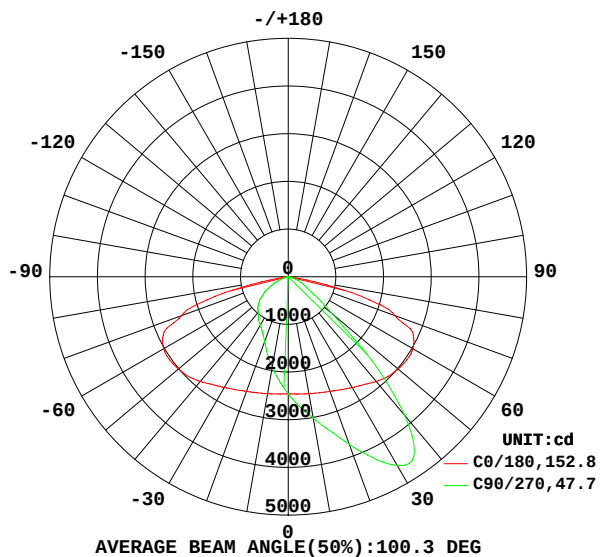
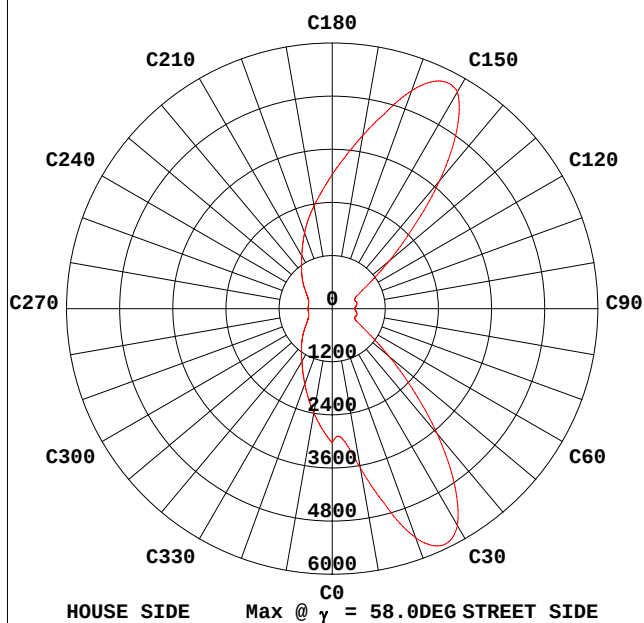


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:229.9V I:0.3982A P:90.18W PF:0.9852 Lamp Flux:10024x1 lm		
NAME: ST09-090	TYPE:90W	WEIGHT:
SPEC.:4000K Ra70 R09601	DIM.: 0.533*0.283*0.115	SERIAL No.:
MFR.:	SUR.:0.18*0.18	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 111.16 lm/W			
MODEL	ST09-090	I _{max} (cd)	5655	η street_up(%)	0.0
NOMINAL POWER(W)	90	LOR(%)	100.0	η street_down(%)	68.2
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	10024	η house_up(%)	0.0
NOMINAL FLUX(lm)	10024	MAXIMUM @(C,γ)	30,58.0	η house_down(%)	31.8
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	
TEST VOLTAGE(V)	230	η down(%)	100.0	SLI	

