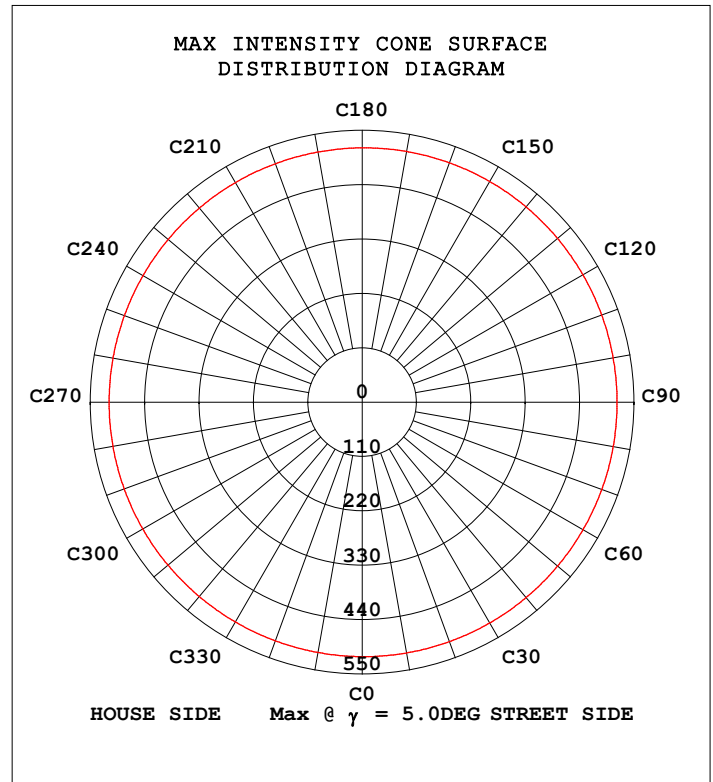
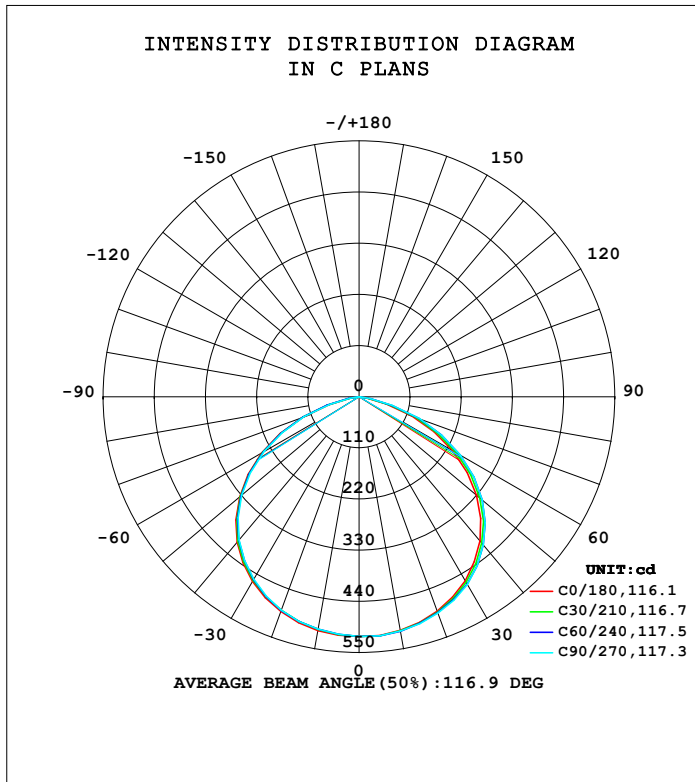


STREETLIGHT PHOTOMETRIC TEST REPORT

NAME: 98SOL111	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 495 x 210 x 80	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	98SOL104	Imax (cd)	516.1	η street_up(%)	0.0
NOMINAL POWER(W)	200	LOR(%)	150.2	η street_down(%)	76.1
RATED VOLTAGE(V)	0	TOTAL FLUX(lm)	1502	η house_up(%)	0.0
NOMINAL FLUX(lm)	1000	MAXIMUM @ (C, γ)	45,5.0	η house_down(%)	74.1
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	0	η down(%)	150.2	SLI	15.242

