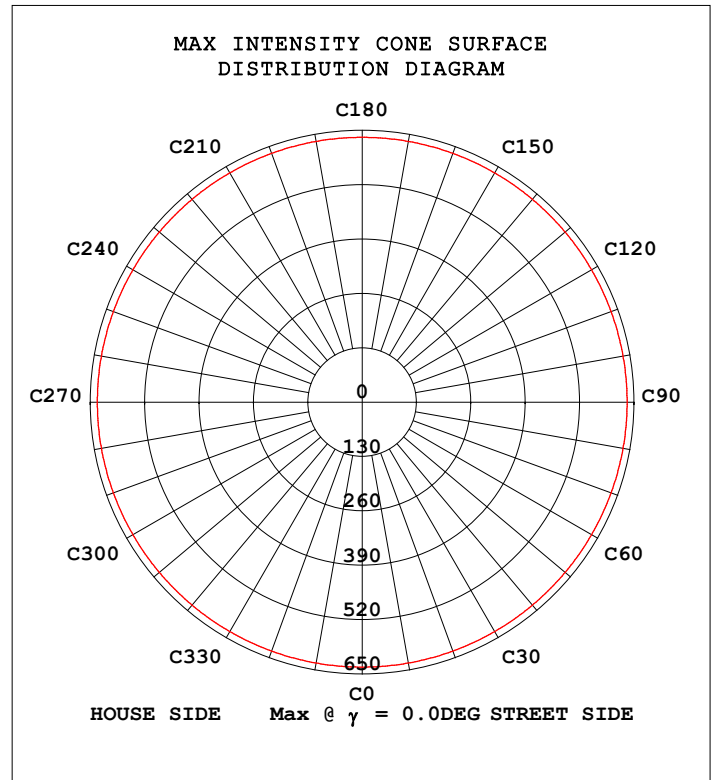
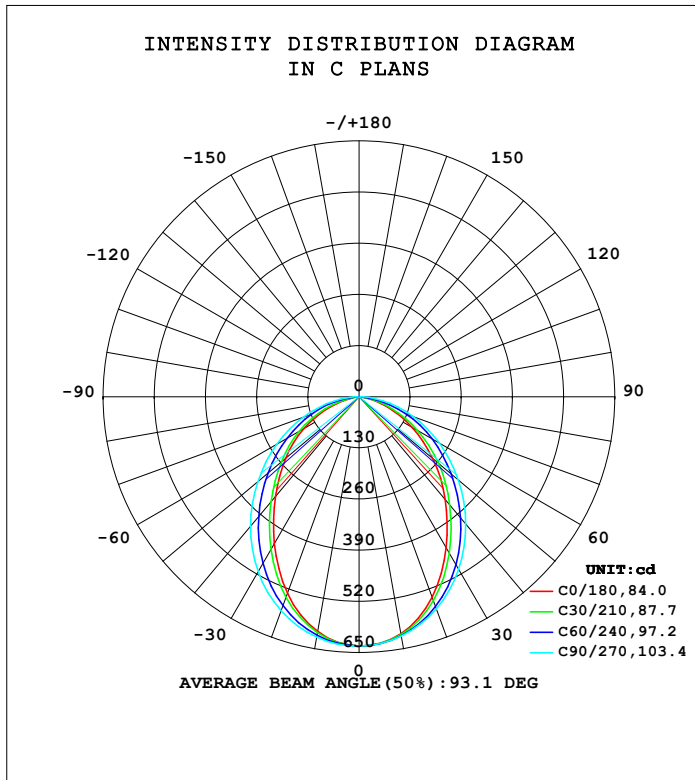


