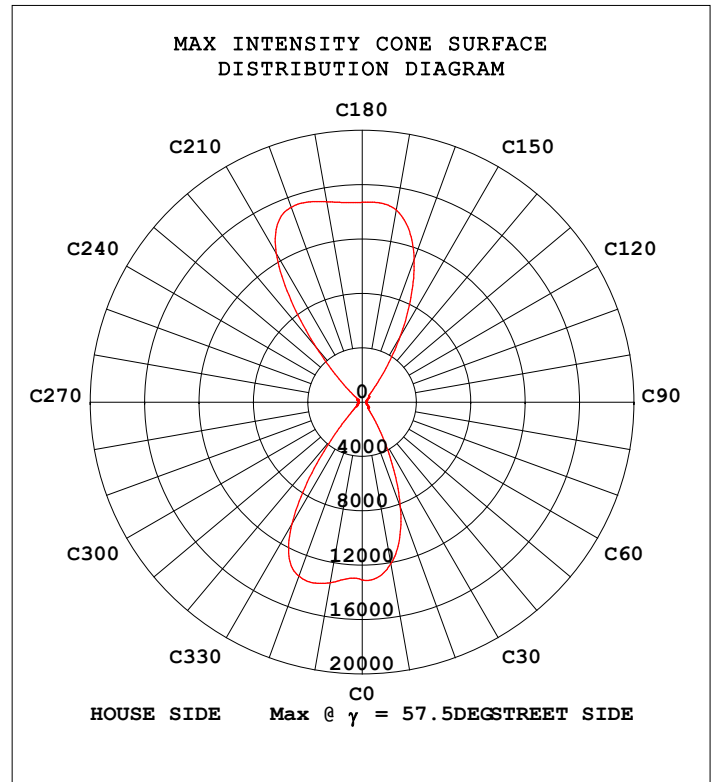
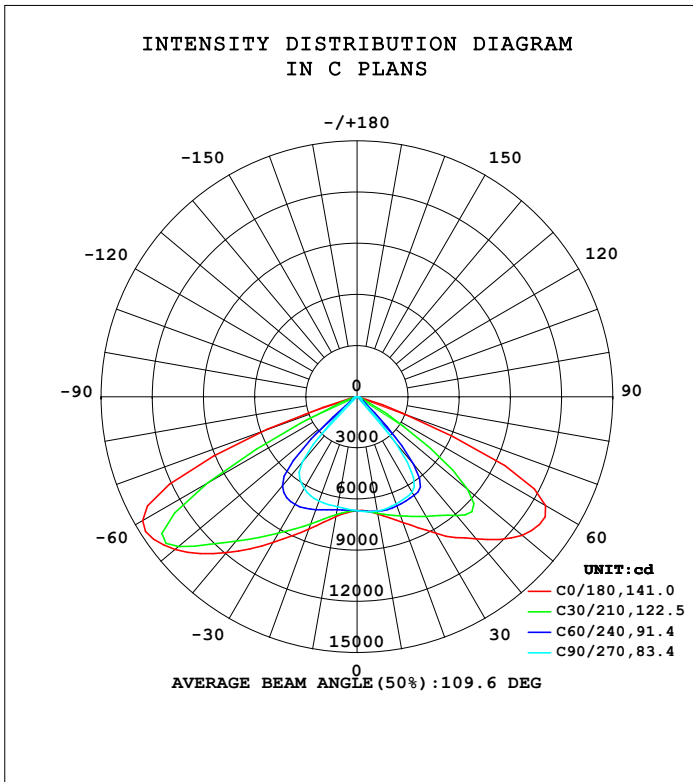


STREETLIGHT PHOTOMETRIC TEST REPORT

NAME: 98Prague200SMD	TYPE: 98Prague200SMD	WEIGHT: 1
SPEC.:	DIM.: 660 x 262x 100	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Rectangular	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	98Prague200SMD	Imax (cd)	15268	$\eta$ street_up(%)	0.0
NOMINAL POWER(W)	200	LOR(%)	104.1	$\eta$ street_down(%)	47.2
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	24991	$\eta$ house_up(%)	0.0
NOMINAL FLUX(lm)	24000	MAXIMUM @ (C, $\gamma$ )	200,57.5	$\eta$ house_down(%)	56.9
LAMPS INSIDE	1	$\eta$ up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	230	$\eta$ down(%)	104.1	SLI	17.828

