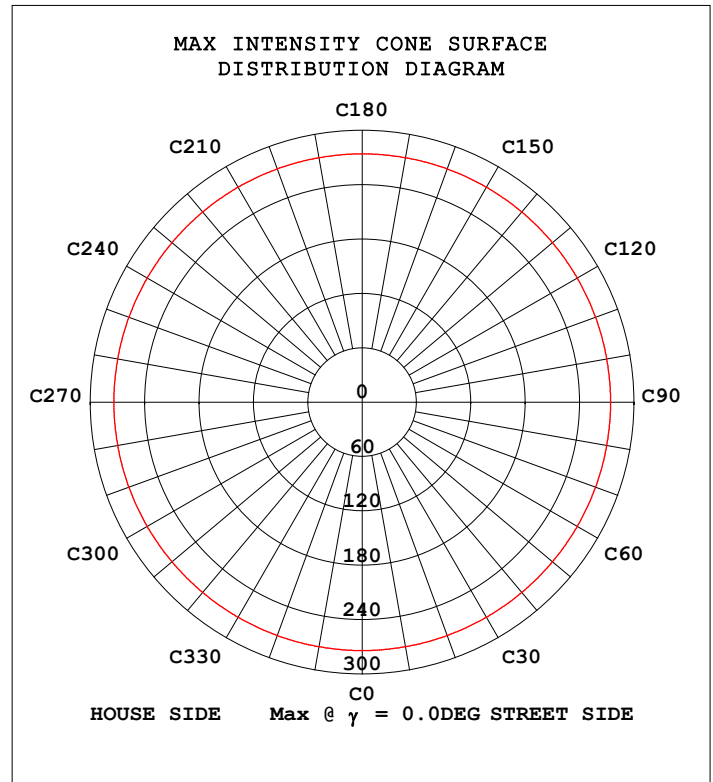
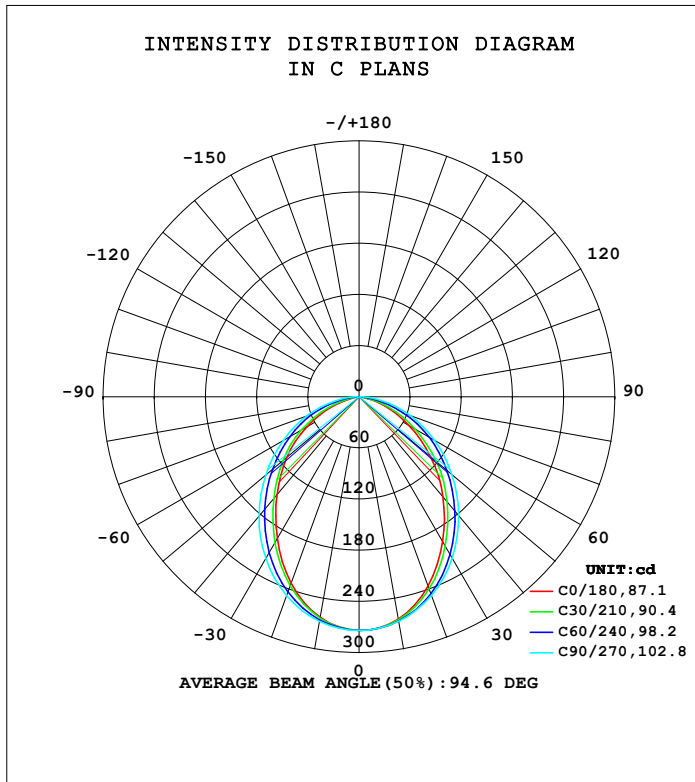


STREETLIGHT PHOTOMETRIC TEST REPORT

NAME: 93M20FL1040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 332 x 20 x 40	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: paralelepiped	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	93M20FL1040/BL	Imax (cd)	274.1	η street_up (%)	0.0
NOMINAL POWER (W)	10	LOR (%)	104.8	η street_down (%)	52.2
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	628.6	η house_up (%)	0.0
NOMINAL FLUX (lm)	600	MAXIMUM @ (C, γ)	70, 0.0	η house_down (%)	52.6
LAMPS INSIDE	1	η up (%)	0.0	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)	48	η down (%)	104.8	SLI	13.570