# STREETLIGHT PHOTOMETRIC TEST REPORT

NAME: 93M20FL2030/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 605 x 20 x 40	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: paralelepiped	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	93M20FL2030/BL	Imax (cd)	633.3	$\eta$ street_up (%)	0.0
NOMINAL POWER (W)	20	LOR (%)	124.1	$\eta$ street_down (%)	61.6
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	1440	$\eta$ house_up (%)	0.0
NOMINAL FLUX (lm)	1160	MAXIMUM @ (C, $\gamma$ )	30, 0.0	$\eta$ house_down (%)	62.5
LAMPS INSIDE	1	$\eta$ up (%)	0.0	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)	48	$\eta$ down (%)	124.1	SLI	15.239

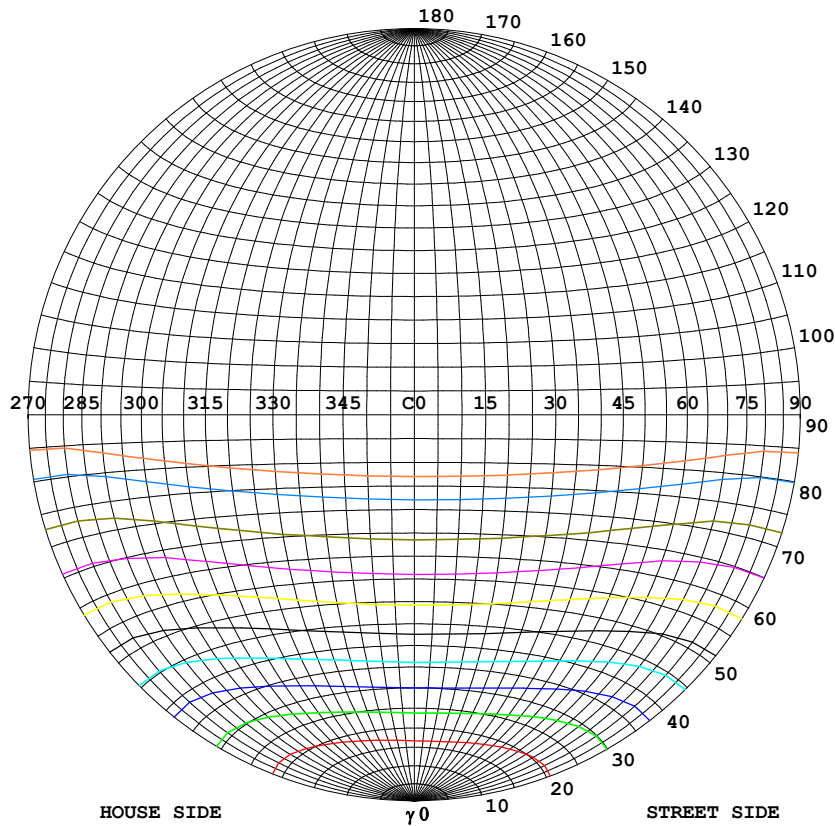


C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3°C  
Operators:  
Test Date: 08 November 2022

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 2.5DEG  
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: 93M20FL2030/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 605 x 20 x 40	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: paralelepiped	Shielding Angle:



Classification:

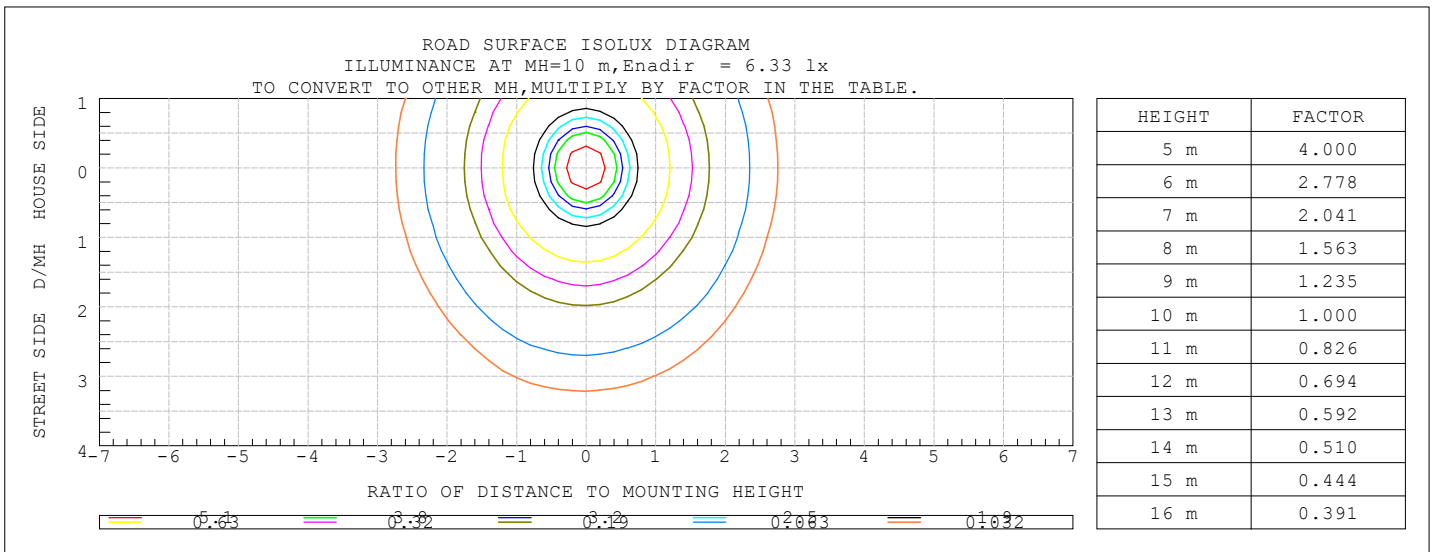
IES:Type II - Very Short  
 CIE:Narrow - Short  
 IES:Cut-off  
 CIE:Semi-cut-off  
 Max.At80:57.19cd/klm  
 Max.At90:3.854cd/klm  
 Max.80-90:57.19cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I <sub>max</sub> =100%	633
90%	570
80%	507
70%	443
60%	380
50%	317
40%	253
30%	190
20%	127
10%	63
5%	32

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3°C  
 Operators:  
 Test Date:08 November 2022

γ Range: 0 - 90DEG  
 γ Interval: 2.5DEG  
 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: MEDIUM  
Temperature: 25.3°C  
Operators:  
Test Date: 08 November 2022

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 2.5DEG  
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: 93M20FL2030/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 605 x 20 x 40	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: paralelepiped	Shielding Angle:

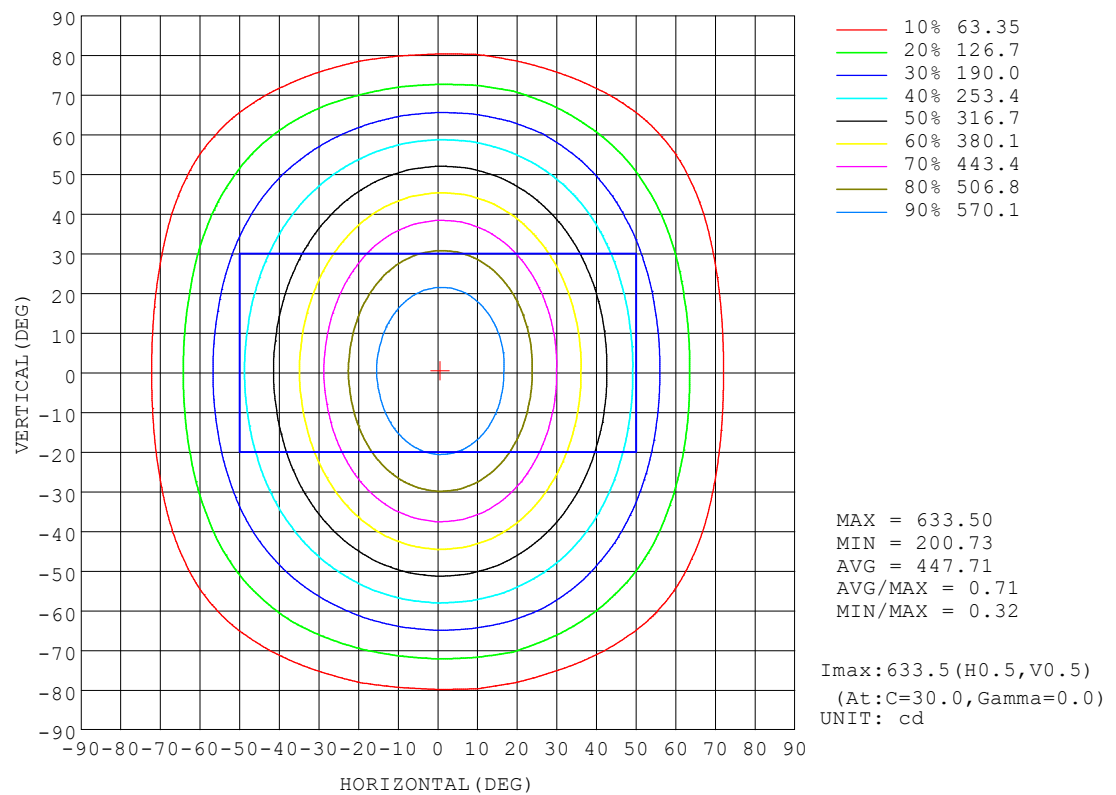
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	611.4	615.3	617.5	610.1	605.5	612.0	620.2	617.6	0- 10	59.52	59.52	4.13,5.13
20	542.8	560.0	573.6	550.4	532.0	553.8	578.6	564.2	10- 20	165.9	225.4	15.7,19.4
30	442.4	475.6	506.0	463.6	430.7	467.5	512.7	481.2	20- 30	237.8	463.2	32.2,39.9
40	341.0	378.2	422.1	366.4	330.3	370.5	429.3	384.0	30- 40	266.1	729.3	50.7,62.9
50	244.9	284.1	329.3	273.4	243.5	277.2	336.2	289.2	40- 50	255.4	984.7	68.4,84.9
60	155.2	192.0	235.6	189.2	162.6	192.5	241.6	196.6	50- 60	214.4	1199	83.3,103
70	77.65	104.1	145.5	107.2	79.95	110.3	150.2	107.7	60- 70	151.1	1350	93.8,116
80	14.95	29.73	62.20	28.87	13.58	30.76	65.90	32.13	70- 80	75.39	1426	99,123
90	0.6017	0.7786	3.380	0.8123	0.5227	0.7310	4.471	0.7075	80- 90	13.94	1440	100,124
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: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:08 November 2022

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 2.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.265m [K=1.0000]  
Remarks:

# ISOCANDELA DIAGRAM

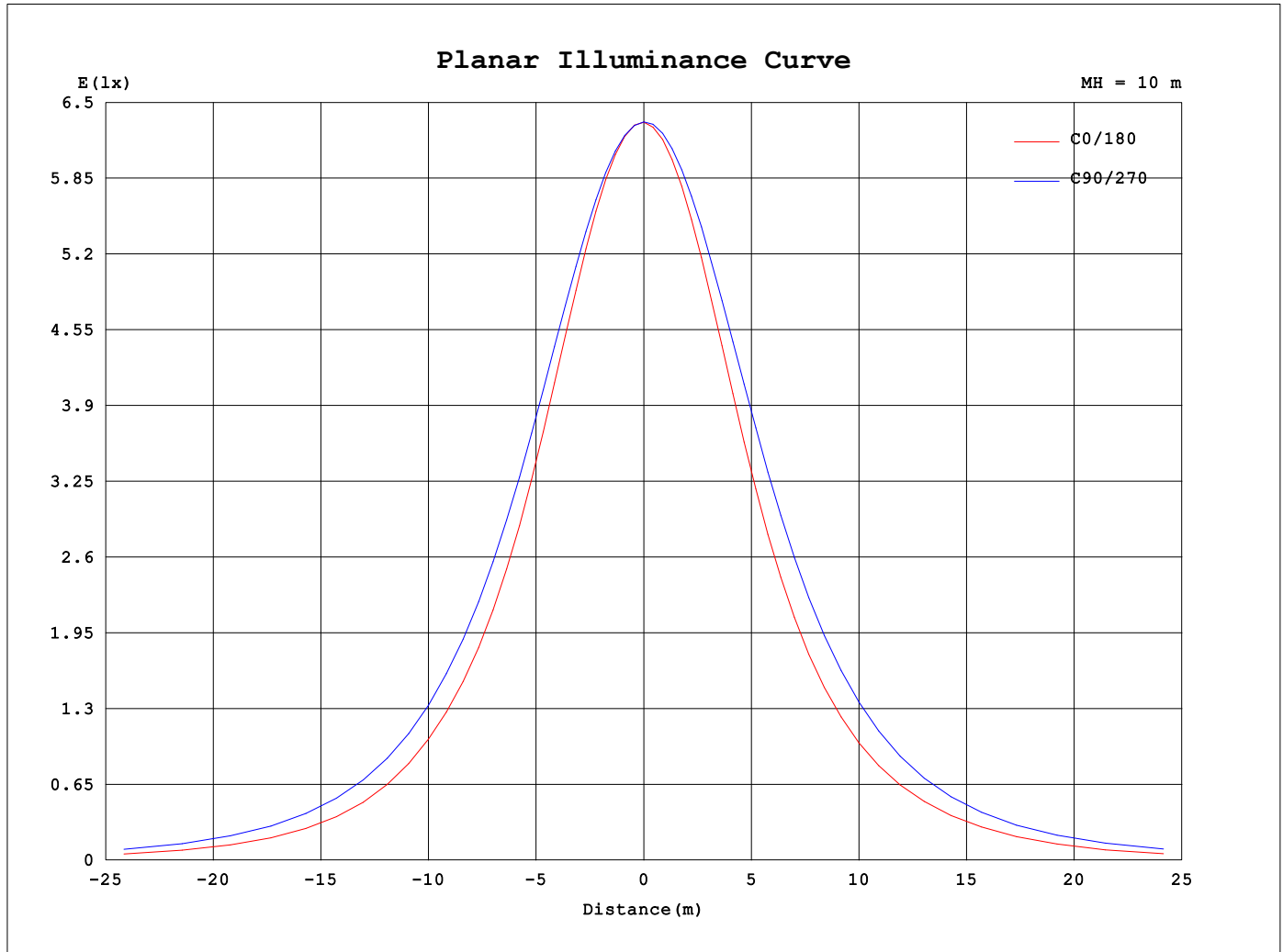
NAME: 93M20FL2030/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 605 x 20 x 40	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: paralelepiped	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3°C  
Operators:  
Test Date: 08 November 2022

γ Range: 0 - 90DEG  
γ Interval: 2.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity: 65.0%  
Test Distance: 6.265m [K=1.0000]  
Remarks:

## Planar Illuminance Curve

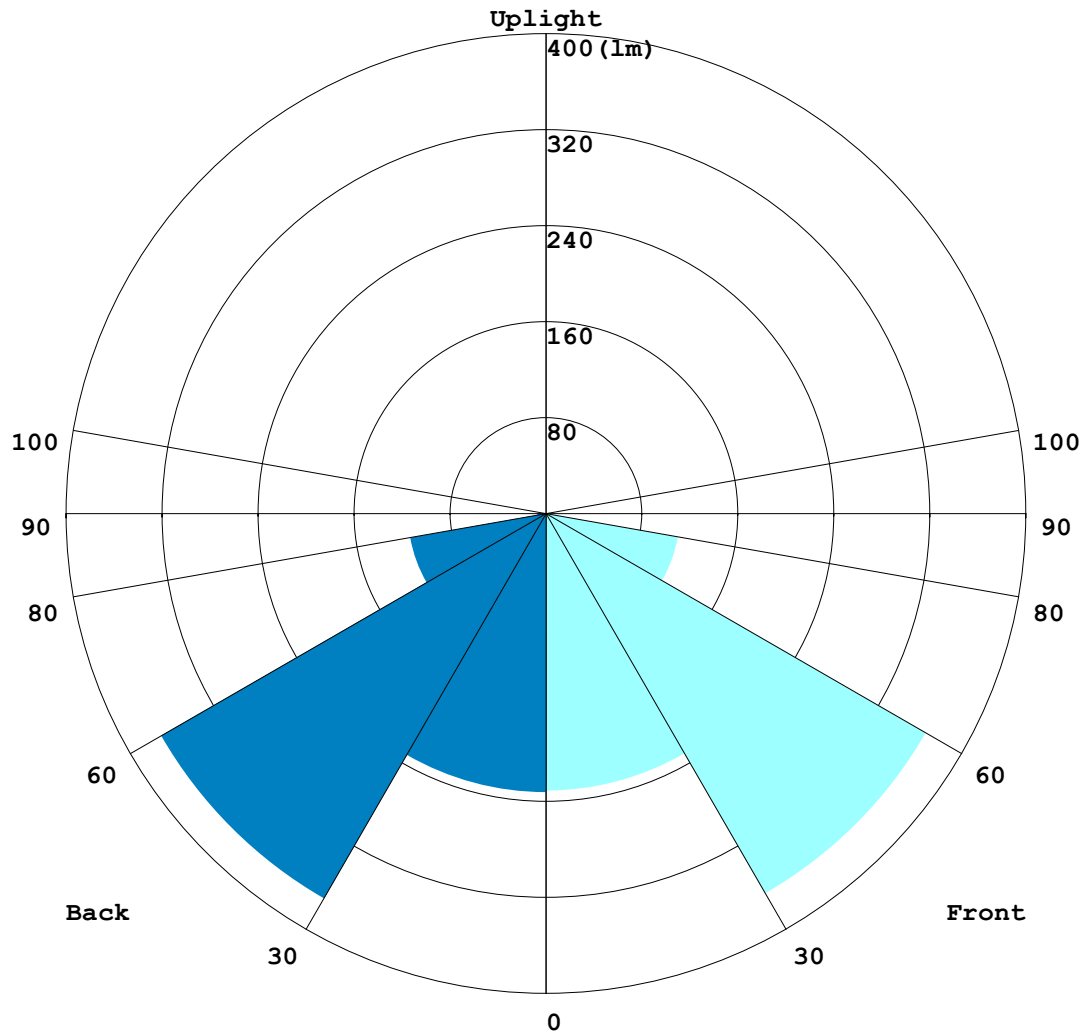


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 08 November 2022

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 2.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity: 65.0%  
 Test Distance: 6.265m [K=1.0000]  
 Remarks:

**LCS REPORT**

NAME: 93M20FL2030/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 605 x 20 x 40	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: paralelepiped	Shielding Angle:

**LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH**


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 08 November 2022

γ Range: 0 - 90DEG  
 γ Interval: 2.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity: 65.0%  
 Test Distance: 6.265m [K=1.0000]  
 Remarks:

### BUG REPORT

NAME: 93M20FL2030/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 605 x 20 x 40	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: paralelepiped	Shielding Angle:

#### IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	231	16.0
FM - Front-Medium(30-60)	365.64	25.4
FH - Front-High(60-80)	111.62	7.8
FVH - Front-Very High(80-90)	6.6541	0.5
Total Forward Light	714.92	49.7

BL - Back-Low(0-30)	232.17	16.1
BM - Back-Medium(30-60)	370.29	25.7
BH - Back-High(60-80)	114.85	8.0
BVH - Back-Very High(80-90)	7.2908	0.5
Total Back Light	724.6	50.3

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	B1-U0-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	724.6	0	724.6
Street Side	714.92	0	714.92