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

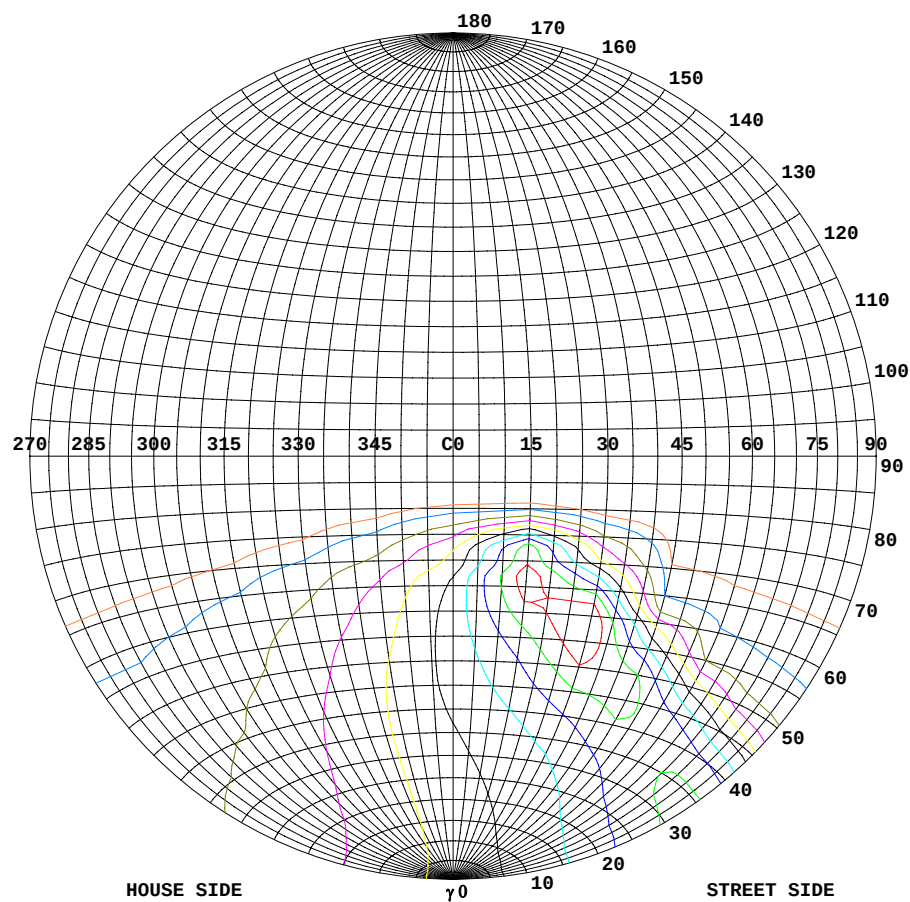
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-12-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.470m [K=1.0000]
 Remarks:

Checker:
 Note: SLI:Specific Luminaire Index

Assessor:

STREETLIGHT ISOCANDELA DIAGRAM



Classification:
IES:Type II - Short
CIE:Narrow - Short
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:48.62cd/klm
Max.At90:0cd/klm
Max.80-90:48.62cd/klm
NRB 5101:Semi limited[29.5%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	5655
90%	5090
80%	4524
70%	3959
60%	3393
50%	2828
40%	2262
30%	1697
20%	1131
10%	566
5%	283

