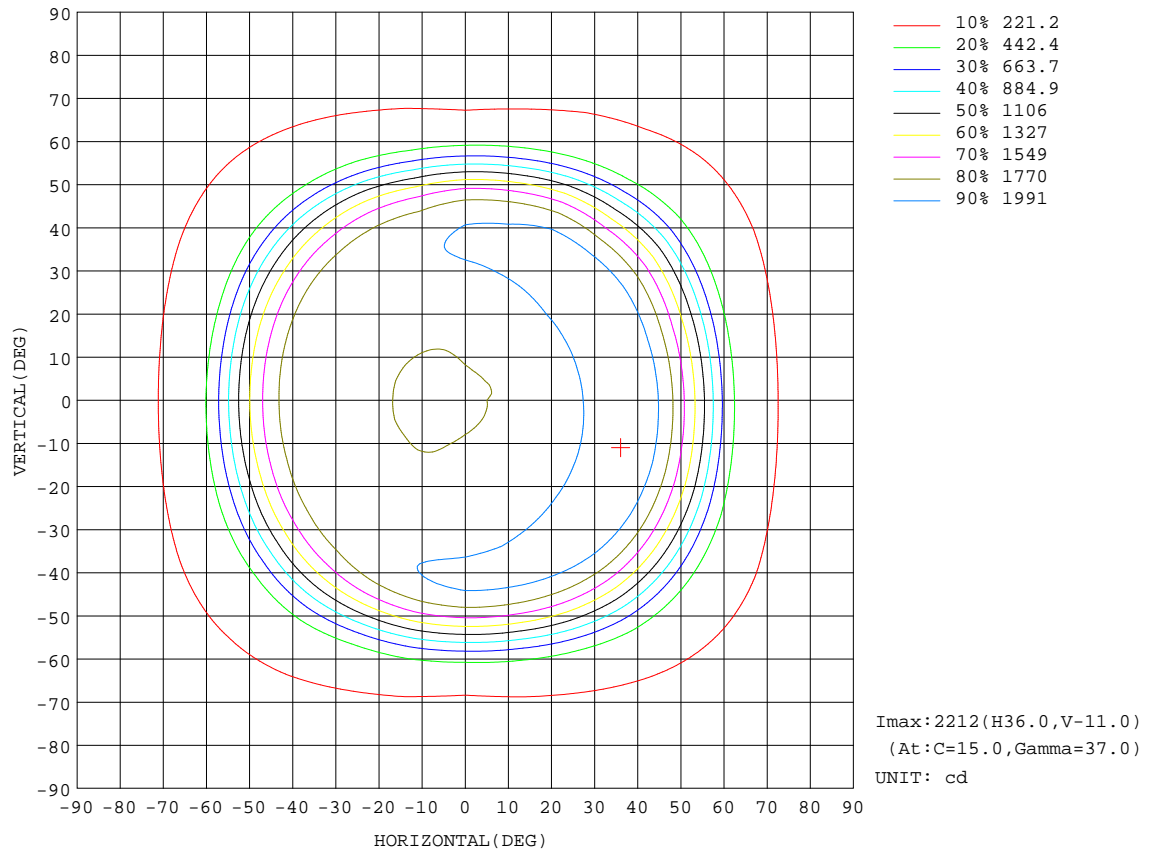
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum,lamp
10	1788	1793	1781	1752	1741	1750	1775	1784	0- 10	168.0	168.0	3,3
20	1888	1857	1817	1793	1789	1800	1833	1869	10- 20	509.3	677.3	12.1,12.1
30	2058	1980	1885	1851	1846	1877	1939	2057	20- 30	868.9	1546	27.6,27.6
40	2176	2149	2047	1907	1875	1893	2002	2099	30- 40	1259	2806	50.1,50.1
50	1617	1668	1595	1400	1324	1336	1456	1524	40- 50	1404	4209	75.2,75.2
60	623.8	620.8	500.2	462.3	450.1	386.2	376.5	465.4	50- 60	867.2	5076	90.7,90.6
70	253.9	237.0	200.2	226.9	235.7	221.5	186.7	222.2	60- 70	308.1	5384	96.2,96.2
80	102.2	116.4	85.60	102.2	89.98	90.32	15.99	98.50	70- 80	172.5	5557	99.2,99.2
90	0	0	0	0	0	0	0	0	80- 90	42.61	5600	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		