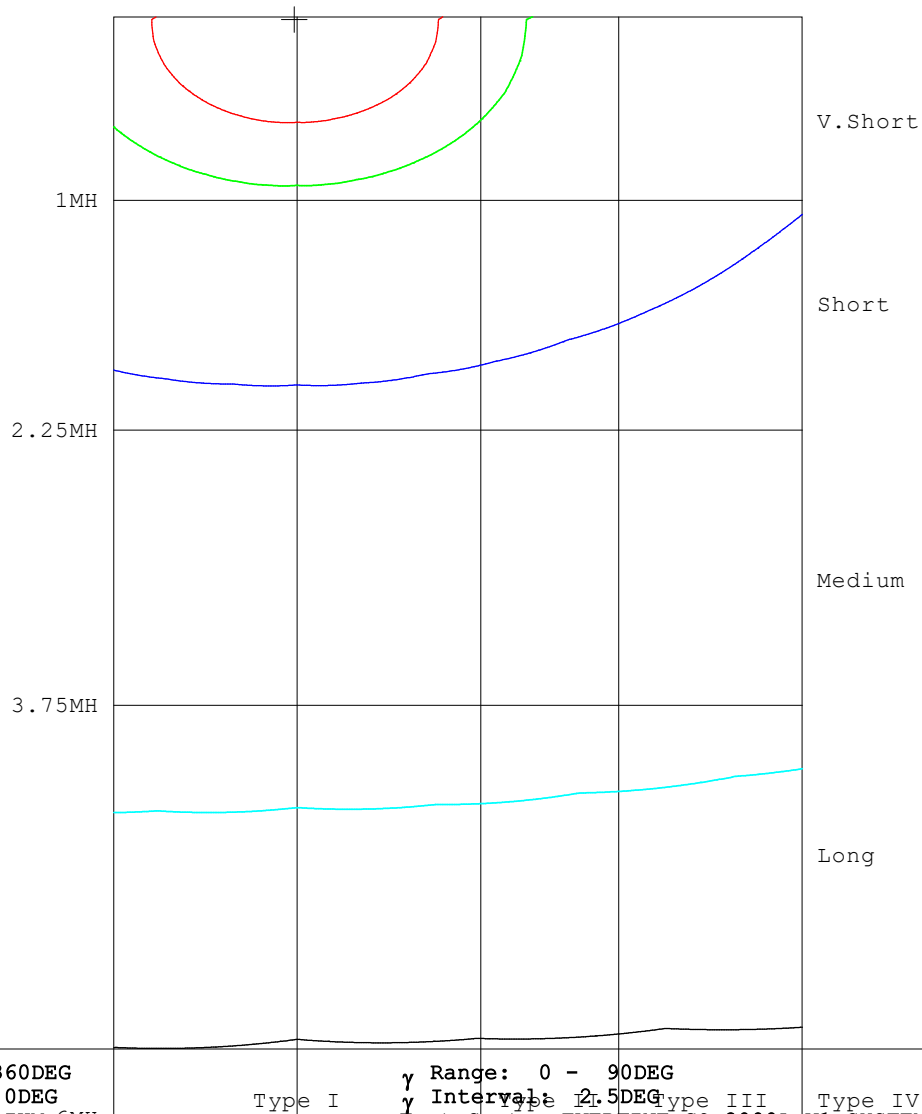
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:08 November 2022

γ Range: 0 - 90DEG  
γ Interval: 2.5DEG  
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: 93M20FL2030/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 605 x 20 x 40	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: paralelepiped	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM 6MH  
Temperature: 25.3°C  
Operators:  
Test Date: 08 November 2022

γ Range: 0 - 90DEG  
γ Interval: 2.5DEG  
Test System: EVERFINE GO-2000A-V1 SYSTEM V2.00.456  
Humidity: 65.0%  
Test Distance: 6.265m [K=1.0000]  
Remarks:

70% 443.65  
50% 316.89  
20% 126.76  
5% 31.689

```

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

```