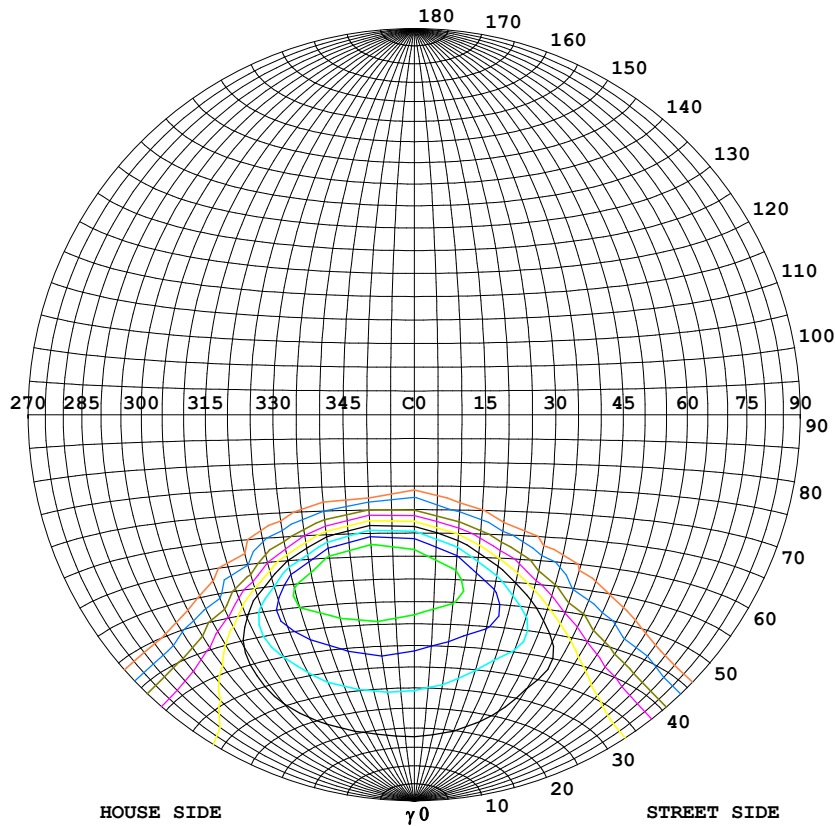


C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:22 August 2022

$\gamma$  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: 98Prague200SMD	TYPE: 98Prague200SMD	WEIGHT: 1
SPEC.:	DIM.: 660 x 262x 100	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Rectangular	Shielding Angle:



## Classification:

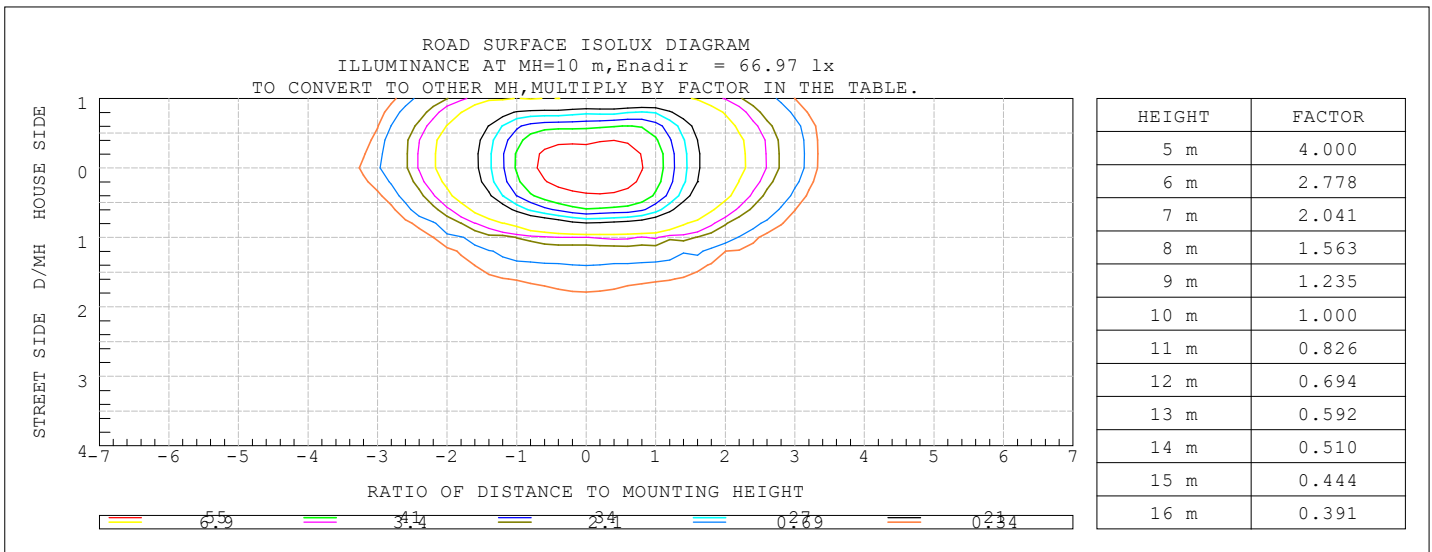
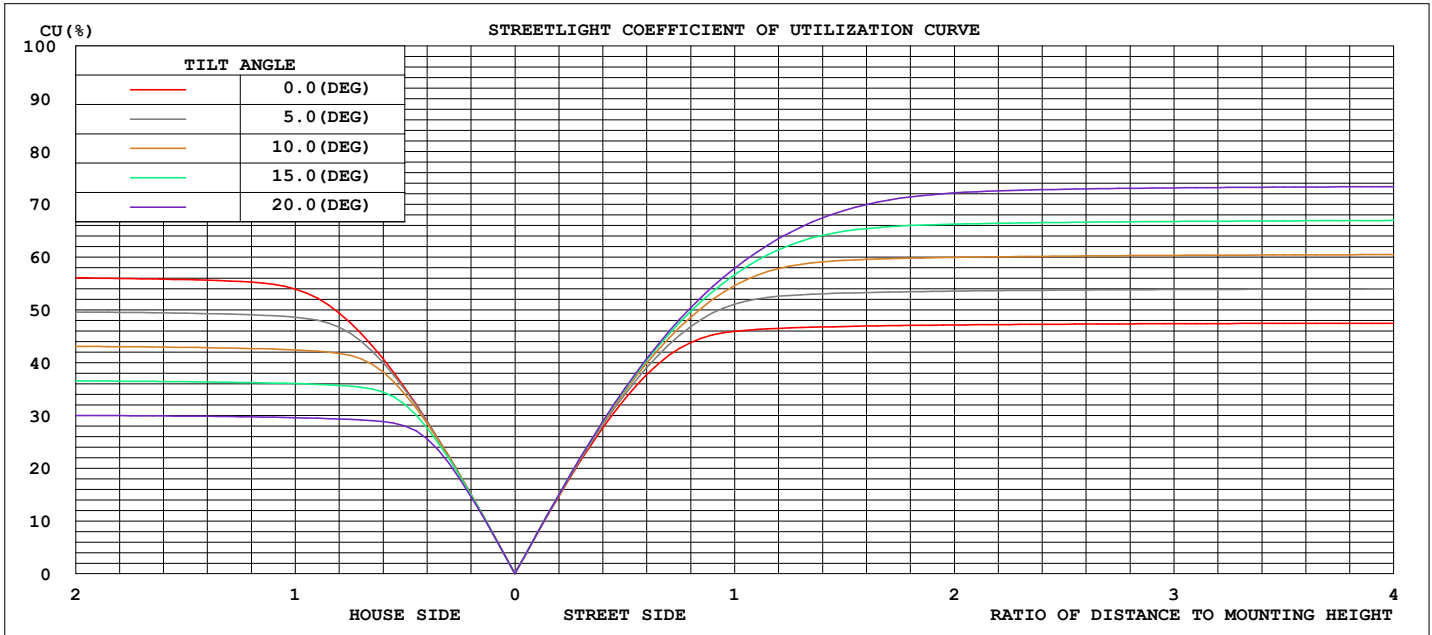
IES:Type I - Short  
CIE:Narrow - Short  
IES:Cut-off  
CIE:Full cut-off  
Max.At80:7.635cd/klm  
Max.At90:1.106cd/klm  
Max.80-90:7.635cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I <sub>max</sub> =100%	15268
90%	13741
80%	12215
70%	10688
60%	9161
50%	7634
40%	6107
30%	4580
20%	3054
10%	1527
5%	763

