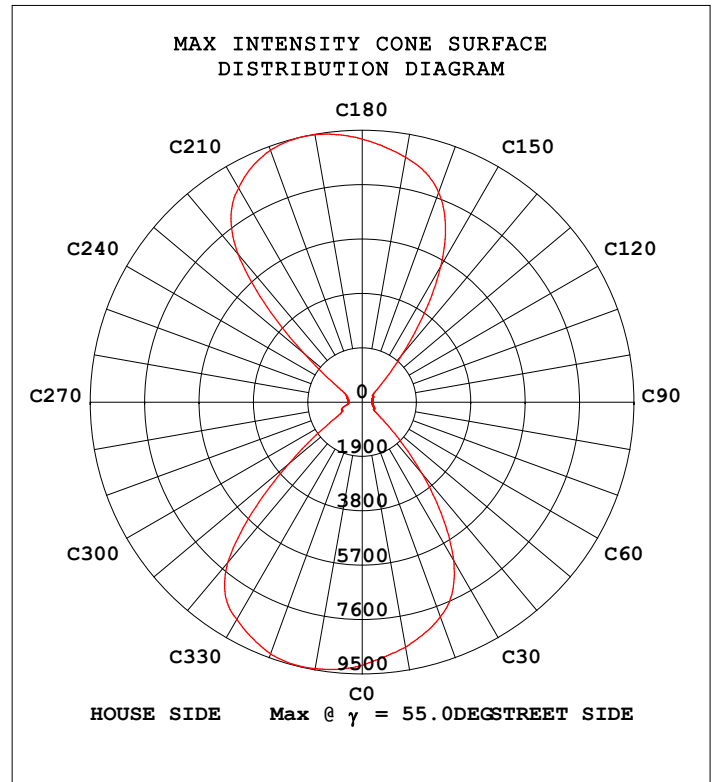
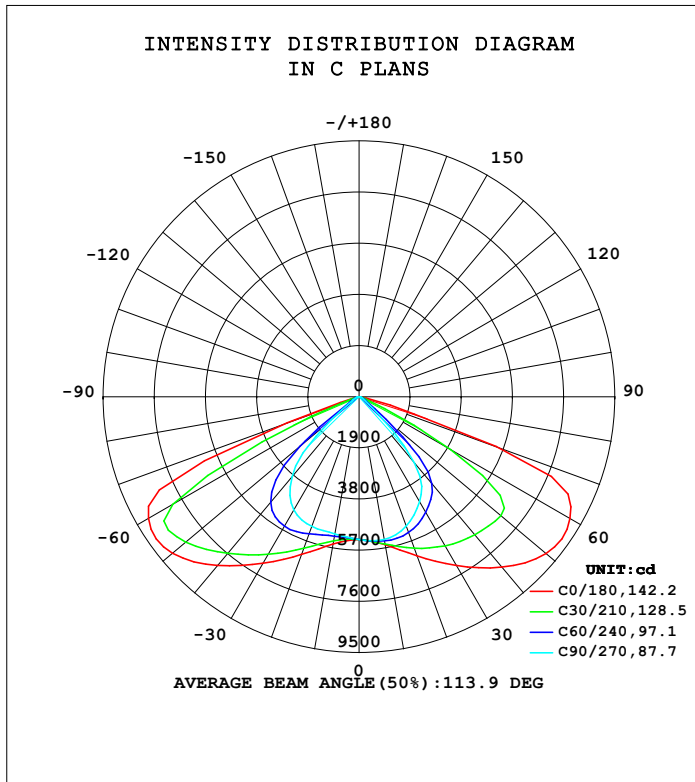


STREETLIGHT PHOTOMETRIC TEST REPORT

NAME: 98Prague150/W	TYPE: 98Prague150/W	WEIGHT: 1
SPEC.:	DIM.: 610 x 252 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Rectangular	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	98Prague150/W	Imax (cd)	9493	η street_up(%)	0.0
NOMINAL POWER(W)	150	LOR(%)	107.8	η street_down(%)	48.4
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	19403	η house_up(%)	0.0
NOMINAL FLUX(lm)	18000	MAXIMUM @ (C, γ)	190,55.0	η house_down(%)	59.4
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	230	η down(%)	107.8	SLI	18.170