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2018

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.480m [K=1.0000]  
Remarks:

# ISOCANDELA DIAGRAM

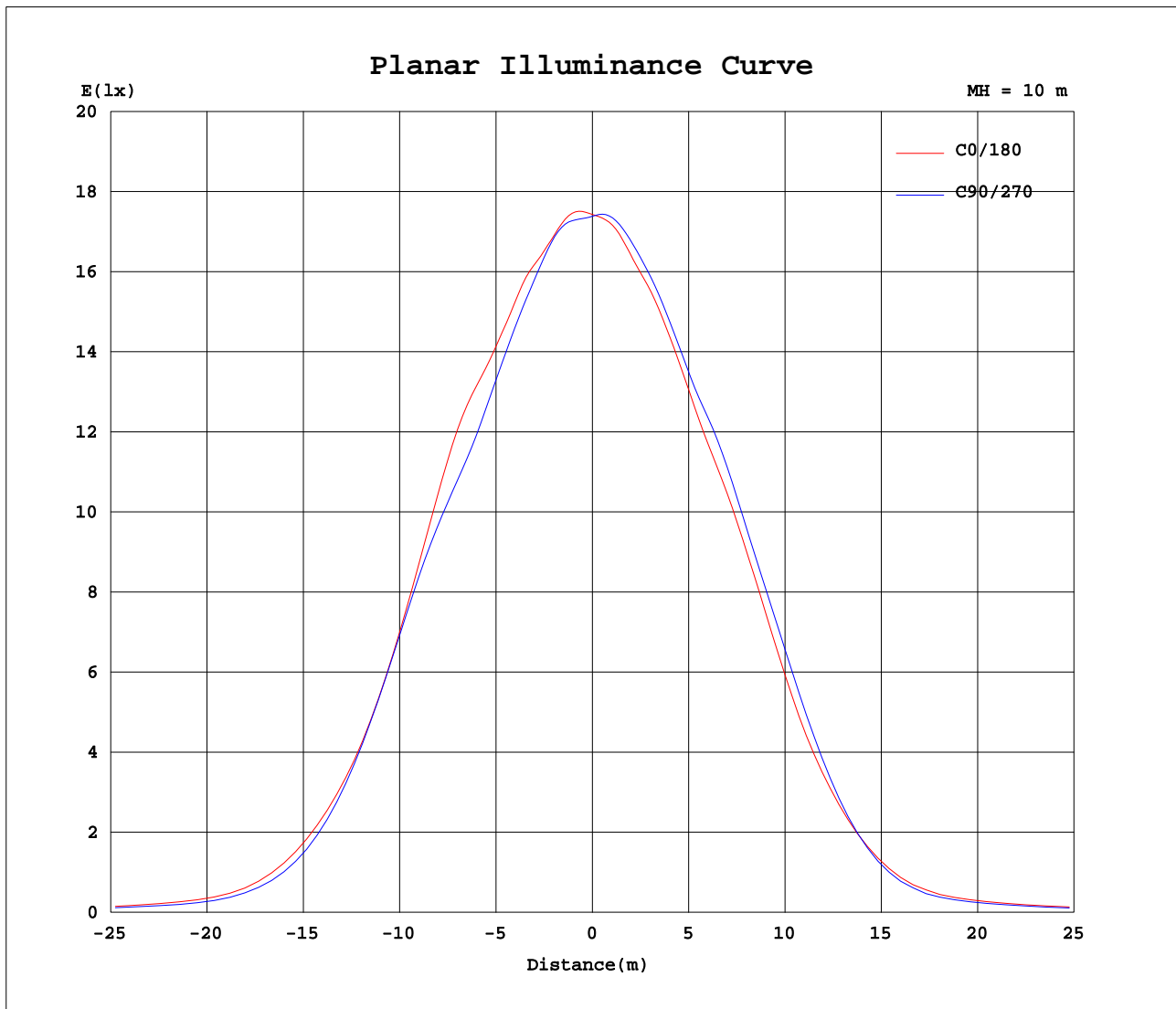
NAME: LED Tunnel Lights	TYPE:5S 3030	WEIGHT:2.3kg
SPEC.:	DIM.: 166*270*165mm	SERIAL No.:
MFR.: ZGSM	SUR.:250*70 mm	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2018