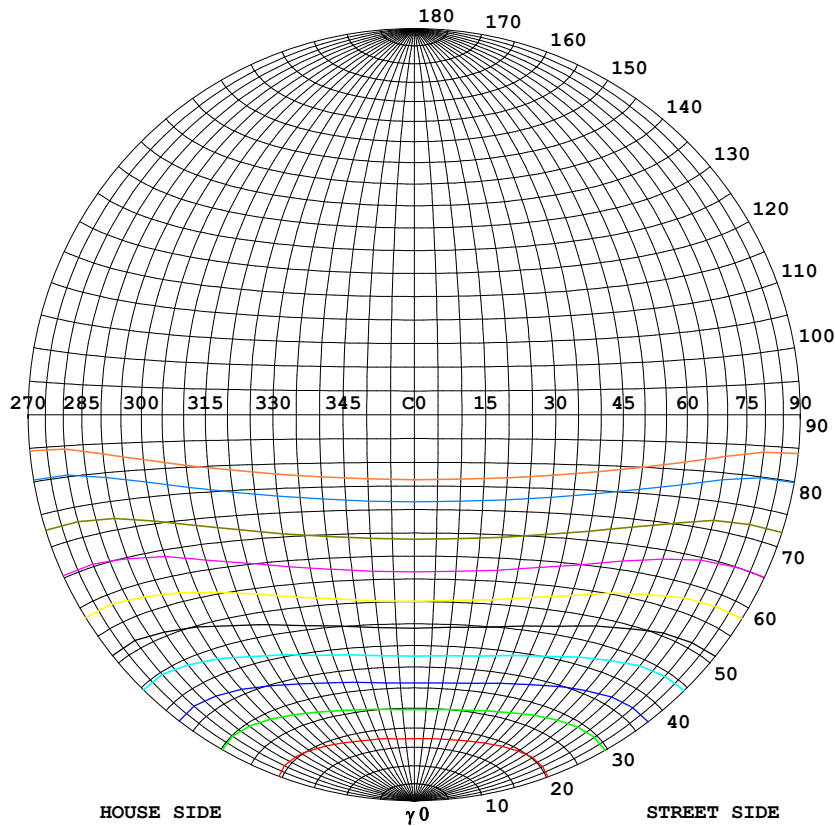


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 08 November 2022

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:

STREETLIGHT ISOCANDELA DIAGRAM

NAME: 93M20FL1040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 332 x 20 x 40	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: paralelepiped	Shielding Angle:



Classification:

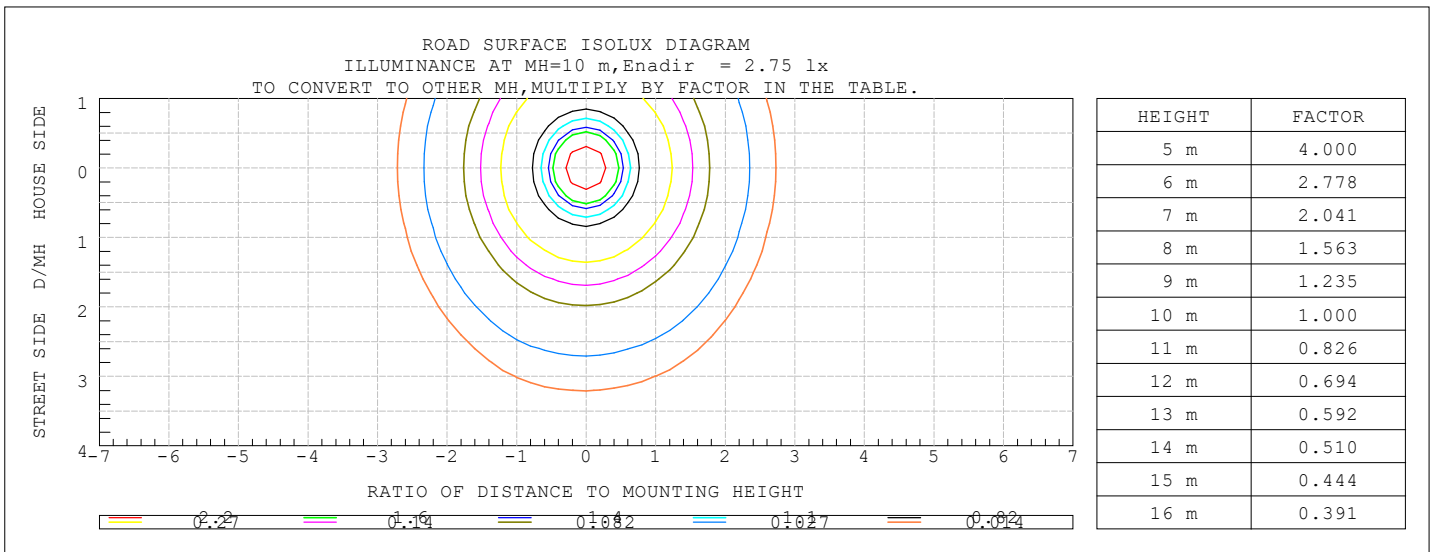
IES:Type VS - Very Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Semi-cut-off
 Max.At80:47.21cd/klm
 Max.At90:3.142cd/klm
 Max.80-90:47.21cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	274
90%	247
80%	219
70%	192
60%	164
50%	137
40%	110
30%	82
20%	55
10%	27
5%	14