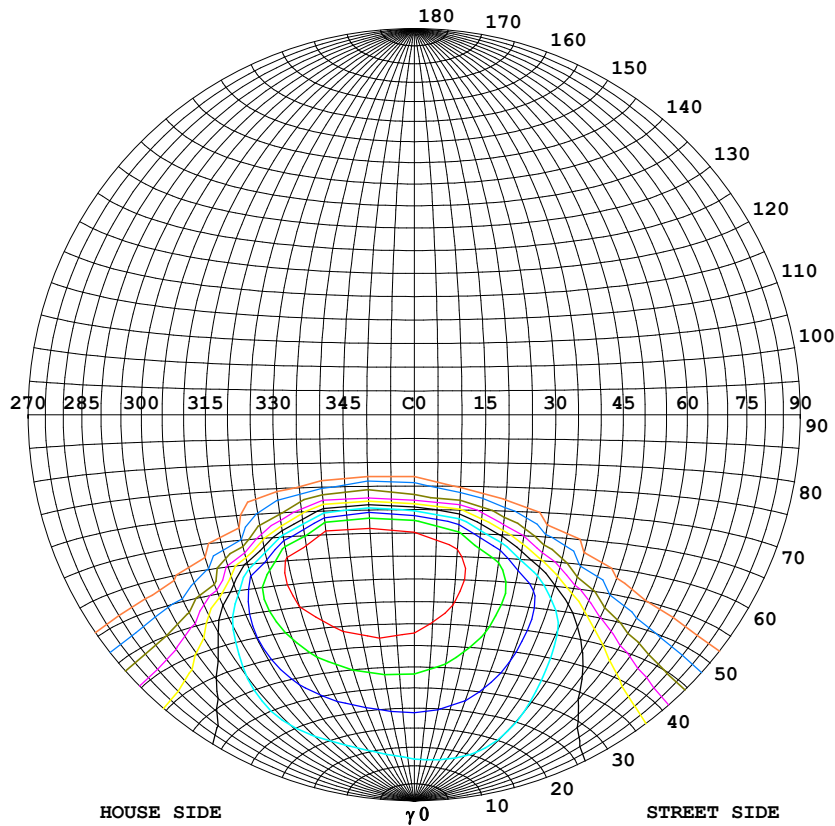


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:19 August 2022

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:

STREETLIGHT ISOCANDELA DIAGRAM

NAME: 98Prague150/W	TYPE: 98Prague150/W	WEIGHT: 1
SPEC.:	DIM.: 610 x 252 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Rectangular	Shielding Angle:



Classification:

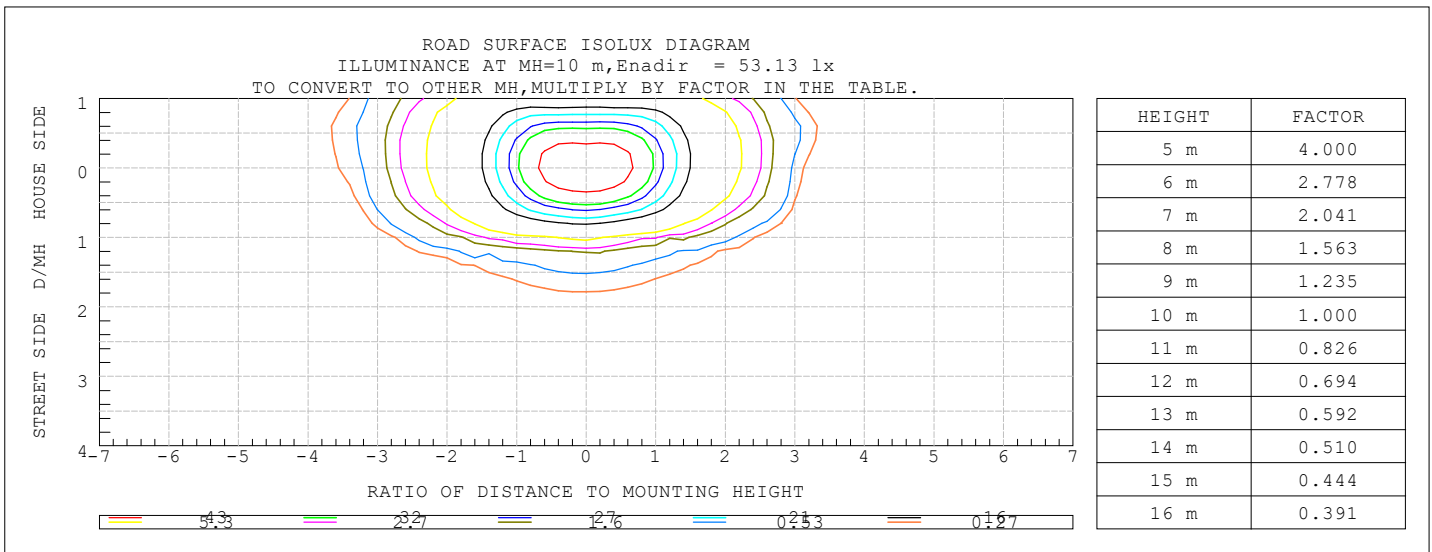
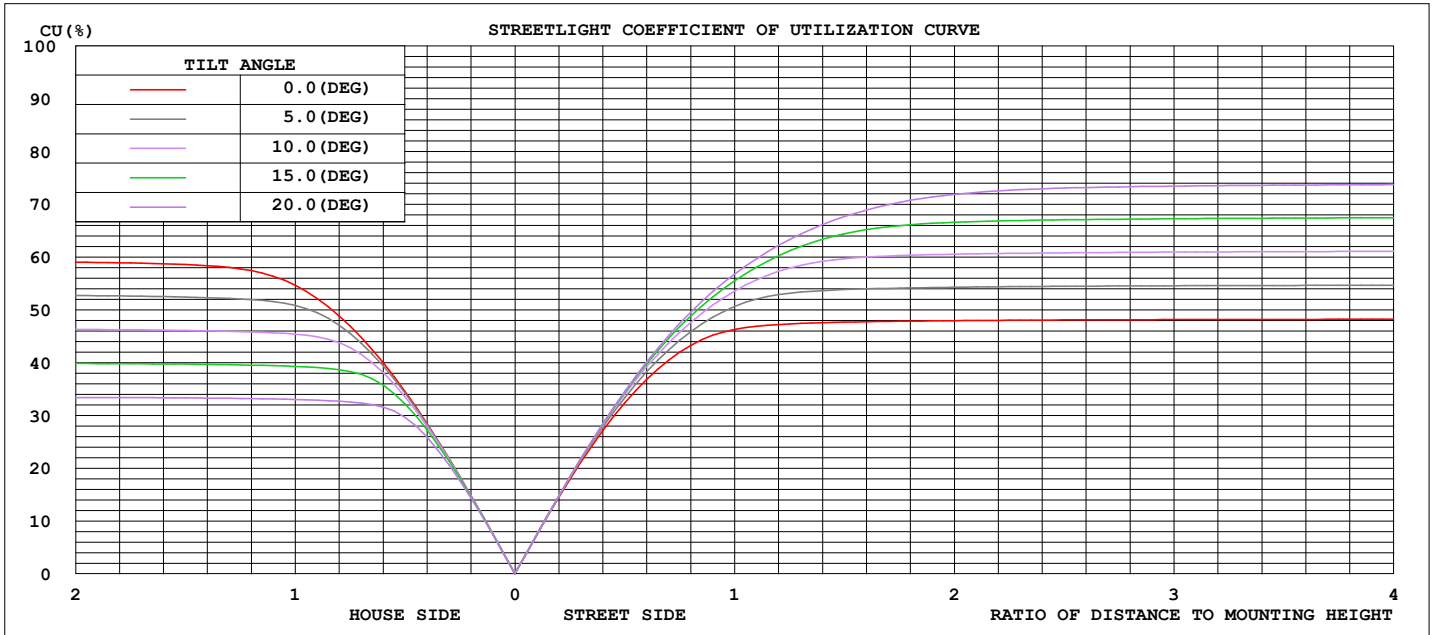
IES:Type V - Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:8.177cd/klm
 Max.At90:1.150cd/klm
 Max.80-90:8.177cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	9493
90%	8544
80%	7595
70%	6645
60%	5696
50%	4747
40%	3797
30%	2848
20%	1899
10%	949
5%	475

