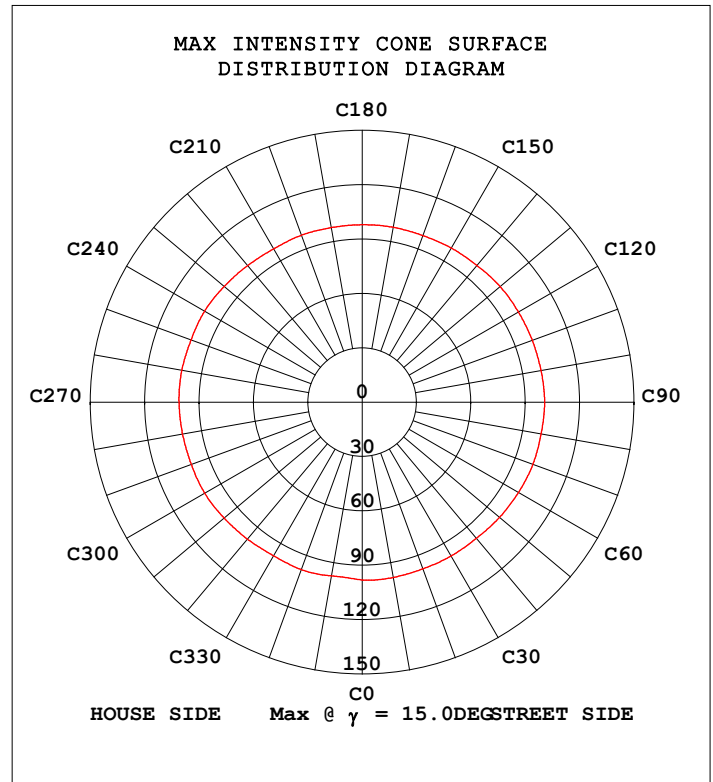
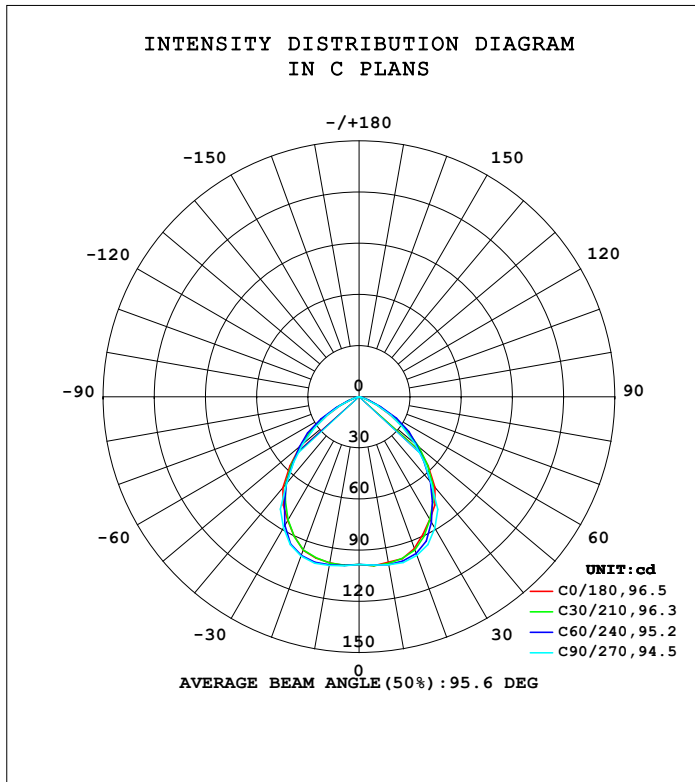