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:22 August 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: 22 August 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: 98Prague200SMD	TYPE: 98Prague200SMD	WEIGHT: 1
SPEC.:	DIM.: 660 x 262x 100	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Rectangular	Shielding Angle:

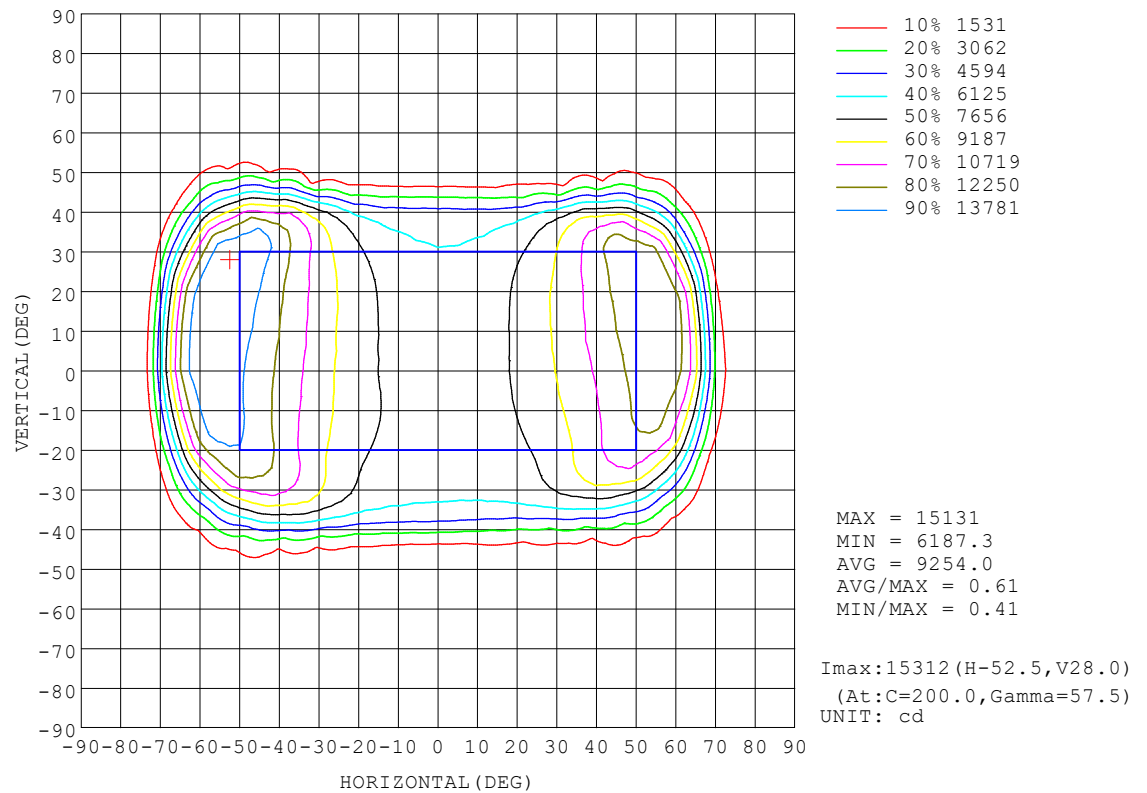
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	698.0	687.1	680.2	706.9	712.9	686.9	655.2	674.2	0- 10	647.6	647.6	2.59,2.7
20	784.7	711.0	669.9	757.4	825.6	749.9	651.6	724.8	10- 20	2020	2667	10.7,11.1
30	924.4	727.5	645.8	798.1	985.9	832.4	620.4	793.7	20- 30	3536	6203	24.8,25.8
40	1087	728.3	351.8	859.8	1194	924.6	499.5	852.9	30- 40	5084	11287	45.2,47
50	1264	317.9	43.51	471.5	1394	877.1	51.99	725.5	40- 50	5696	16983	68,70.8
60	1277	59.46	30.01	67.67	1451	155.4	31.32	96.92	50- 60	4975	21958	87.9,91.5
70	284.9	27.96	22.30	32.91	558.9	30.10	22.43	31.03	60- 70	2605	24563	98.3,102
80	11.49	9.829	13.44	11.80	12.29	13.27	14.52	11.05	70- 80	363.4	24927	99.7,104
90	2.648	1.110	0.2154	0.8968	1.717	0.4012	0.2702	0.5734	80- 90	64.02	24991	100,104
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:X10cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:22 August 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