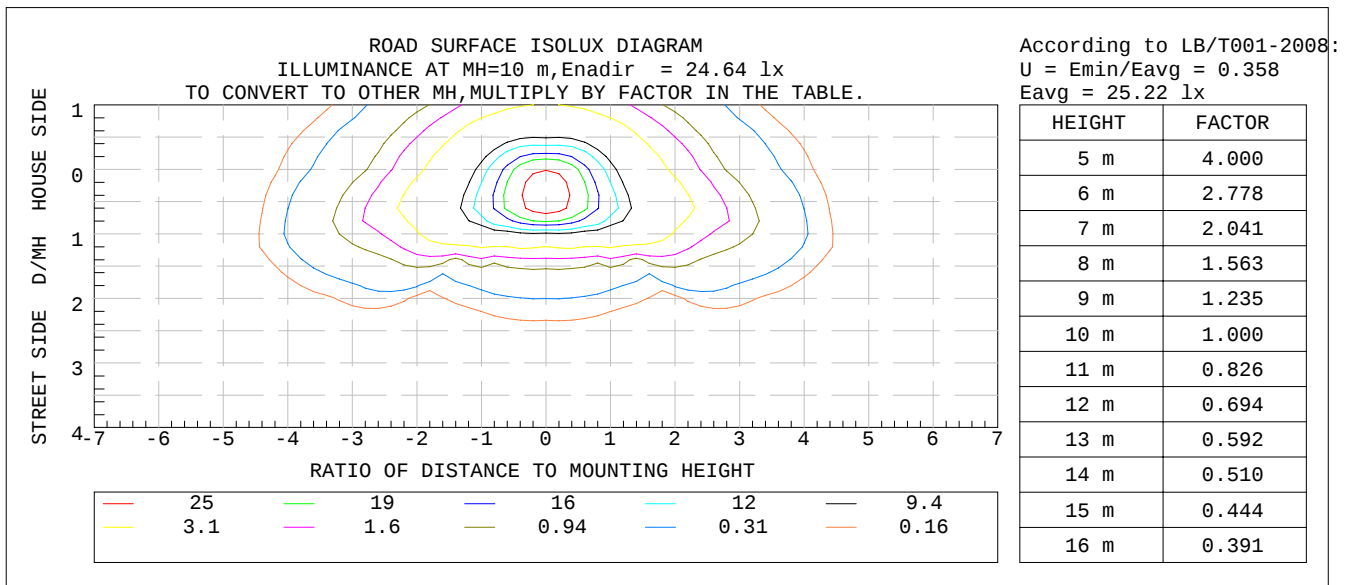
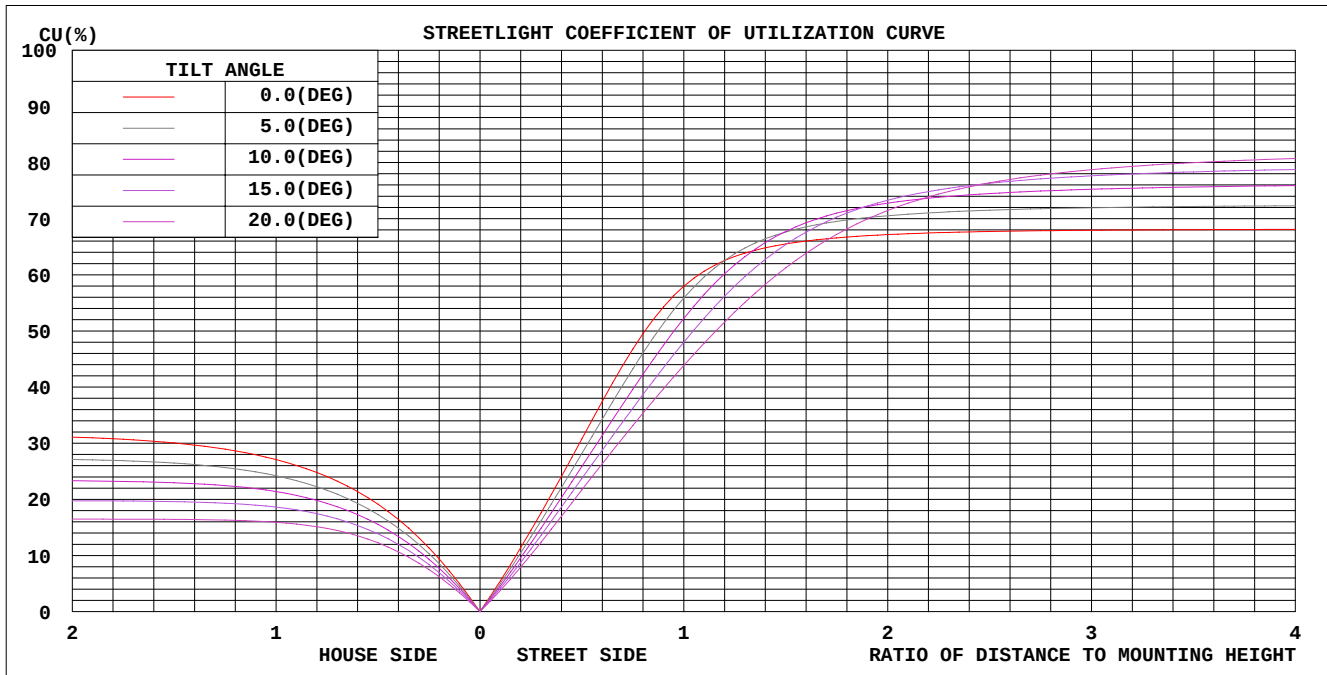
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2016-12-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.470m [K=1.0000]
Remarks:

Checker:

Assessor:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2016-12-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 9.470m [K=1.0000]
Remarks:

Checker:

Assessor:

ZONAL FLUX DIAGRAM

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	ϕ zone	ϕ total	%lum, lamp
10	2492	2840	3007	2840	2492	2112	1934	2112	0- 10	235.9	235.9	2.35, 2.35
20	2560	3220	3741	3220	2560	1850	1450	1850	10- 20	713.5	949.4	9.47, 9.47
30	2683	3689	4573	3689	2683	1651	1176	1651	20- 30	1224	2173	21.7, 21.7
40	2869	4415	3804	4415	2869	1453	979.1	1453	30- 40	1753	3926	39.2, 39.2
50	3007	4502	1189	4502	3007	1171	790.6	1171	40- 50	2016	5942	59.3, 59.3
60	3018	1965	432.5	1965	3018	881.8	483.4	881.8	50- 60	1878	7820	78, 78
70	2384	306.1	186.1	306.1	2384	322.4	167.5	322.4	60- 70	1494	9315	92.9, 92.9
80	390.7	47.59	7.091	47.59	390.7	47.41	2.476	47.41	70- 80	680.9	9995	99.7, 99.7
90	0	0	0	0	0	0	0	0	80- 90	28.39	10024	100, 100
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		

