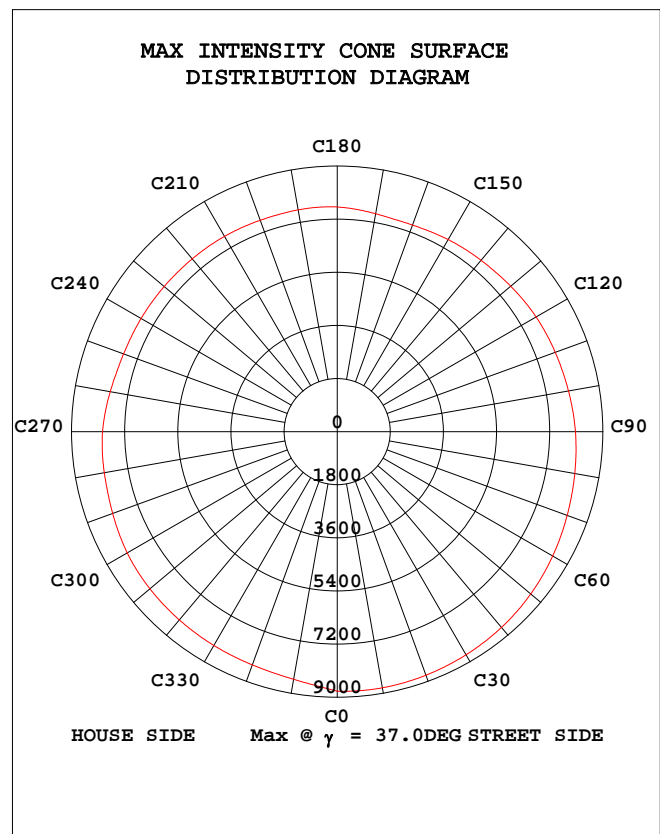
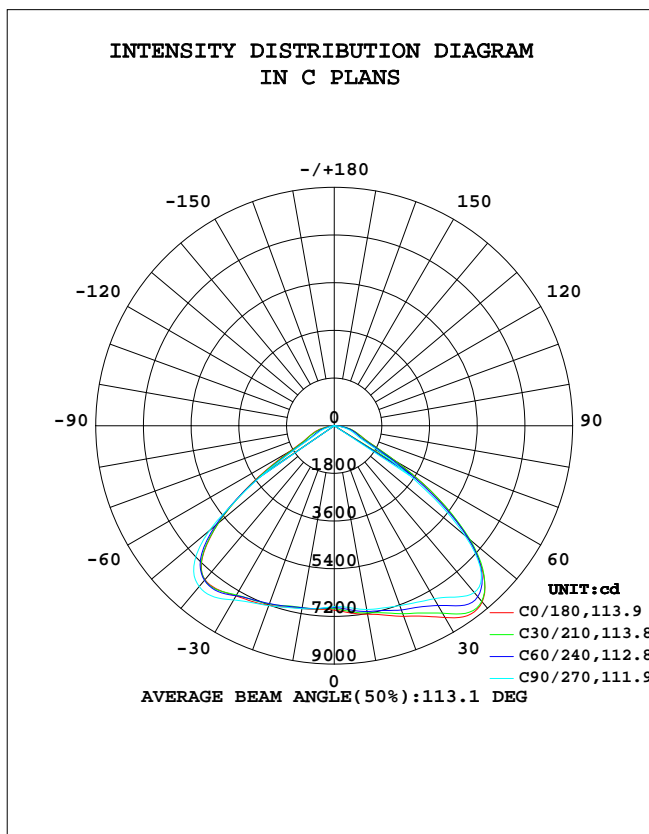


STREETLIGHT PHOTOMETRIC TEST REPORT

NAME: LED Tunnel Lights	TYPE:5S 3030	WEIGHT:5.2kg
SPEC.:	DIM.: 385*270*165mm	SERIAL No.:
MFR.: ZGSM	SUR.:250*296 mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 140.00 lm/W			
MODEL	ZGSM-SDD160H4	Imax(cd)	8802	$\eta$ street_up(%)	0.0
NOMINAL POWER(W)	160	LOR(%)	100.0	$\eta$ street_down(%)	51.3
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	22400	$\eta$ house_up(%)	0.0
NOMINAL FLUX(lm)	22400	MAXIMUM @(C, $\gamma$ )	15,37.0	$\eta$ house_down(%)	48.7
LAMPS INSIDE	1	$\eta$ up(%)	0.0	76 FLASHAREA(m2)	0.05000
TEST VOLTAGE(V)	220.1	$\eta$ down(%)	100.0	SLI	21.891