**STREETLIGHT PHOTOMETRIC TEST REPORT**

NAME: 98SOL105	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 618 x 256 x 57	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	98SOL105	Imax (cd)	101.1	$\eta$ street_up (%)	0.0
NOMINAL POWER (W)	90	LOR (%)	20.2	$\eta$ street_down (%)	10.1
RATED VOLTAGE (V)	0	TOTAL FLUX (lm)	217.8	$\eta$ house_up (%)	0.0
NOMINAL FLUX (lm)	1080	MAXIMUM @ (C, $\gamma$ )	260, 15.0	$\eta$ house_down (%)	10.1
LAMPS INSIDE	1	$\eta$ up (%)	0.0	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)	0	$\eta$ down (%)	20.2	SLI	10.642

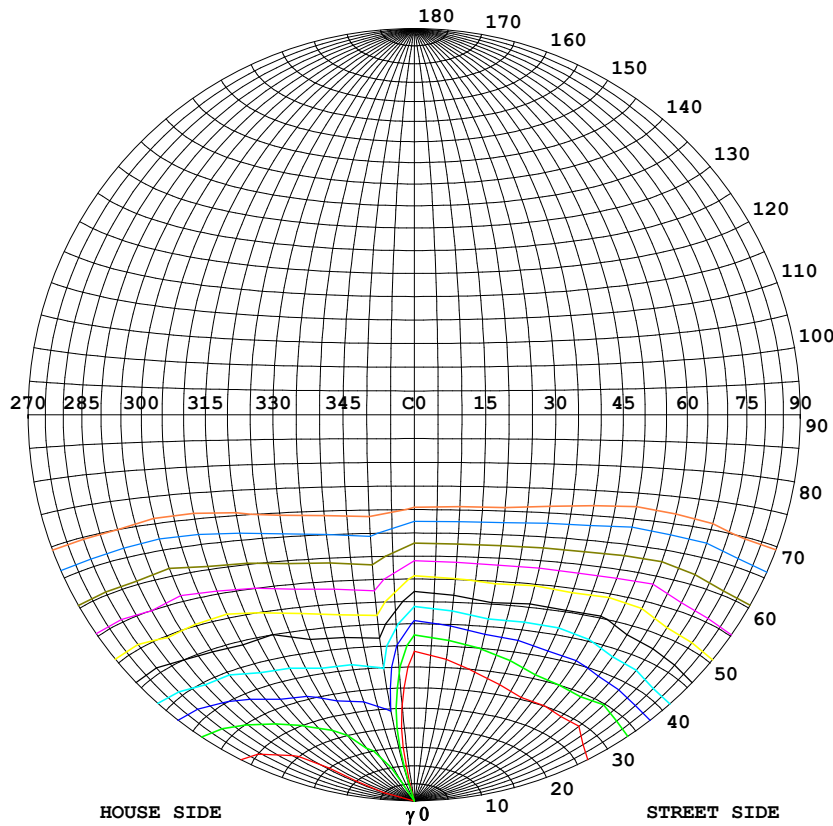


C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators:  
Test Date: 03 November 2022

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 5.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity: 65.0%  
Test Distance: 6.265m [K=1.0000]  
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

NAME: 98SOL105	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 618 x 256 x 57	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:



Classification:

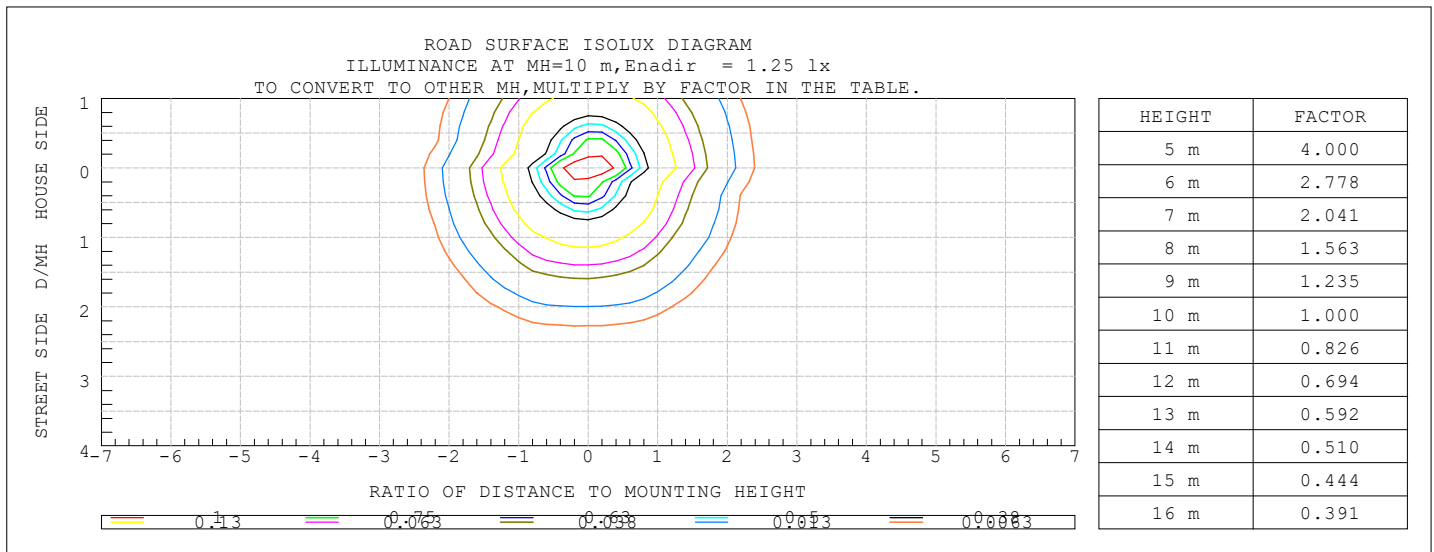
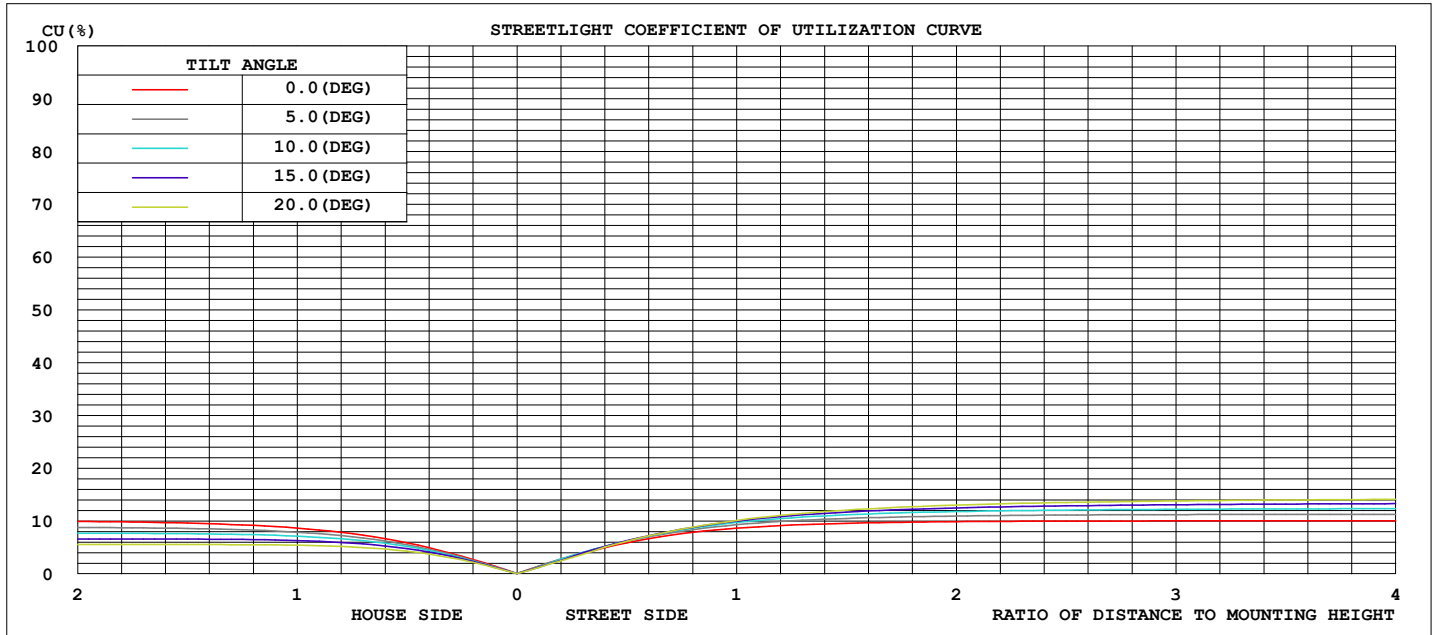
IES:Type V - Very Short  
 CIE:Narrow - Short  
 IES:Cut-off  
 CIE:Full cut-off  
 Max.At80:0.9938cd/klm  
 Max.At90:0.0248cd/klm  
 Max.80-90:0.9938cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I <sub>max</sub> =100%	101
90%	91
80%	81
70%	71
60%	61
50%	51
40%	40
30%	30
20%	20
10%	10
5%	5