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 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: HIGH
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:

ZONAL FLUX DIAGRAM

NAME: 93M20FL1040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 332 x 20 x 40	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: paralelepiped	Shielding Angle:

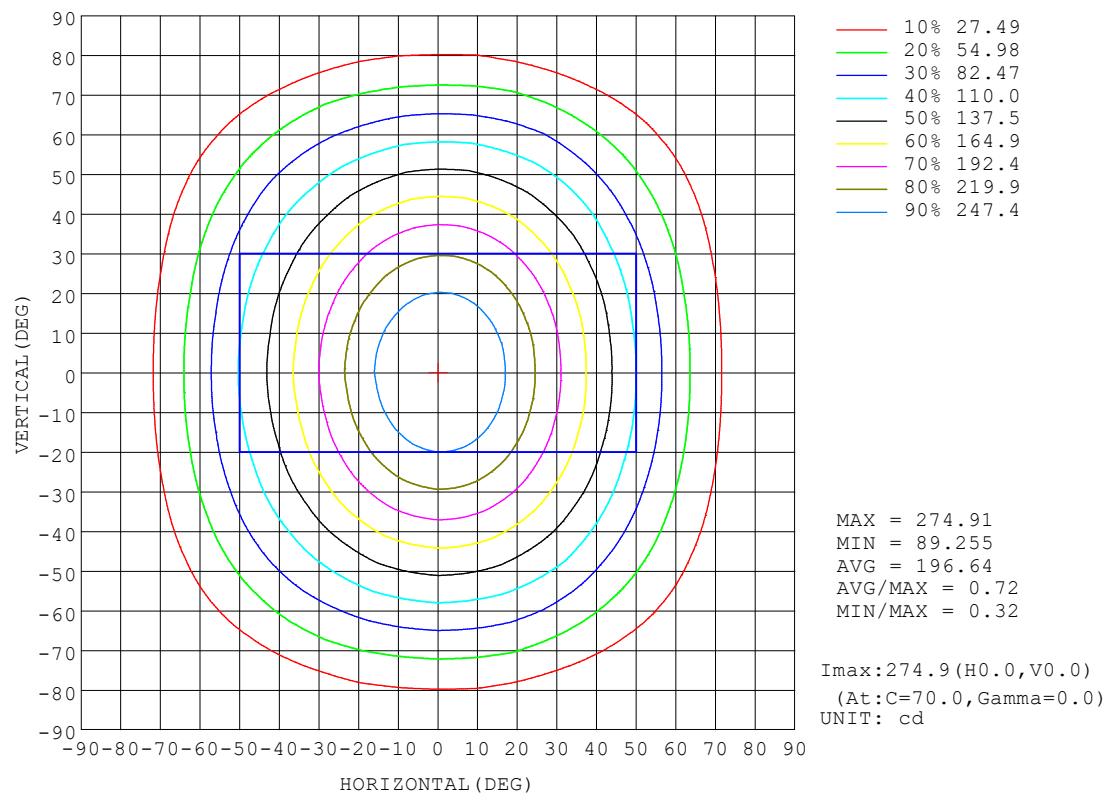
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	264.7	266.4	267.3	264.4	262.6	264.7	267.6	266.8	0- 10	25.76	25.76	4.1,4.29
20	236.4	243.1	248.0	239.3	233.0	239.9	248.5	243.7	10- 20	71.83	97.58	15.5,16.3
30	196.0	208.0	218.4	203.2	191.9	204.1	219.0	208.9	20- 30	103.4	201.0	32,33.5
40	153.4	167.5	181.9	162.6	149.8	163.5	182.6	168.6	30- 40	116.6	317.6	50.5,52.9
50	109.4	127.2	142.4	122.8	111.0	123.7	142.9	128.2	40- 50	112.7	430.3	68.4,71.7
60	68.25	85.49	102.3	85.64	70.62	86.40	103.0	86.64	50- 60	94.64	524.9	83.5,87.5
70	32.41	45.57	63.36	46.74	33.35	47.54	64.58	46.90	60- 70	65.98	590.9	94,98.5
80	4.916	11.83	26.94	11.91	4.972	12.55	28.19	12.84	70- 80	32.07	622.9	99.1,104
90	0.2524	0.3183	1.353	0.3338	0.2090	0.2966	1.885	0.2997	80- 90	5.656	628.6	100,105
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: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:

ISOCANDELA DIAGRAM

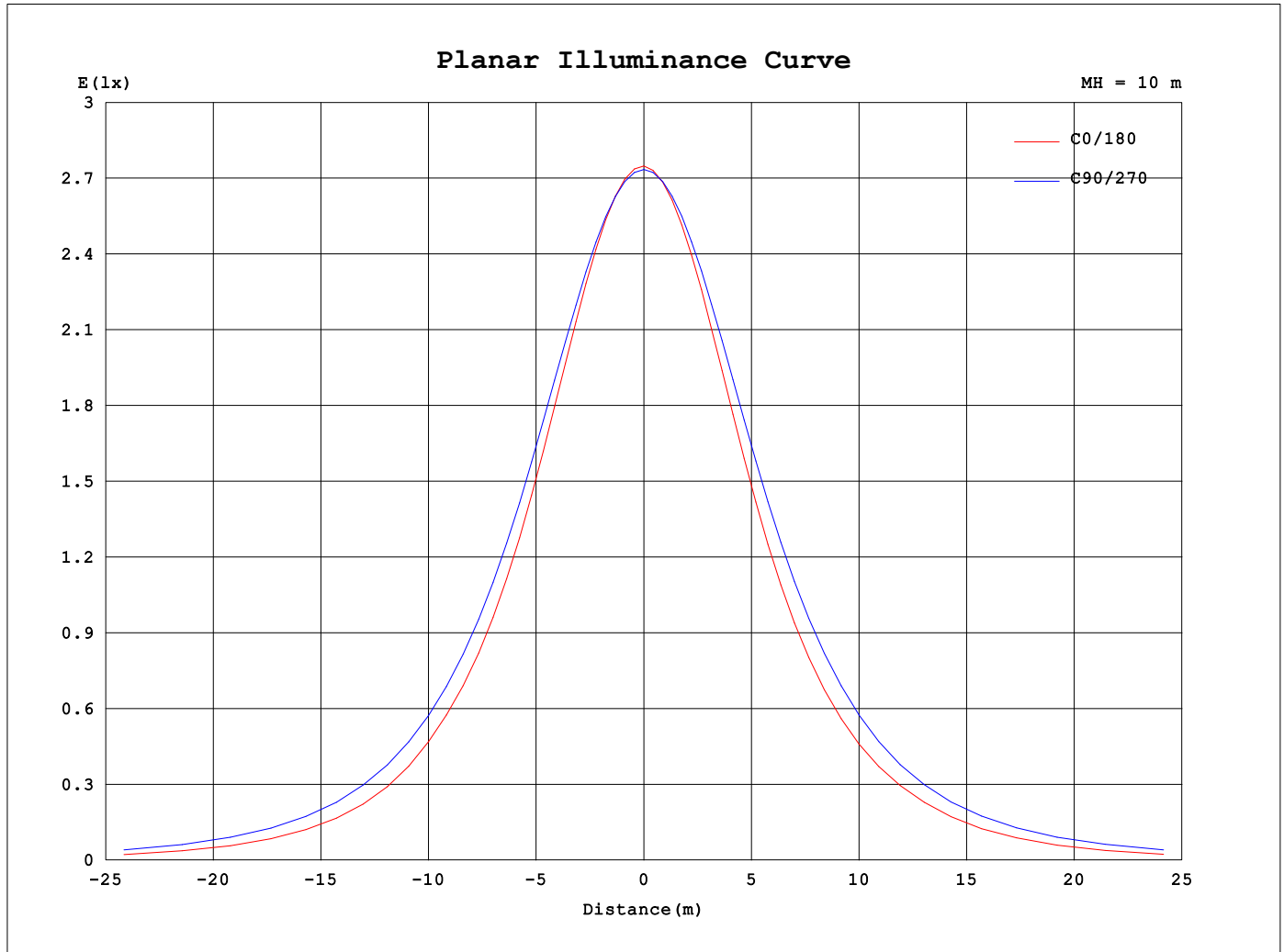
NAME: 93M20FL1040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 332 x 20 x 40	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: paralelepiped	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
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