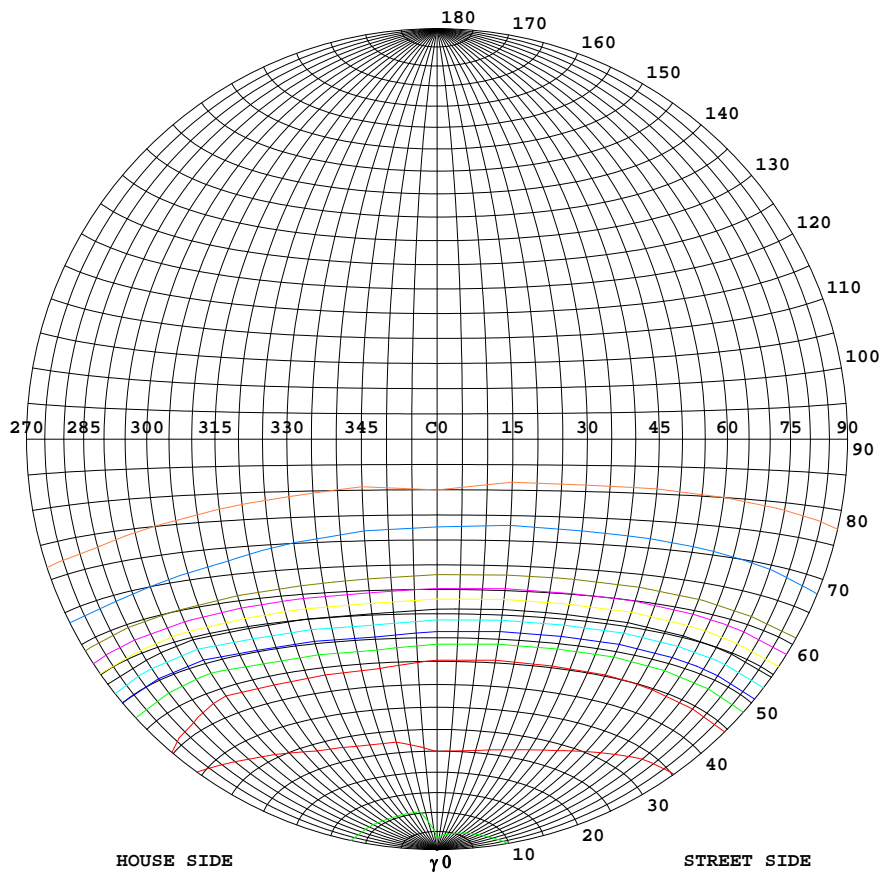


C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2018

$\gamma$  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:

STREETLIGHT ISOCANDELA DIAGRAM

NAME: LED Tunnel Lights	TYPE:5S 3030	WEIGHT:5.2kg
SPEC.:	DIM.: 385*270*165mm	SERIAL No.:
MFR.: ZGSM	SUR.:250*296 mm	Shielding Angle:



Classification:

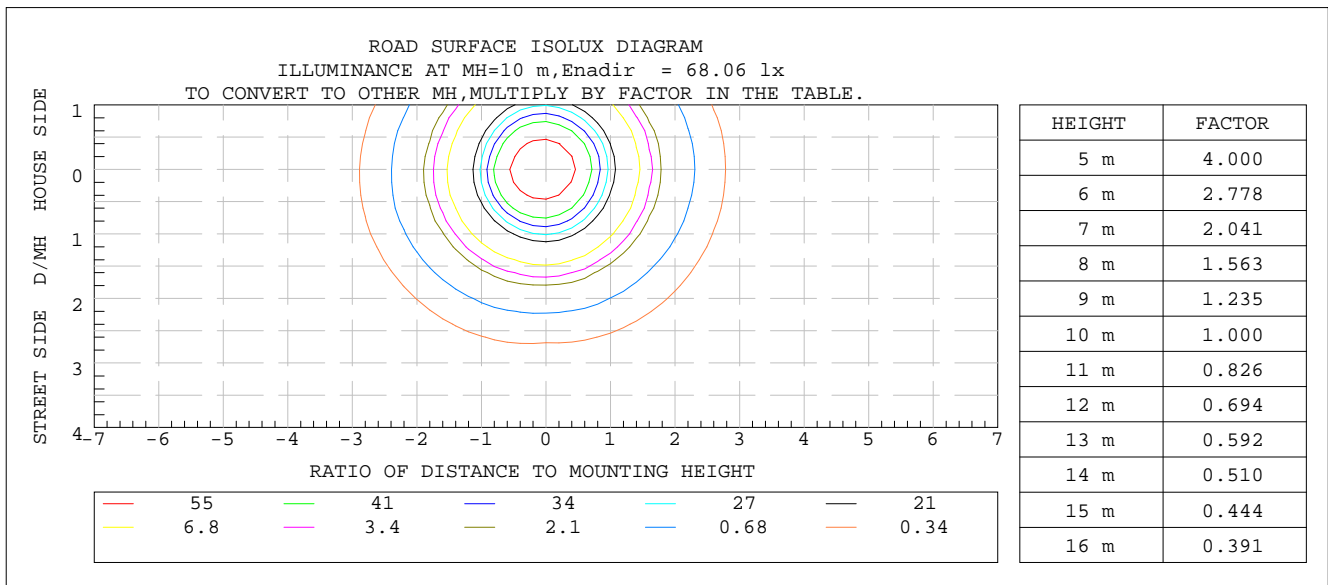
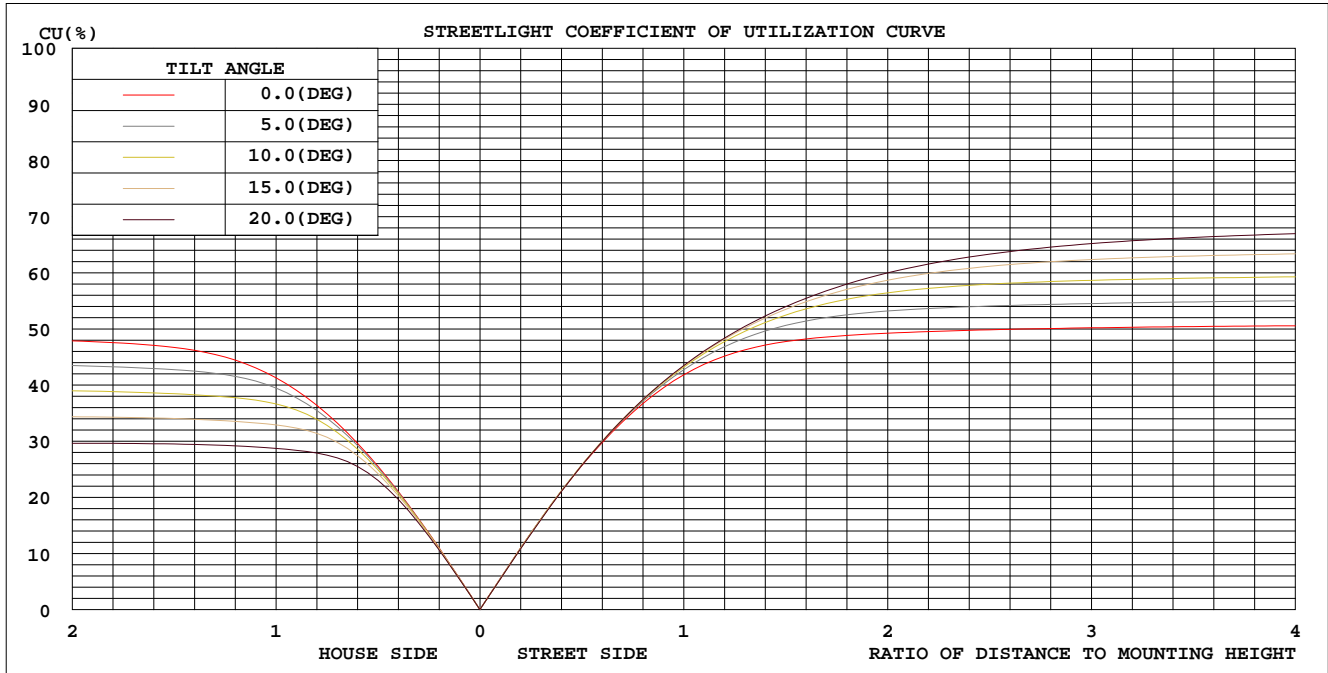
IES:Type V - Very Short  
 CIE:Narrow - Short  
 IES:Full cut-off  
 CIE:Full cut-off  
 Max.At80:24.12cd/klm  
 Max.At90:0cd/klm  
 Max.80-90:24.12cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	8802
90%	7922
80%	7041
70%	6161
60%	5281
50%	4401
40%	3521
30%	2641
20%	1760
10%	880
5%	440