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.480m [K=1.0000]  
Remarks:

## Planar Illuminance Curve

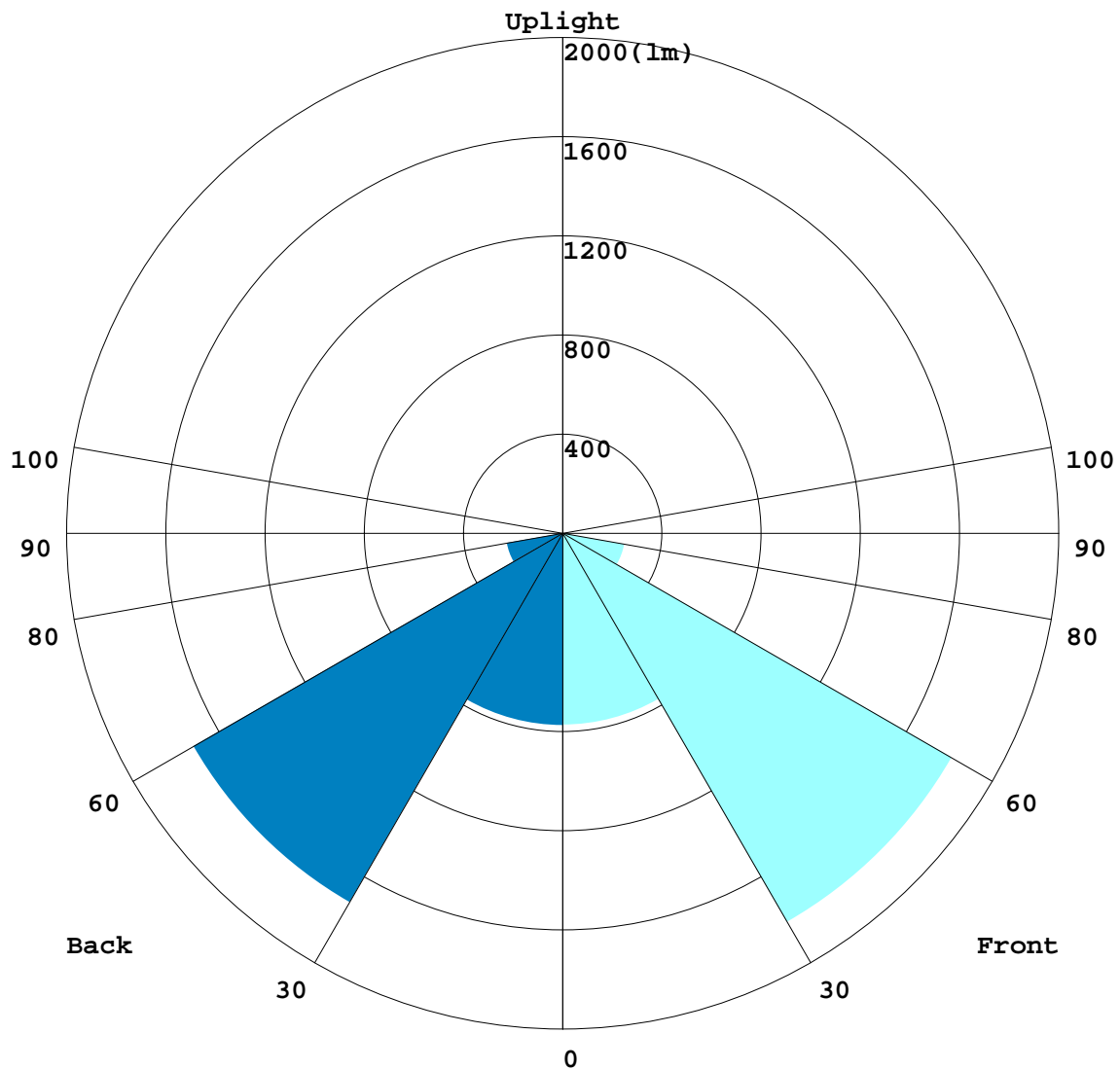


C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2018

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 10.480m [K=1.0000]  
Remarks:

**LCS REPORT**

NAME: LED Tunnel Lights	TYPE:5S 3030	WEIGHT:2.3kg
SPEC.:	DIM.: 166*270*165mm	SERIAL No.:
MFR.: ZGSM	SUR.:250*70 mm	Shielding Angle:

**LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH**


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.480m [K=1.0000]  
 Remarks:

### BUG REPORT

NAME: LED Tunnel Lights	TYPE:5S 3030	WEIGHT:2.3kg
SPEC.:	DIM.: 166*270*165mm	SERIAL No.:
MFR.: ZGSM	SUR.:250*70 mm	Shielding Angle:

#### IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	772.14	13.8
FM - Front-Medium(30-60)	1811.2	32.3
FH - Front-High(60-80)	252.14	4.5
FVH - Front-Very High(80-90)	25.272	0.5
Total Forward Light	2860.8	51.1

BL - Back-Low(0-30)	774.11	13.8
BM - Back-Medium(30-60)	1718.9	30.7
BH - Back-High(60-80)	228.52	4.1
BVH - Back-Very High(80-90)	17.337	0.3
Total Back Light	2738.9	48.9

UL - Uplight-Low(90-100)	0	0.0
UH - Uplight-High(100-180)	0	0.0
Total Up Light	0	0.0

BUG(Back,Up,Glare) Rating	B2-U0-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	2738.9	0	2738.9
Street Side	2860.8	0	2860.8

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2018

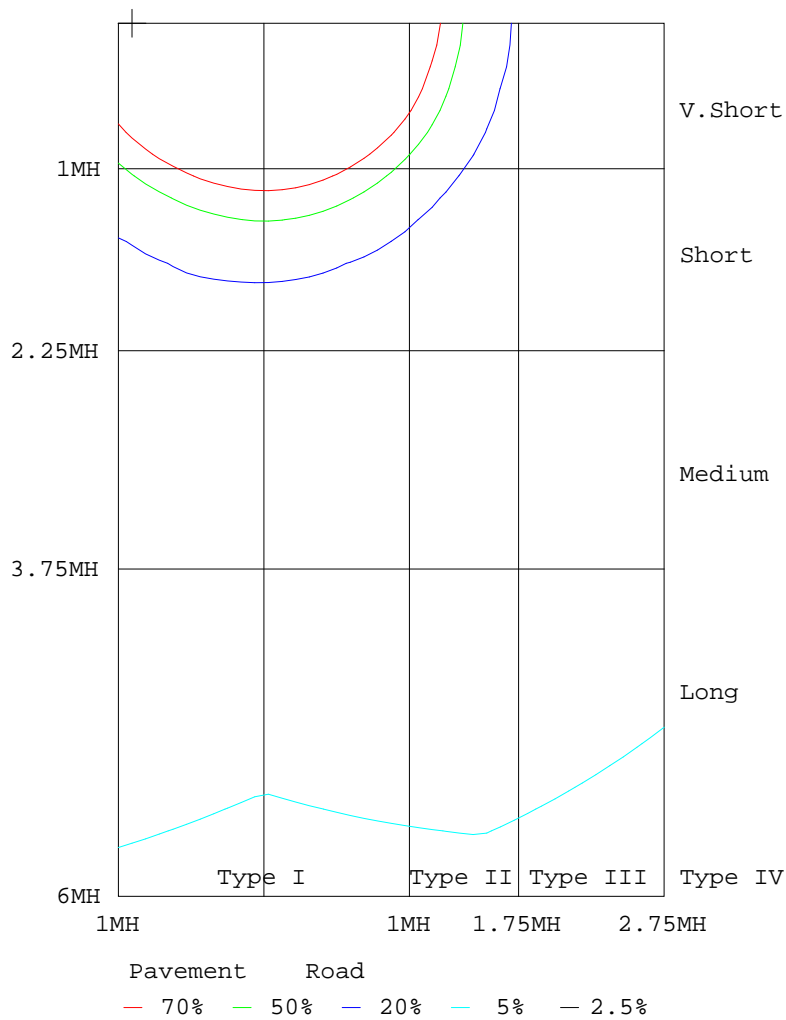
γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.480m [K=1.0000]  
Remarks:



ROAD ISOCANDELA REPORT

NAME: LED Tunnel Lights	TYPE:5S 3030	WEIGHT:2.3kg
SPEC.:	DIM.: 166*270*165mm	SERIAL No.:
MFR.: ZGSM	SUR.:250*70 mm	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.480m [K=1.0000]  
 Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

```

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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

```