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:
 Test Date:19 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: 19 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: 98Prague150/W	TYPE: 98Prague150/W	WEIGHT: 1
SPEC.:	DIM.: 610 x 252 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Rectangular	Shielding Angle:

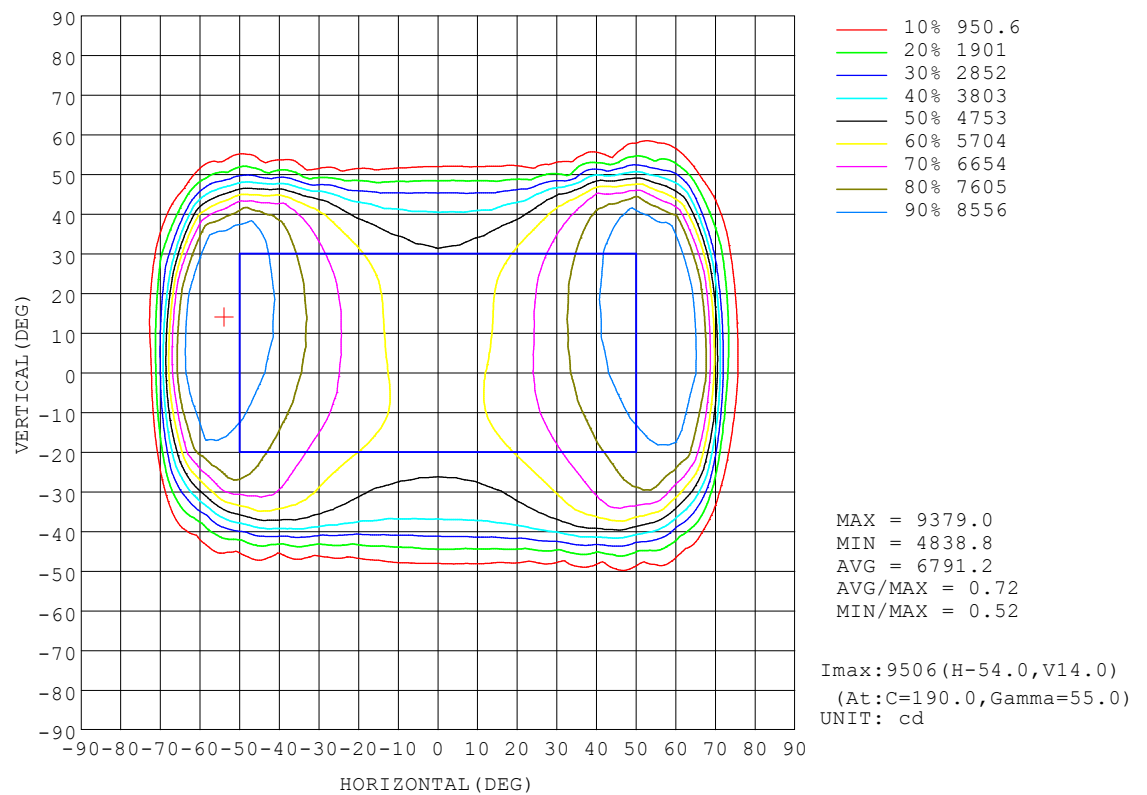
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	5581	5501	5378	5497	5554	5347	5174	5355	0- 10	512.3	512.3	2.64,2.85
20	6286	5679	5118	5674	6230	5709	5125	5712	10- 20	1578	2091	10.8,11.6
30	7229	5653	4498	5584	7136	6176	4848	6219	20- 30	2695	4786	24.7,26.6
40	8258	5418	3210	5288	8172	6445	3876	6567	30- 40	3729	8514	43.9,47.3
50	9057	4074	658.6	3425	9046	6231	1367	6437	40- 50	4252	12766	65.8,70.9
60	9044	593.1	239.9	437.8	9032	1996	314.1	3019	50- 60	3796	16562	85.4,92
70	5415	202.1	116.9	182.7	2841	239.7	143.5	288.2	60- 70	2412	18974	97.8,105
80	137.0	67.27	53.09	54.72	89.83	75.44	75.26	92.86	70- 80	390.0	19364	99.8,108
90	18.07	8.936	1.786	9.528	16.74	4.367	7.074	4.259	80- 90	39.53	19403	100,108
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:19 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:

ISOCANDELA DIAGRAM

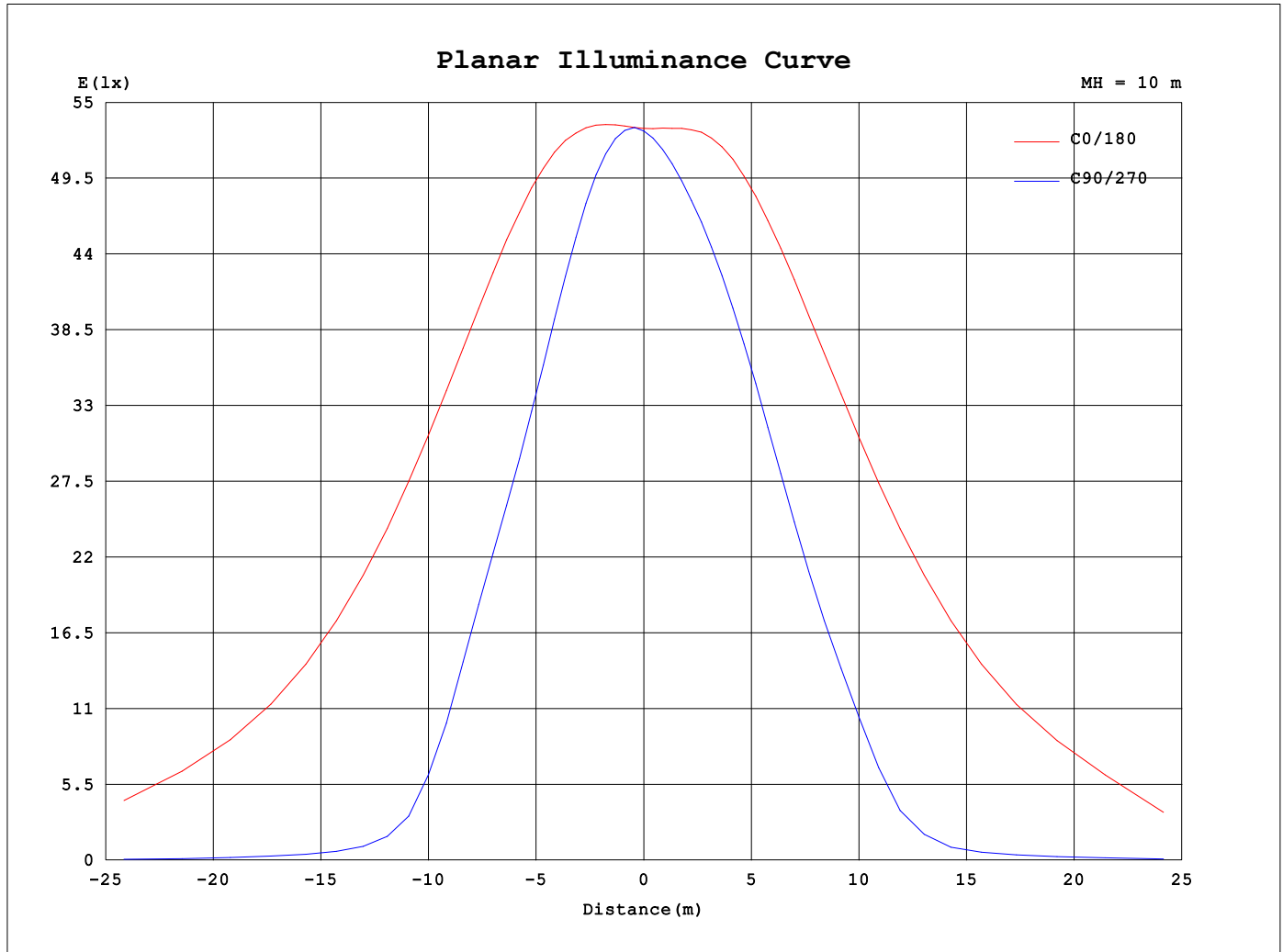
NAME: 98Prague150/W	TYPE: 98Prague150/W	WEIGHT: 1
SPEC.:	DIM.: 610 x 252 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Rectangular	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:19 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