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:

# 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:5.2kg
SPEC.:	DIM.: 385*270*165mm	SERIAL No.:
MFR.: ZGSM	SUR.:250*296 mm	Shielding Angle:

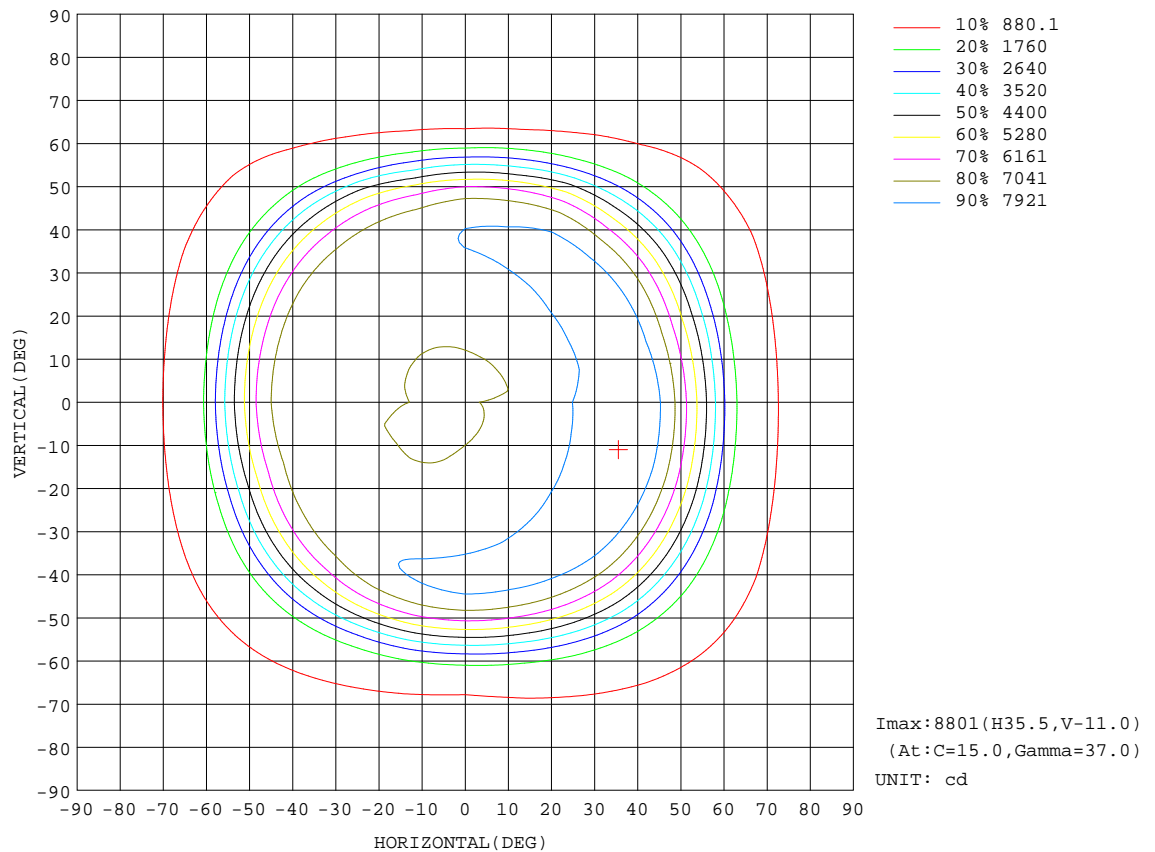
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum,lamp
10	7224	7149	7042	6898	7008	6970	7011	7031	0- 10	664.3	664.3	2.97,2.97
20	7657	7480	7225	7084	7212	7146	7227	7380	10- 20	2027	2692	12,12
30	8358	8031	7542	7354	7416	7401	7595	8038	20- 30	3461	6152	27.5,27.5
40	8684	8567	8221	7629	7592	7588	7930	8210	30- 40	4994	11146	49.8,49.8
50	6606	6690	6439	5749	5698	5737	6157	6265	40- 50	5677	16823	75.1,75.1
60	2710	2614	2035	1837	1930	1719	1436	2070	50- 60	3620	20443	91.3,91.3
70	1013	956.5	771.4	847.4	885.9	722.9	534.9	761.1	60- 70	1186	21629	96.6,96.6
80	437.8	498.0	323.5	369.3	311.4	222.7	66.90	285.3	70- 80	615.1	22244	99.3,99.3
90	0	0	0	0	0	0	0	0	80- 90	155.8	22400	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