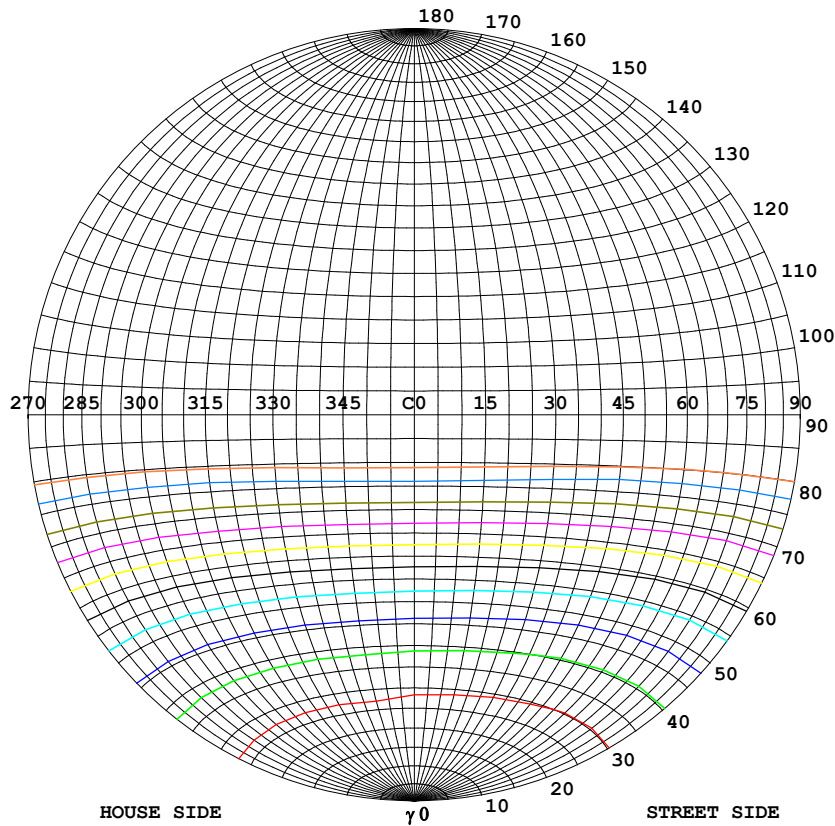


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:04 November 2022

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:

STREETLIGHT ISOCANDELA DIAGRAM

NAME: 98SOL111	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 495 x 210 x 80	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:



Classification:

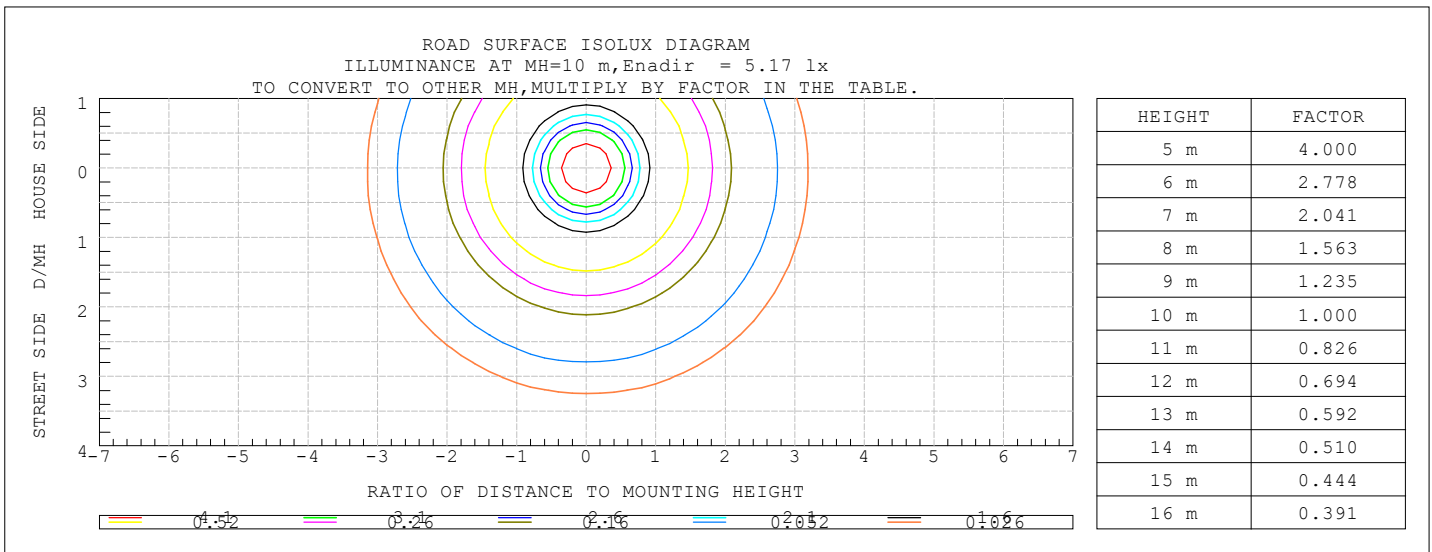
IES:Type V - Very Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:27.51cd/klm
 Max.At90:0.7097cd/klm
 Max.80-90:27.51cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	516
90%	464
80%	413
70%	361
60%	310
50%	258
40%	206
30%	155
20%	103
10%	52
5%	26