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:  
 Test Date:03 November 2022

γ Range: 0 - 90DEG  
 γ Interval: 5.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity:65.0%  
 Test Distance:6.265m [K=1.0000]  
 Remarks:

# COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators:  
Test Date: 03 November 2022

γ Range: 0 - 90DEG  
γ Interval: 5.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity: 65.0%  
Test Distance: 6.265m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

NAME: 98SOL105	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 618 x 256 x 57	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:

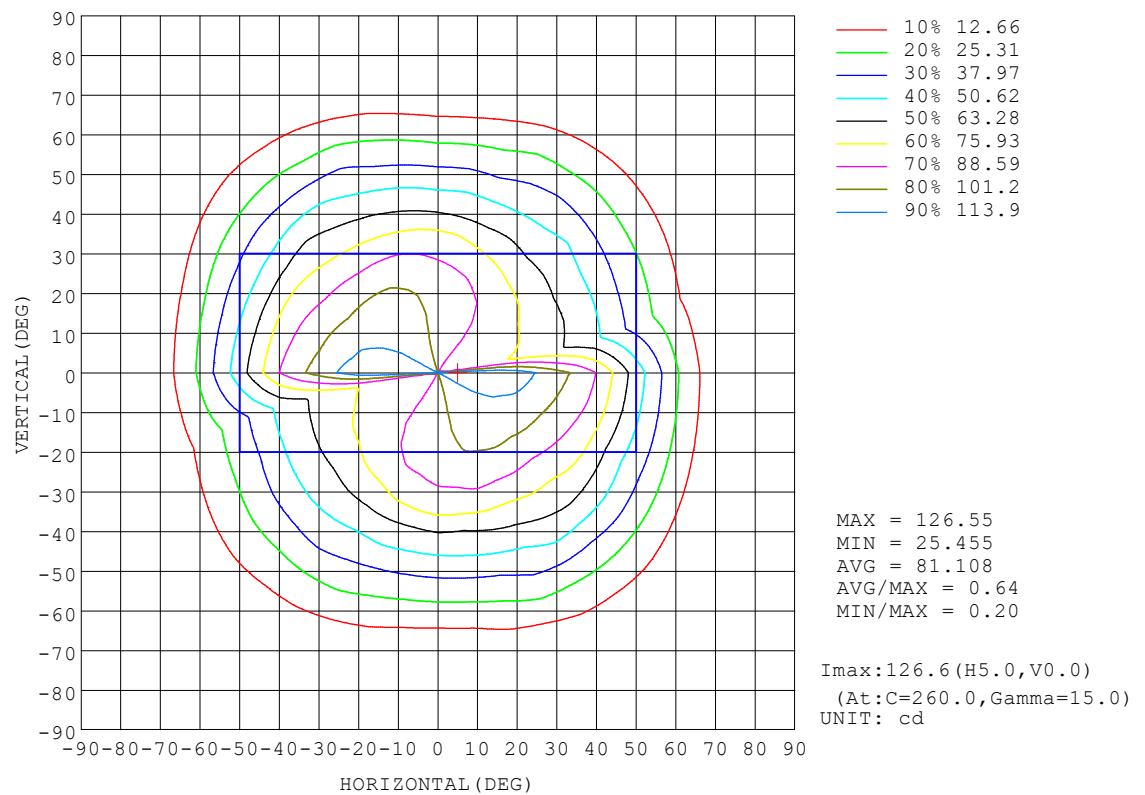
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	98.62	99.57	100.1	99.61	98.86	99.43	100.5	99.99	0- 10	9.477	9.477	4.35,0.88
20	94.83	96.31	99.07	96.91	95.87	97.10	99.38	97.26	10- 20	27.95	37.43	17.2,3.47
30	83.07	83.19	88.97	84.46	83.66	84.45	88.62	84.13	20- 30	42.34	79.77	36.6,7.39
40	69.33	66.07	65.67	65.93	69.60	65.82	65.97	66.28	30- 40	47.82	127.6	58.6,11.8
50	44.80	46.79	42.82	46.72	45.20	46.82	43.08	47.57	40- 50	43.09	170.7	78.4,15.8
60	21.38	23.53	21.57	23.93	21.86	23.89	21.49	24.23	50- 60	30.30	201.0	92.3,18.6
70	4.245	6.428	4.440	6.897	5.081	6.916	4.358	6.553	60- 70	13.72	214.7	98.6,19.9
80	0.6712	0.8286	0.7204	1.007	0.8266	1.041	0.7777	0.8576	70- 80	2.741	217.4	99.8,20.1
90	0.0257	0.0248	0.0168	0.0158	0.0214	0.0198	0.0028	0.0047	80- 90	0.3675	217.8	100,20.2
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: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:03 November 2022

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.265m [K=1.0000]  
Remarks:

ISOCANDELA DIAGRAM

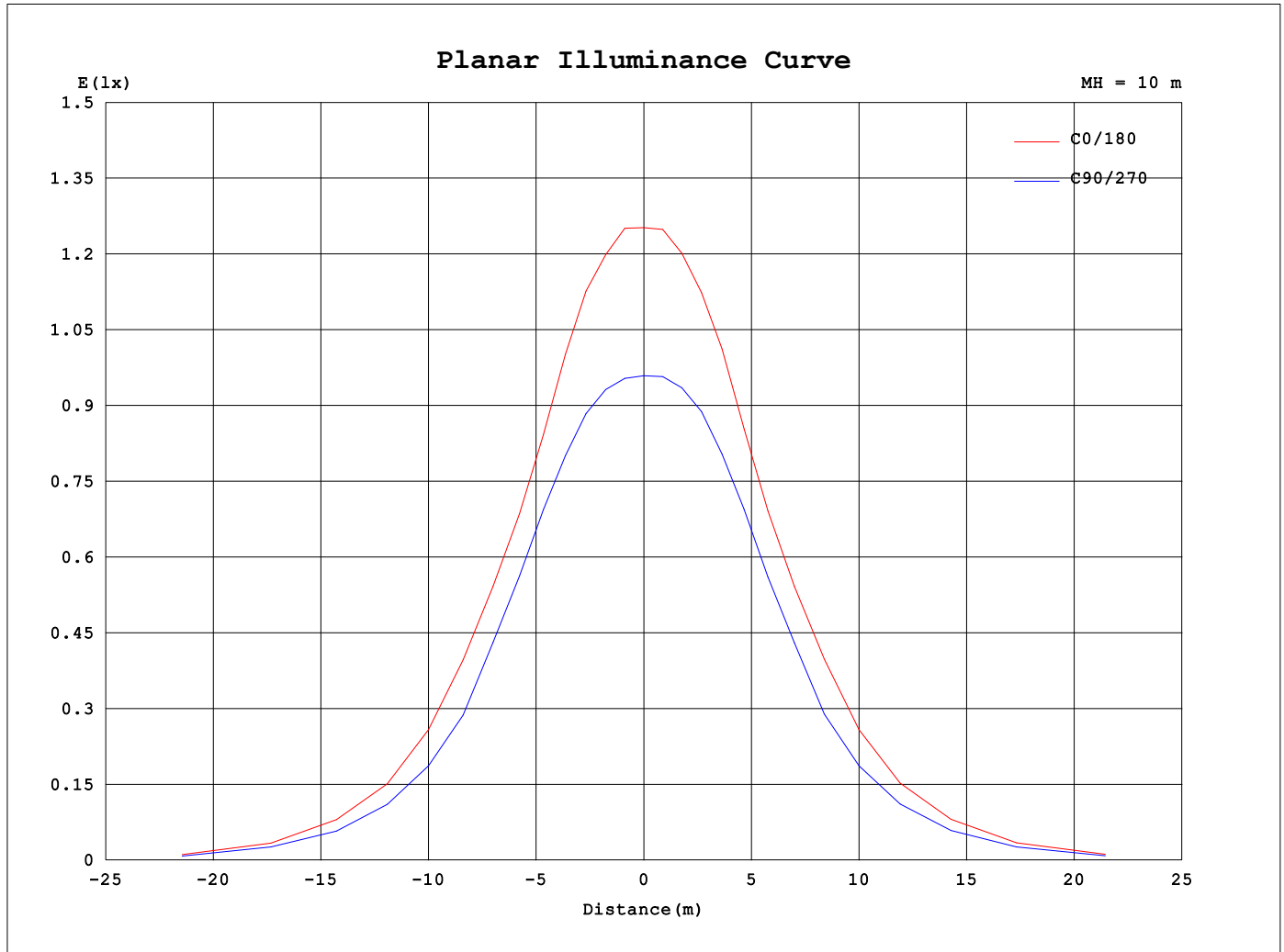
NAME: 98SOL105	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 618 x 256 x 57	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:  
 Test Date:03 November 2022

γ Range: 0 - 90DEG  
 γ Interval: 5.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity:65.0%  
 Test Distance:6.265m [K=1.0000]  
 Remarks:

# Planar Illuminance Curve

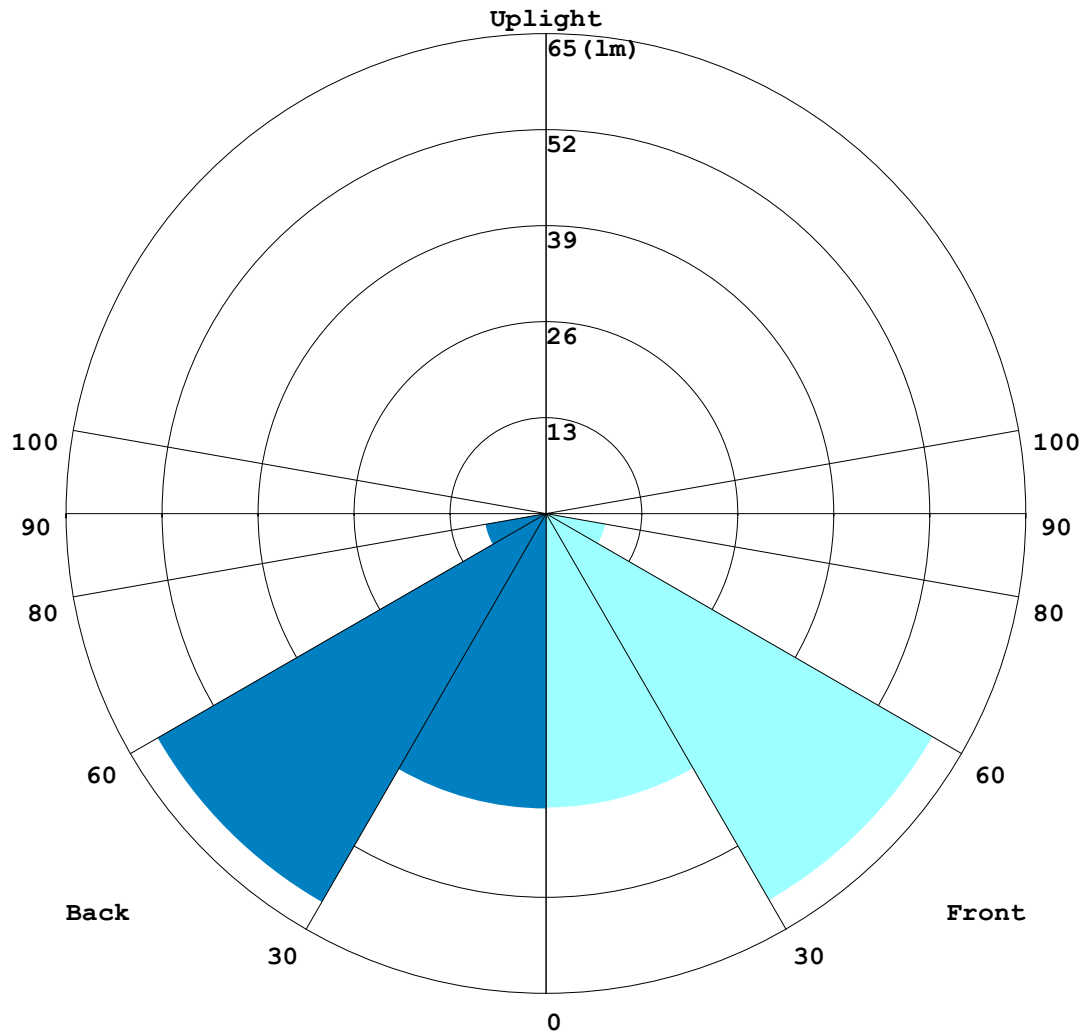


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 03 November 2022

γ Range: 0 - 90DEG  
 γ Interval: 5.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity: 65.0%  
 Test Distance: 6.265m [K=1.0000]  
 Remarks:

**LCS REPORT**

NAME: 98SOL105	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 618 x 256 x 57	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:

**LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH**


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 03 November 2022

γ Range: 0 - 90DEG  
 γ Interval: 5.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity: 65.0%  
 Test Distance: 6.265m [K=1.0000]  
 Remarks:

### BUG REPORT

NAME: 98SOL105	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 618 x 256 x 57	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:

#### IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	39.822	18.3
FM - Front-Medium(30-60)	60.467	27.8
FH - Front-High(60-80)	8.1372	3.7
FVH - Front-Very High(80-90)	0.17323	0.1
Total Forward Light	108.6	49.9

BL - Back-Low(0-30)	39.944	18.3
BM - Back-Medium(30-60)	60.749	27.9
BH - Back-High(60-80)	8.3263	3.8
BVH - Back-Very High(80-90)	0.19432	0.1
Total Back Light	109.21	50.1

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	B0-U0-G0
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	109.21	0	109.21
Street Side	108.6	0	108.6