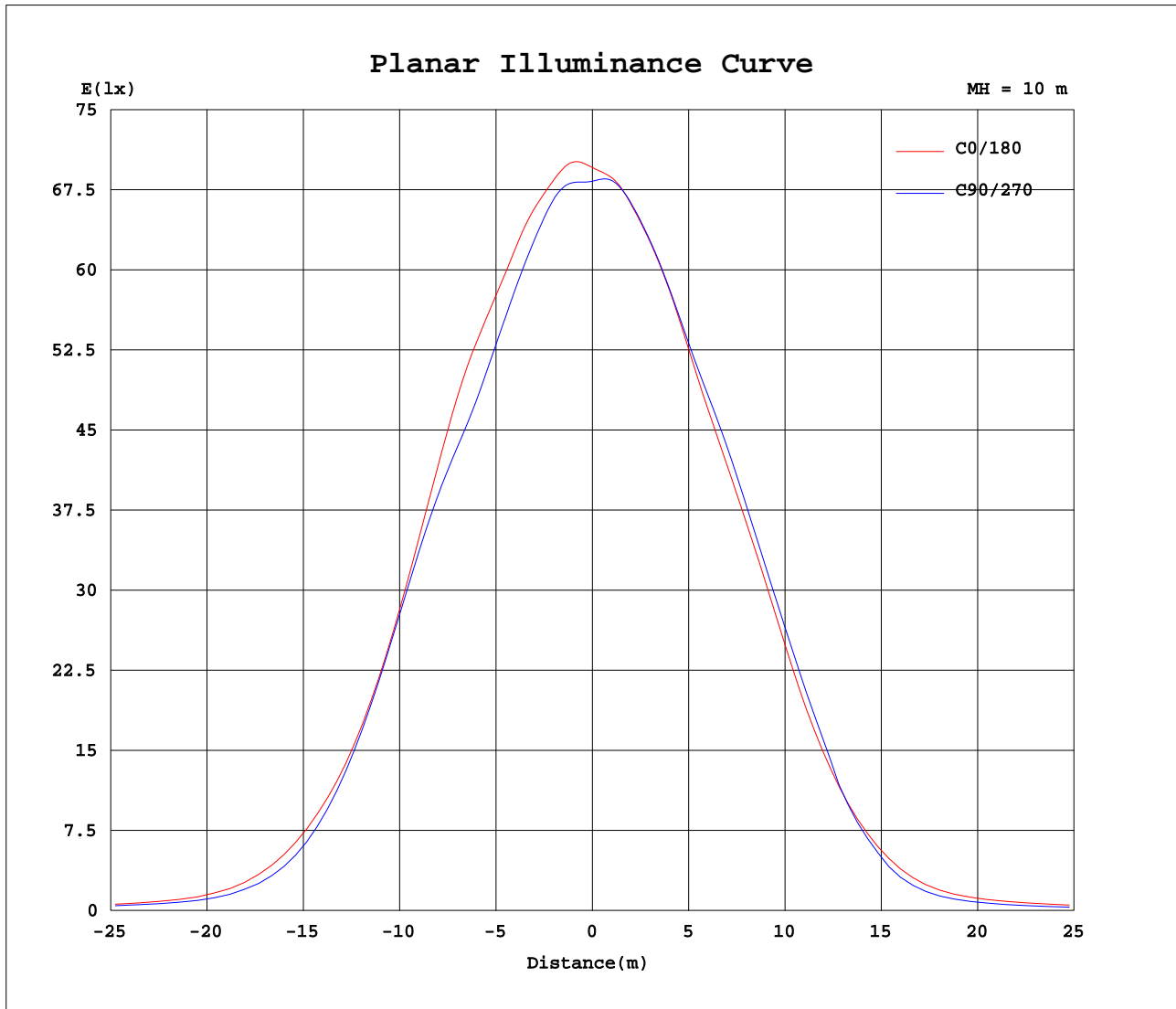
NAME: LED Tunnel Lights	TYPE:5S 3030	WEIGHT:5.2kg
SPEC.:	DIM.: 385*270*165mm	SERIAL No.:
MFR.: ZGSM	SUR.:250*296 mm	Shielding Angle:



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

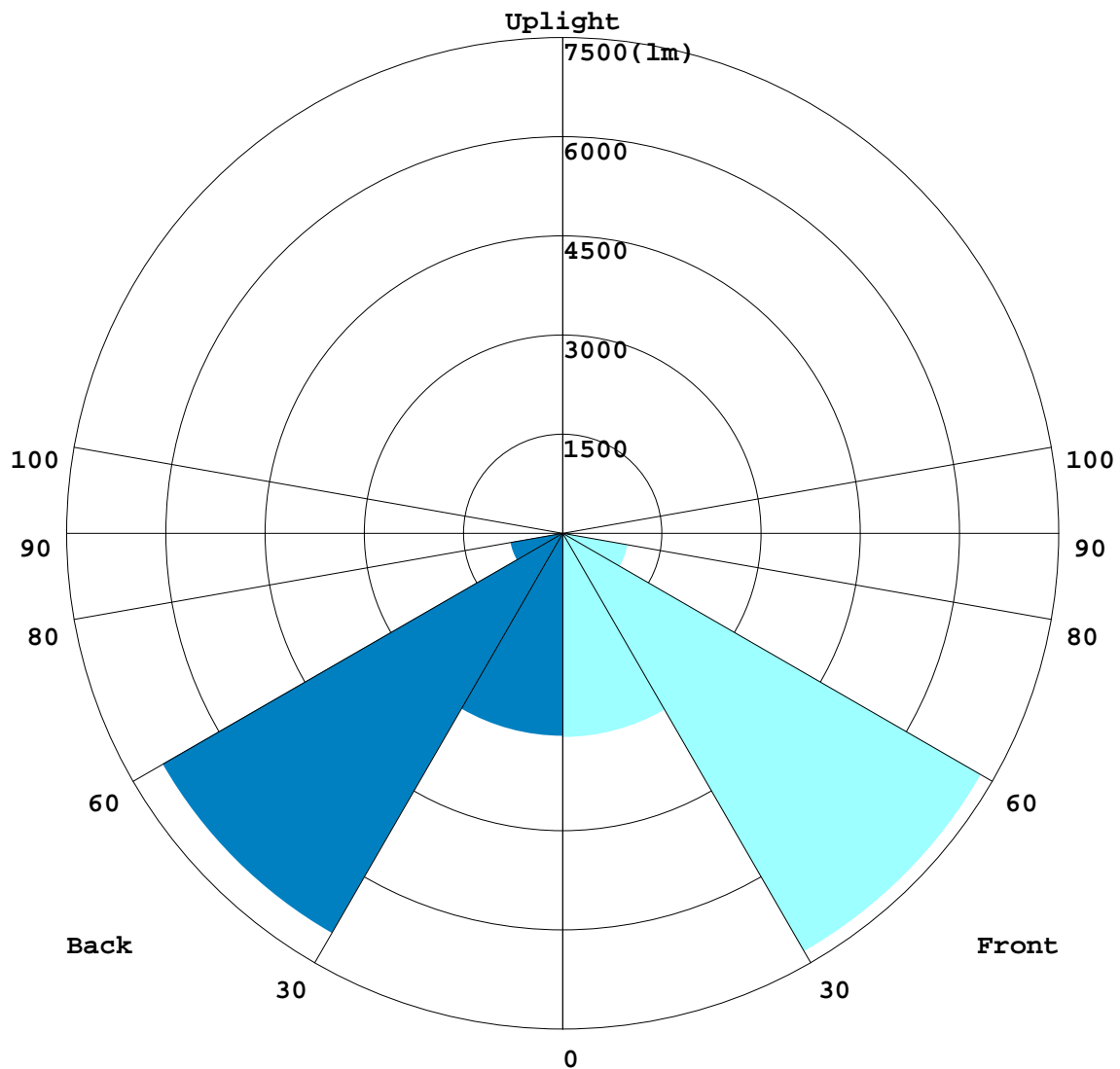


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2018

$\gamma$  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:5.2kg
SPEC.:	DIM.: 385*270*165mm	SERIAL No.:
MFR.: ZGSM	SUR.:250*296 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:5.2kg
SPEC.:	DIM.: 385*270*165mm	SERIAL No.:
MFR.: ZGSM	SUR.:250*296 mm	Shielding Angle:

#### IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	3085.7	13.8
FM - Front-Medium(30-60)	7305.4	32.6
FH - Front-High(60-80)	999.45	4.5
FVH - Front-Very High(80-90)	102.93	0.5
Total Forward Light	11493	51.3

BL - Back-Low(0-30)	3066.7	13.7
BM - Back-Medium(30-60)	6985.3	31.2