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:
 Test Date:04 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: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 04 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: 98SOL111	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 495 x 210 x 80	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:

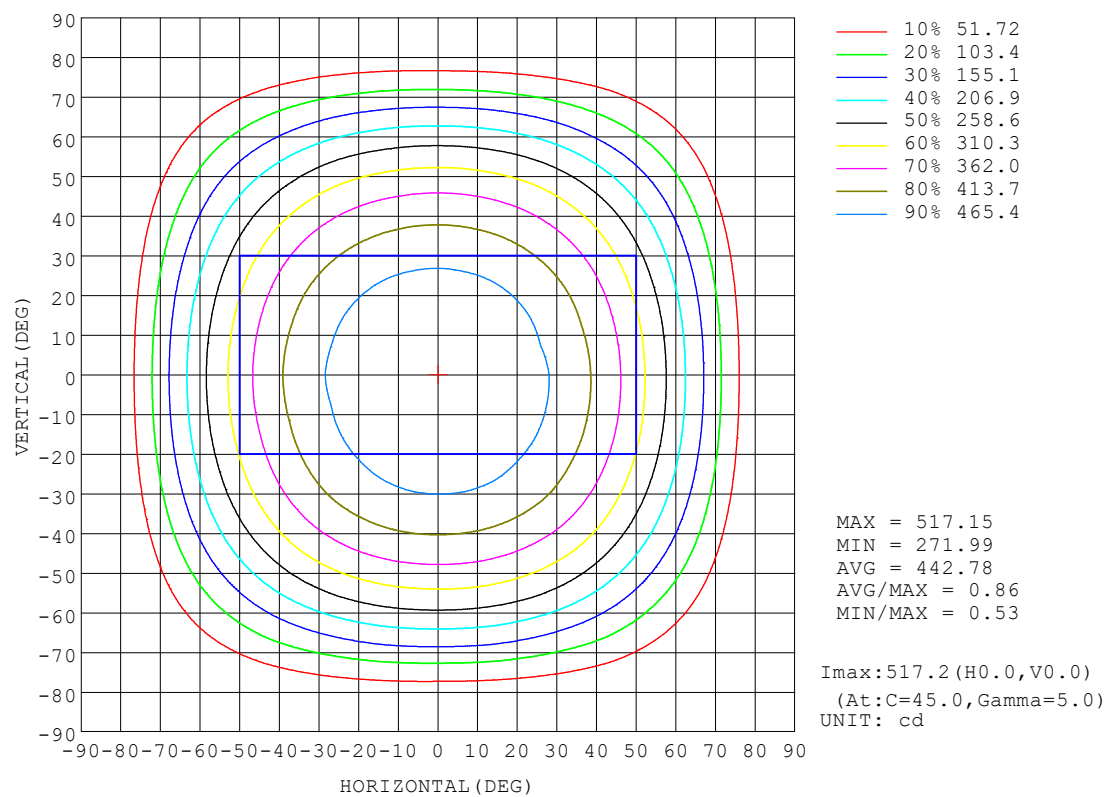
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	509.8	511.5	511.6	511.5	510.5	507.0	507.2	506.9	0- 10	48.94	48.94	3.26,4.89
20	490.8	493.7	494.8	494.0	491.4	488.9	488.7	489.1	10- 20	141.9	190.8	12.7,19.1
30	456.6	462.2	466.0	462.9	458.1	455.2	452.6	455.4	20- 30	220.0	410.8	27.4,41.1
40	404.4	414.8	415.9	415.8	407.5	403.5	401.4	402.9	30- 40	272.5	683.3	45.5,68.3
50	329.6	343.6	345.7	345.6	335.4	332.7	330.0	331.1	40- 50	289.0	972.4	64.7,97.2
60	233.0	247.2	252.1	251.3	242.2	239.1	236.2	235.6	50- 60	260.4	1233	82.1,123
70	121.0	132.8	138.6	138.4	128.9	127.9	126.2	122.8	60- 70	184.9	1418	94.4,142
80	15.31	23.80	25.62	26.44	19.31	22.11	21.44	20.33	70- 80	77.18	1495	99.5,149
90	0.6893	0.6850	0.6724	0.7038	0.5916	0.6333	0.6234	0.6138	80- 90	6.901	1502	100,150
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: MEDIUM
Temperature:25.3°C
Operators:
Test Date:04 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:

ISOCANDELA DIAGRAM

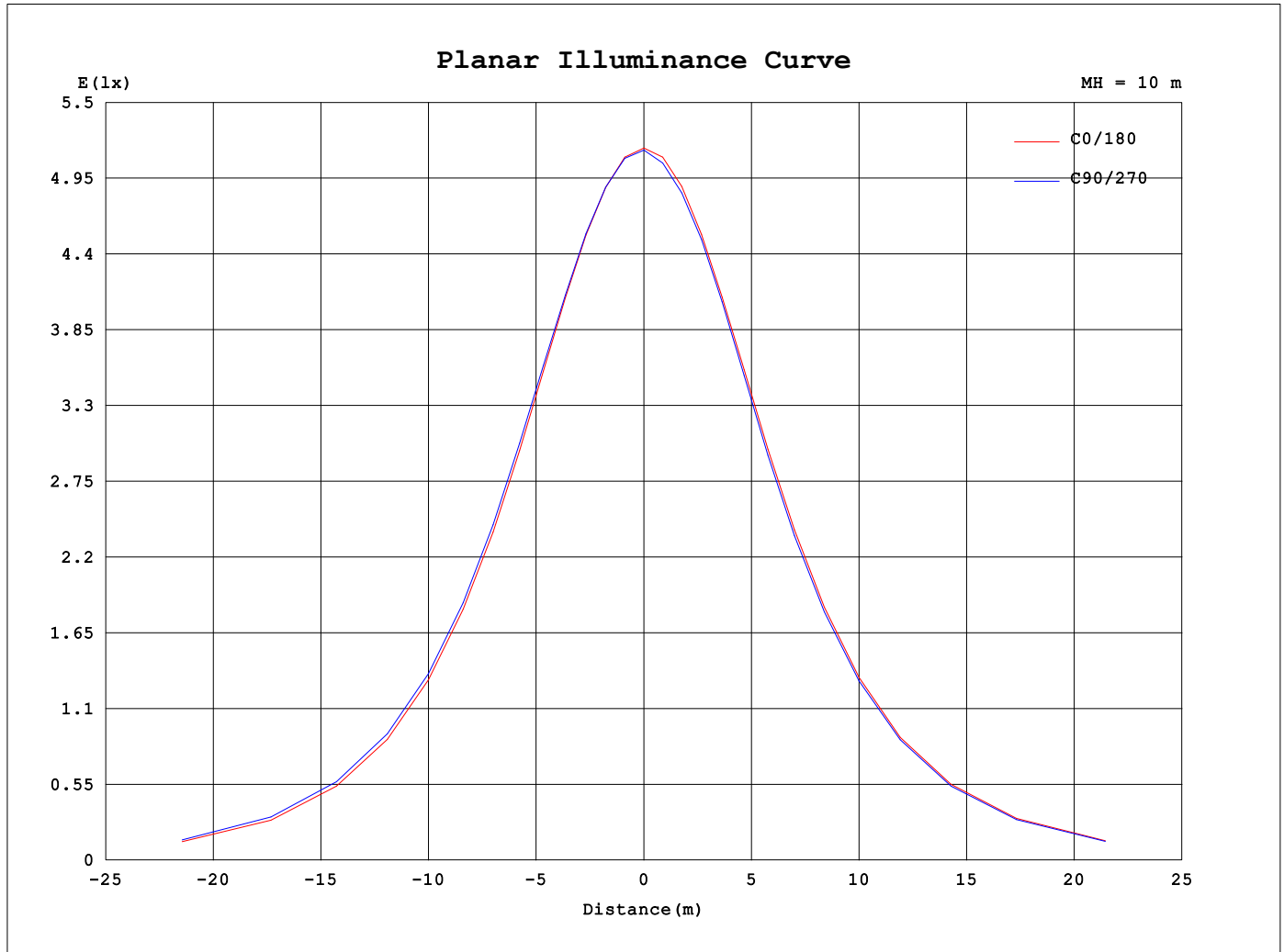
NAME: 98SOL111	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 495 x 210 x 80	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 04 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