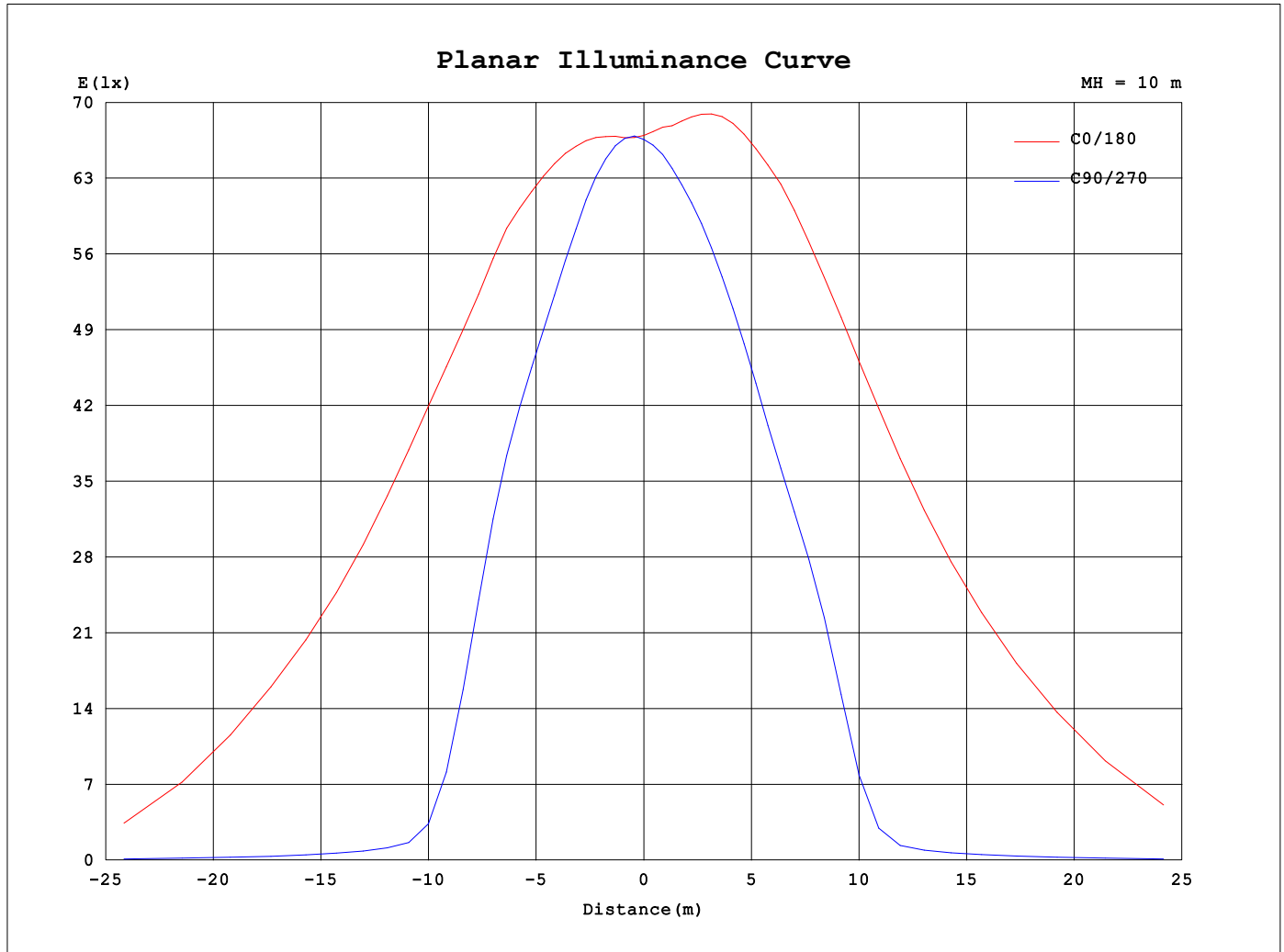
NAME: 98Prague200SMD	TYPE: 98Prague200SMD	WEIGHT: 1
SPEC.:	DIM.: 660 x 262x 100	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Rectangular	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:22 August 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