BH - Back-High(60-80)	801.48	3.6
BVH - Back-Very High(80-90)	52.875	0.2
Total Back Light	10906	48.7

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	B4-U0-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	10906	0	10906
Street Side	11493	0	11493

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

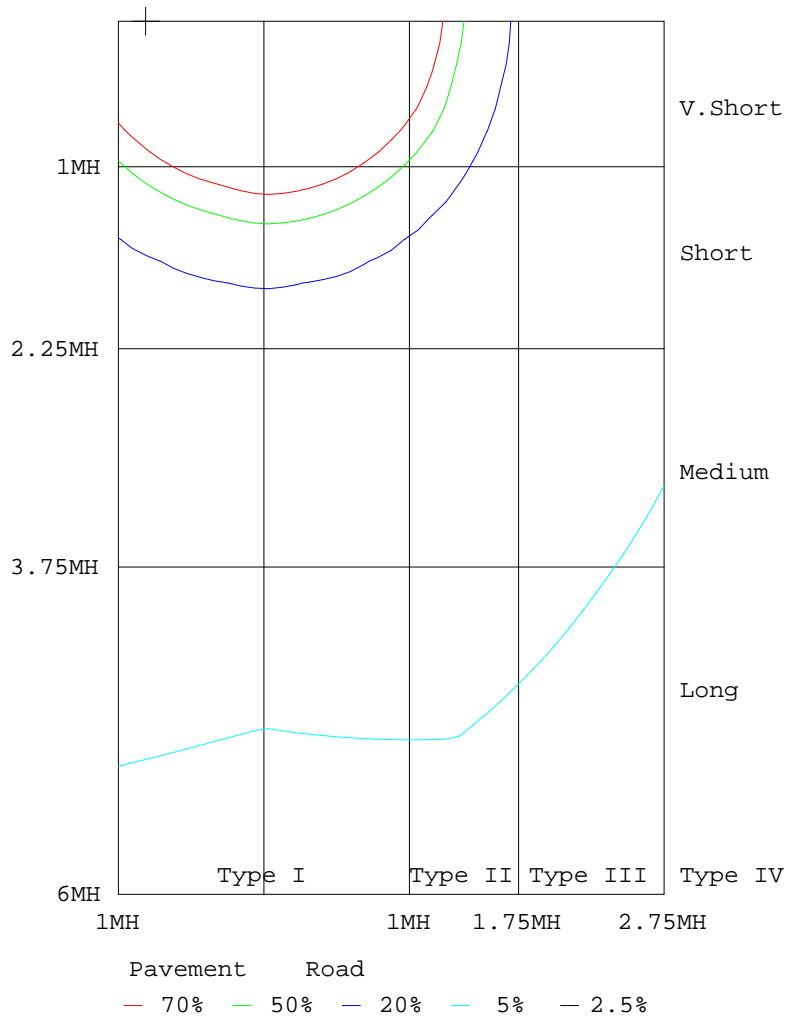
γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.480m [K=1.0000]  
Remarks:



ROAD ISOCANDELA REPORT

NAME: LED Tunnel Lights	TYPE:5S 3030	WEIGHT:5.2kg
SPEC.:	DIM.: 385*270*165mm	SERIAL No.:
MFR.: ZGSM	SUR.:250*296 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:

```

```

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:

```