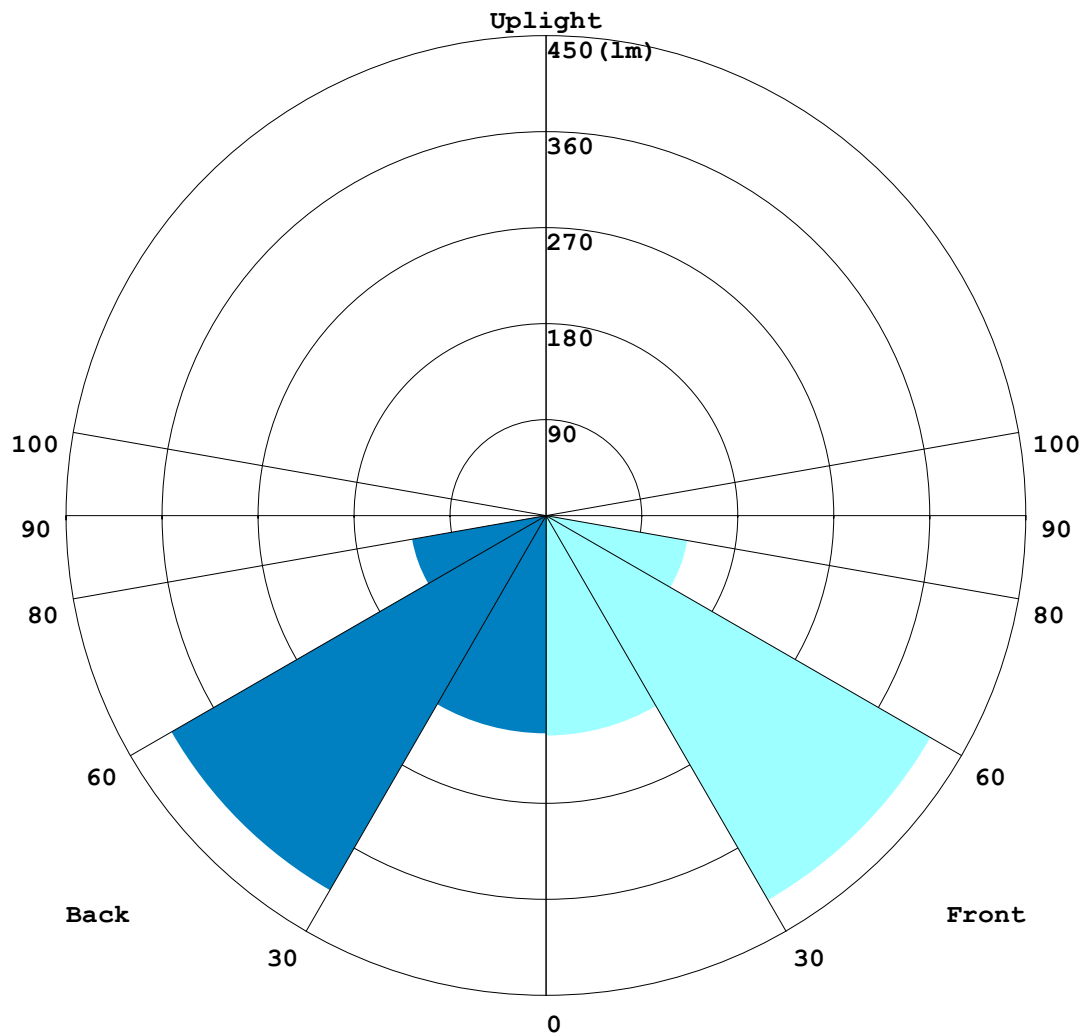


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 04 November 2022

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: 98SOL111	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 495 x 210 x 80	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 04 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: 98SOL111	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 495 x 210 x 80	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	206.41	13.7
FM - Front-Medium(30-60)	416.52	27.7
FH - Front-High(60-80)	134.59	9.0
FVH - Front-Very High(80-90)	3.6972	0.2
Total Forward Light	761.21	50.7