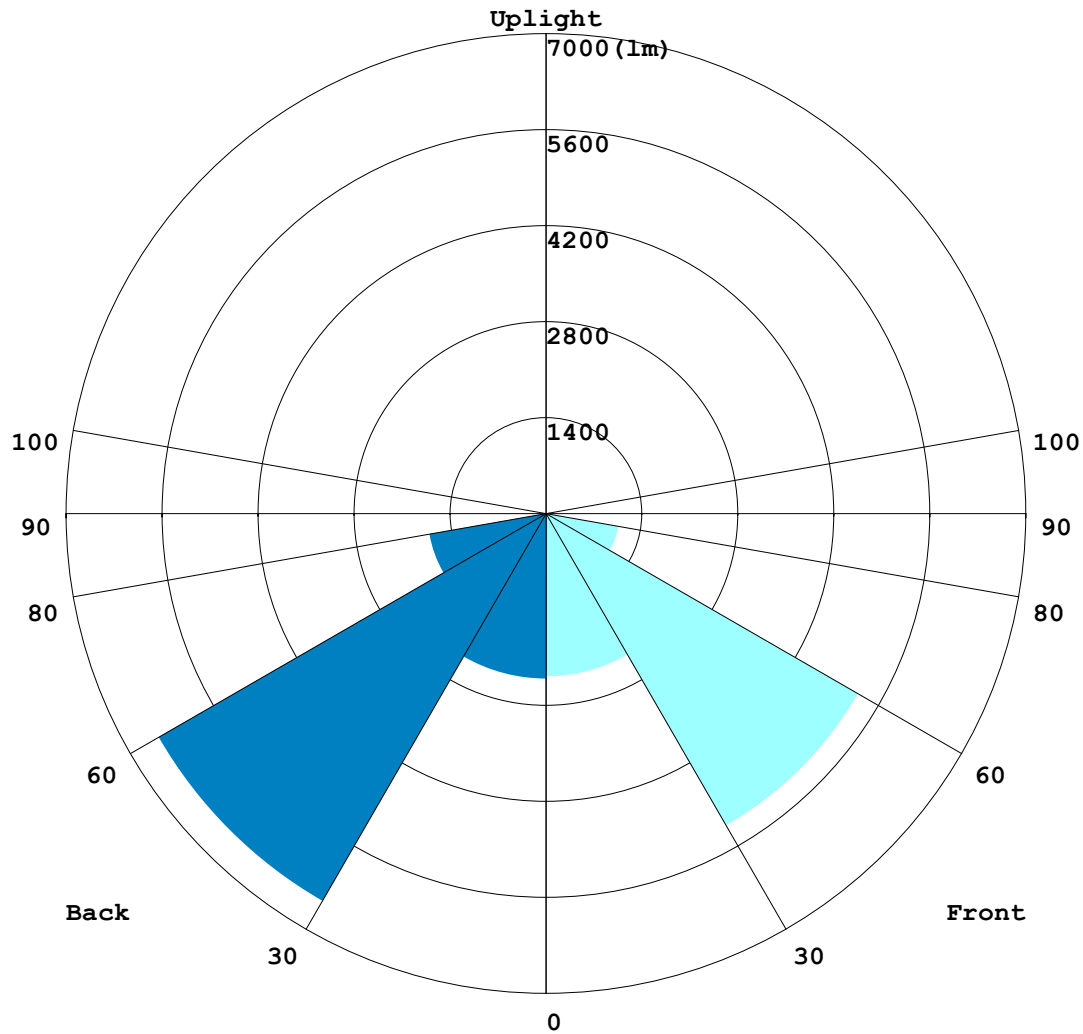


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 19 August 2022

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:

LCS REPORT

NAME: 98Prague150/W	TYPE: 98Prague150/W	WEIGHT: 1
SPEC.:	DIM.: 610 x 252 x 90	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: 19 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: 98Prague150/W	TYPE: 98Prague150/W	WEIGHT: 1
SPEC.:	DIM.: 610 x 252 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Rectangular	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	2375.5	12.2
FM - Front-Medium(30-60)	5253	27.1
FH - Front-High(60-80)	1073.9	5.5
FVH - Front-Very High(80-90)	16.707	0.1
Total Forward Light	8719.2	44.9