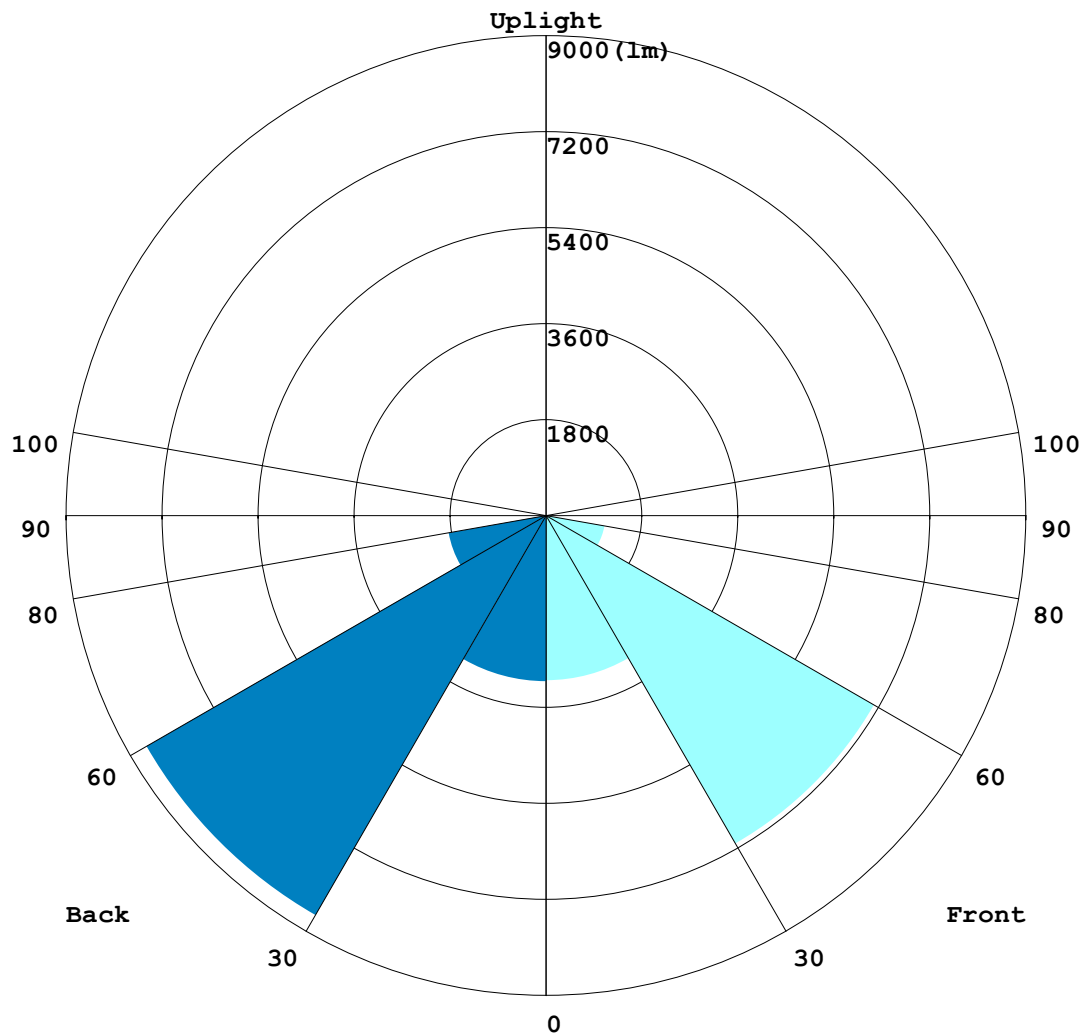


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 22 August 2022

$\gamma$  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: 98Prague200SMD	TYPE: 98Prague200SMD	WEIGHT: 1
SPEC.:	DIM.: 660 x 262x 100	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Rectangular	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: 22 August 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: 98Prague200SMD	TYPE: 98Prague200SMD	WEIGHT: 1
SPEC.:	DIM.: 660 x 262x 100	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Rectangular	Shielding Angle:

#### IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	3092.9	12.4
FM - Front-Medium(30-60)	7102	28.4
FH - Front-High(60-80)	1114	4.5
FVH - Front-Very High(80-90)	30.392	0.1
Total Forward Light	11339	45.4