BL - Back-Low(0-30)	204.38	13.6
BM - Back-Medium(30-60)	405.47	27.0
BH - Back-High(60-80)	127.46	8.5
BVH - Back-Very High(80-90)	3.2037	0.2
Total Back Light	740.51	49.3

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-G0
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	740.51	0	740.51
Street Side	761.21	0	761.21

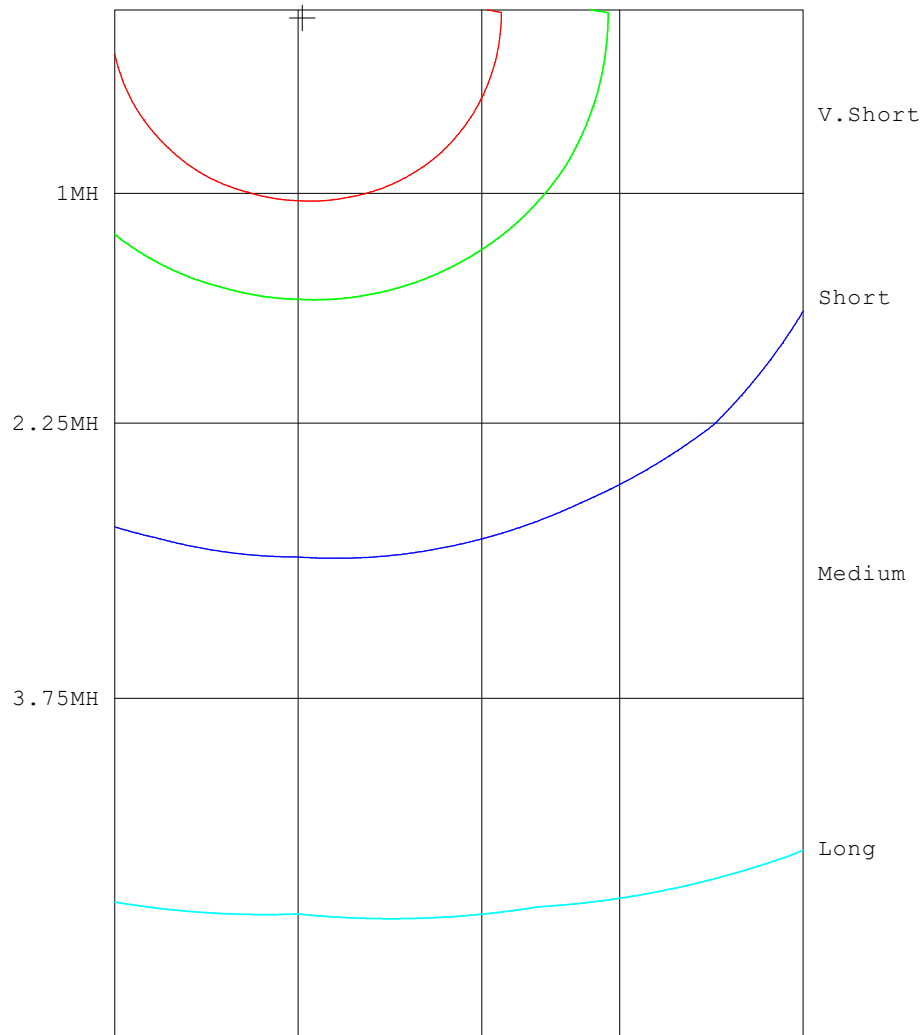
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:04 November 2022

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: 98SOL111	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 495 x 210 x 80	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM 6MH
Temperature: 25.3°C
Operators:
Test Date: 04 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:

70% 362.39
50% 258.85
20% 105.54
5% 25.885

```

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:

```