BL - Back-Low(0-30)	2410.1	12.4
BM - Back-Medium(30-60)	6523.4	33.6
BH - Back-High(60-80)	1727.7	8.9
BVH - Back-Very High(80-90)	22.827	0.1
Total Back Light	10684	55.1

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	B4-U0-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	10684	0	10684
Street Side	8719.2	0	8719.2

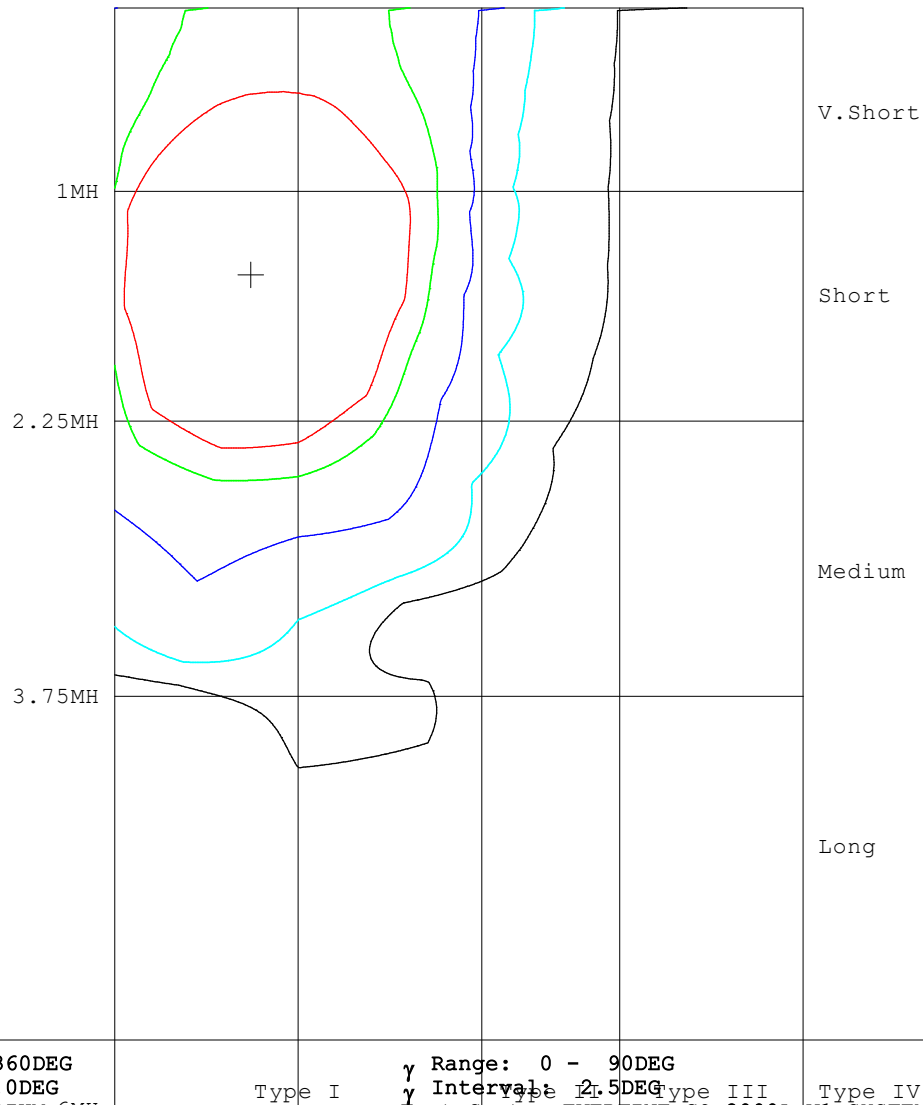
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:19 August 2022

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: 98Prague150/W	TYPE: 98Prague150/W	WEIGHT: 1
SPEC.:	DIM.: 610 x 252 x 90	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: 19 August 2022

70% 6659.8
Pavement

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]

Remarks:

50% 4757 5% 475.7

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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:

```