BL - Back-Low(0-30)	3110.5	12.4
BM - Back-Medium(30-60)	8652.8	34.6
BH - Back-High(60-80)	1854.7	7.4
BVH - Back-Very High(80-90)	33.626	0.1
Total Back Light	13652	54.6

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	B5-U0-G3
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	13652	0	13652
Street Side	11339	0	11339

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:22 August 2022

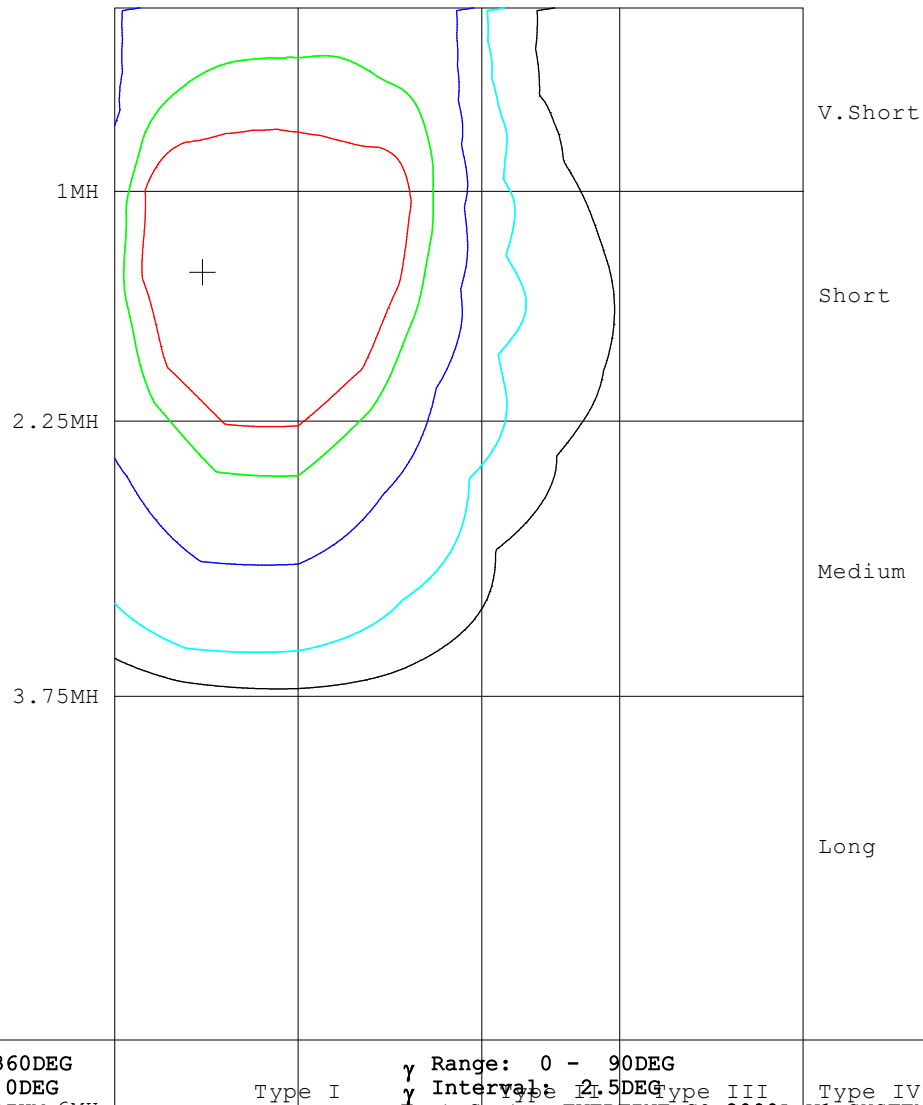
γ Range: 0 - 90DEG  
γ Interval: 2.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.265m [K=1.0000]  
Remarks:



ROAD ISOCANDELA REPORT

NAME: 98Prague200SMD	TYPE: 98Prague200SMD	WEIGHT: 1
SPEC.:	DIM.: 660 x 262x 100	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Rectangular	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: 22 August 2022

γ Range: 0 - 90DEG  
γ Interval: 2.5DEG

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

Humidity: 65.0% 1MH 2.75MH

Test Distance: 6.265m [K=1.0000]

Remarks:

70% 10737  
Pavement

Road 20% 5007.8

50% 7669.6 5% 766.96

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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:

```