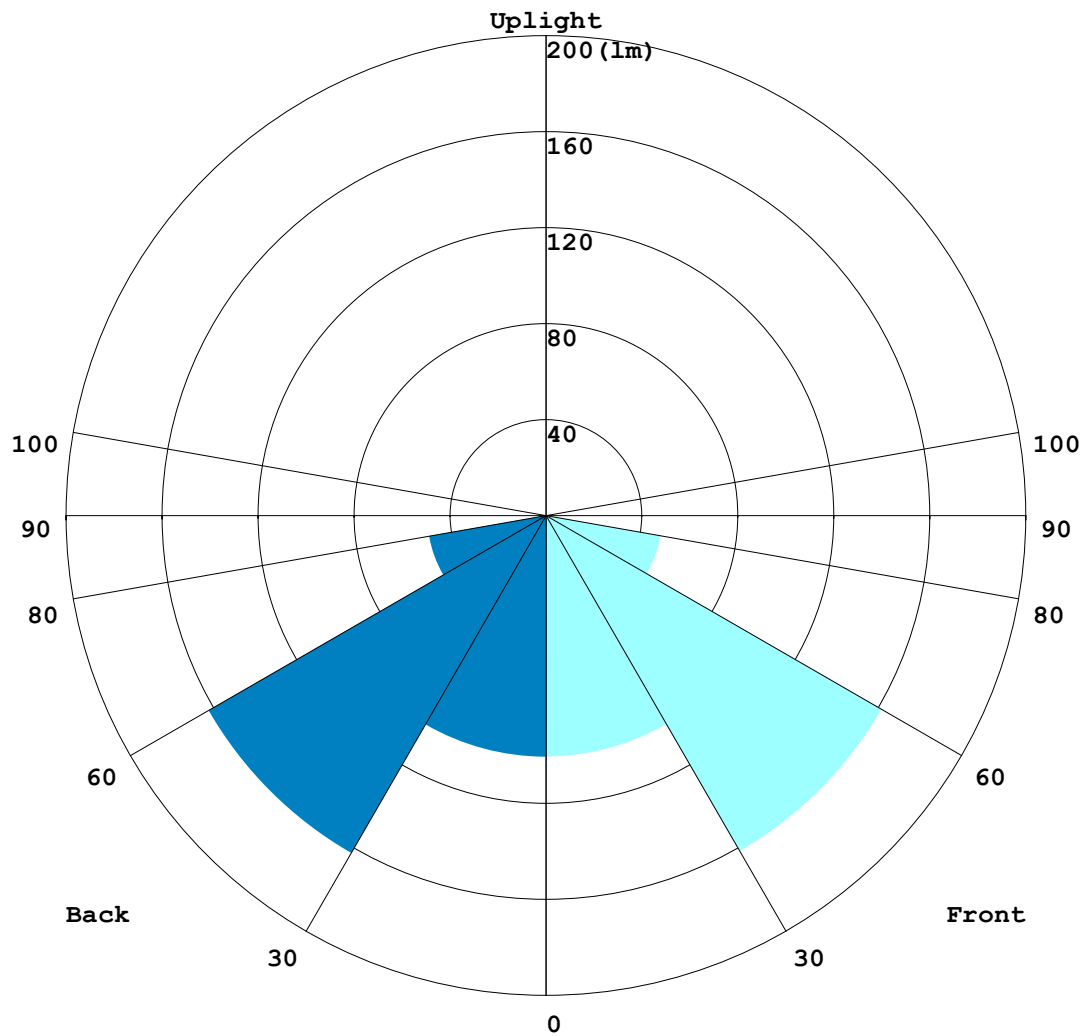


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 08 November 2022

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:

LCS REPORT

NAME: 93M20FL1040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 332 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: HIGH
 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: 93M20FL1040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 332 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)	100.42	16.0
FM - Front-Medium(30-60)	161.47	25.7
FH - Front-High(60-80)	48.526	7.7
FVH - Front-Very High(80-90)	2.7005	0.4
Total Forward Light	313.12	49.8

BL - Back-Low(0-30)	100.57	16.0
BM - Back-Medium(30-60)	162.42	25.8
BH - Back-High(60-80)	49.523	7.9
BVH - Back-Very High(80-90)	2.9552	0.5
Total Back Light	315.47	50.2

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	315.47	0	315.47
Street Side	313.12	0	313.12

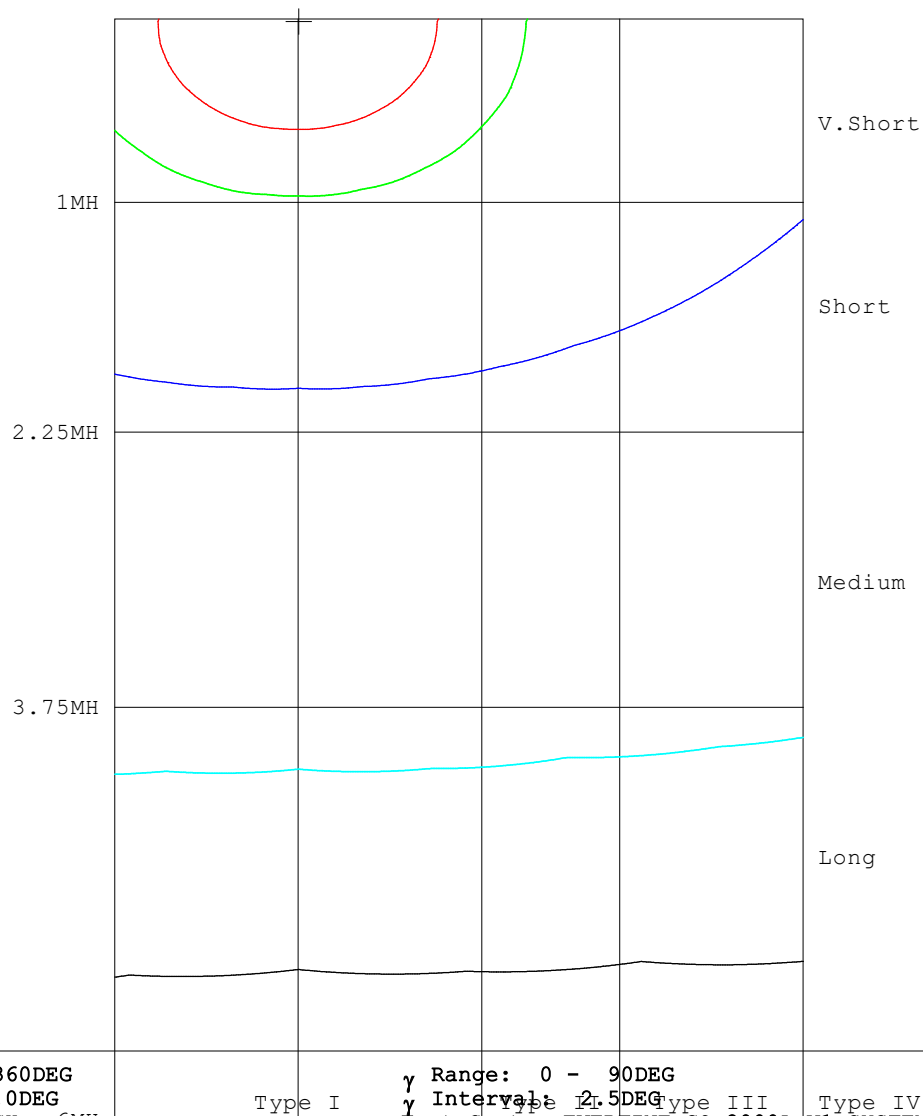
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:08 November 2022

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: 93M20FL1040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 332 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: HIGH 6MH
Temperature: 25.3°C 1MH
Operators:
Test Date: 08 November 2022
Pavement 70% 192.32
Road 20% 54.94
Remarks:
50% 137.37
5% 13.737

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A-V1 SYSTEM V2.00.456
Humidity: 65.0% 2.75MH
Test Distance: 6.265m [K=1.0000] 2.9% 8.687

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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:

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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:

```