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:03 November 2022

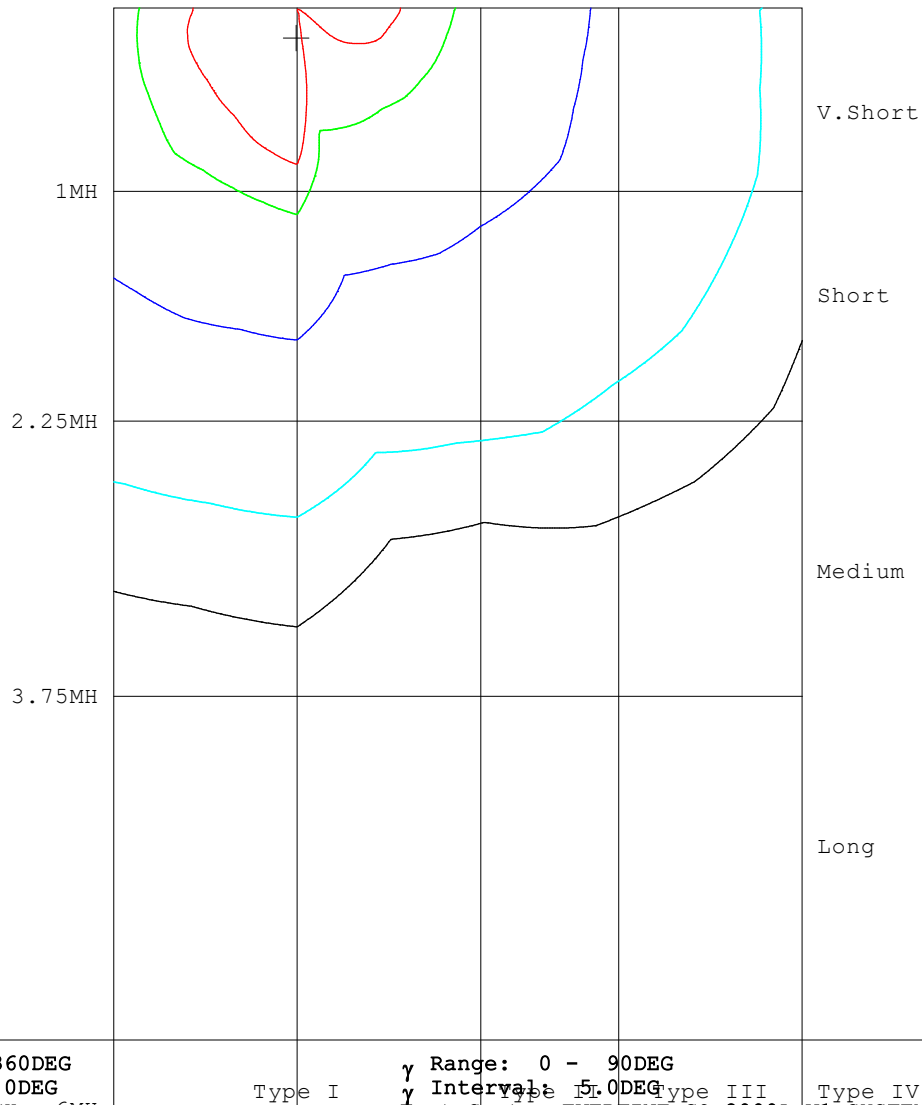
γ Range: 0 - 90DEG  
γ Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.265m [K=1.0000]  
Remarks:



ROAD ISOCANDELA REPORT

NAME: 98SOL105	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 618 x 256 x 57	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH 6MH

Temperature: 25.3°C 1MH

Operators:

Test Date: 03 November 2022

γ Range: 0 - 90DEG

γ Interval: 5.0DEG

Test System: EVERFINE GO-2000A-V1 SYSTEM V2.00.456

Humidity: 65.0% 75MH 2.75MH

Test Distance: 6.265m [K=1.0009] 2.9% 3.1185

Remarks:

— 70% 87.319 Road 20% 24.948  
— 50% 62.371 — 5% 6.2371

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γ Range: 0 - 90DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

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γ Range: 0 - 90DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

```