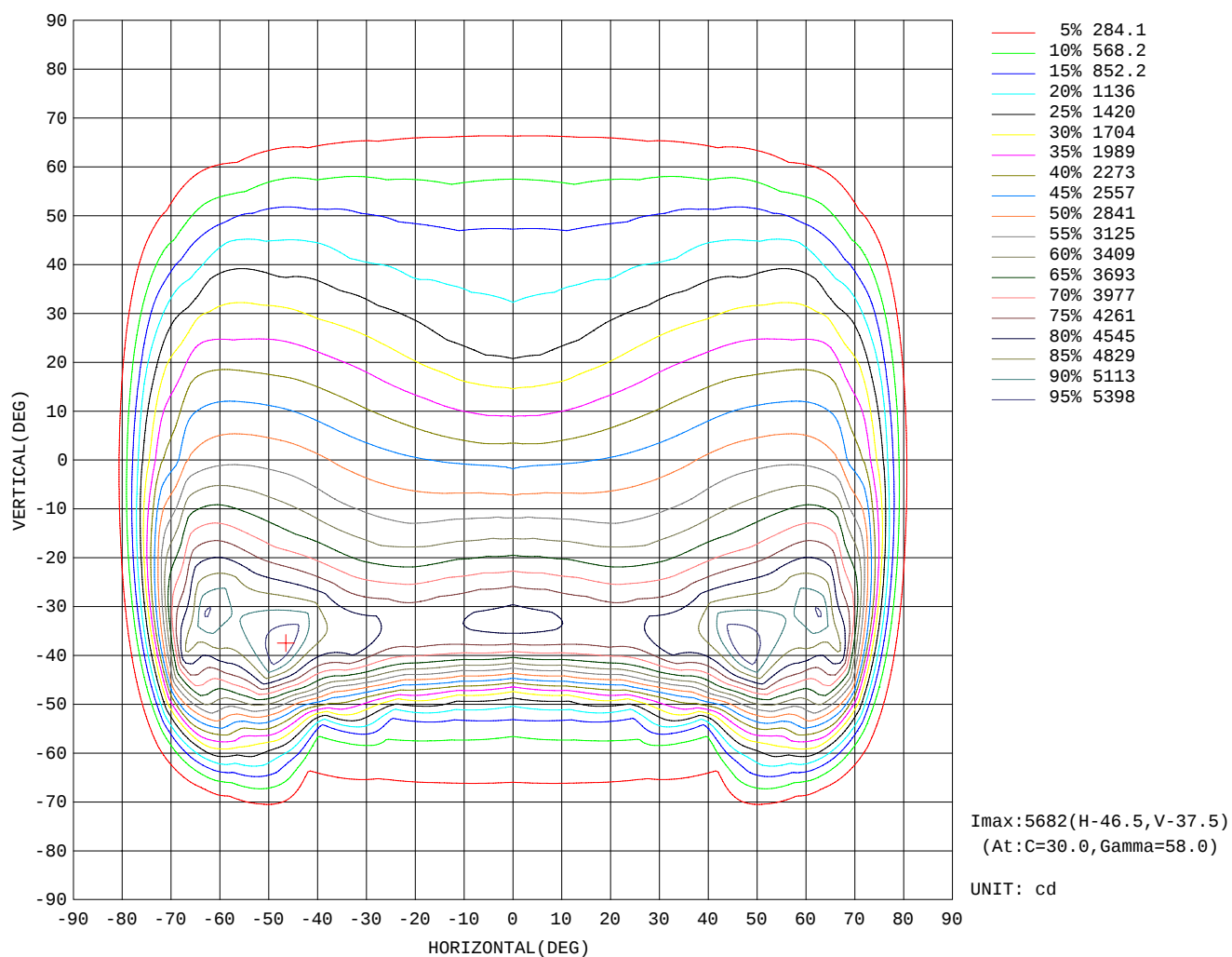
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2016-12-06

Checker:

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.295
 Humidity: 65.0%
 Test Distance: 9.470m [K=1.0000]
 Remarks:

Assessor:

ISOCANDELA DIAGRAM



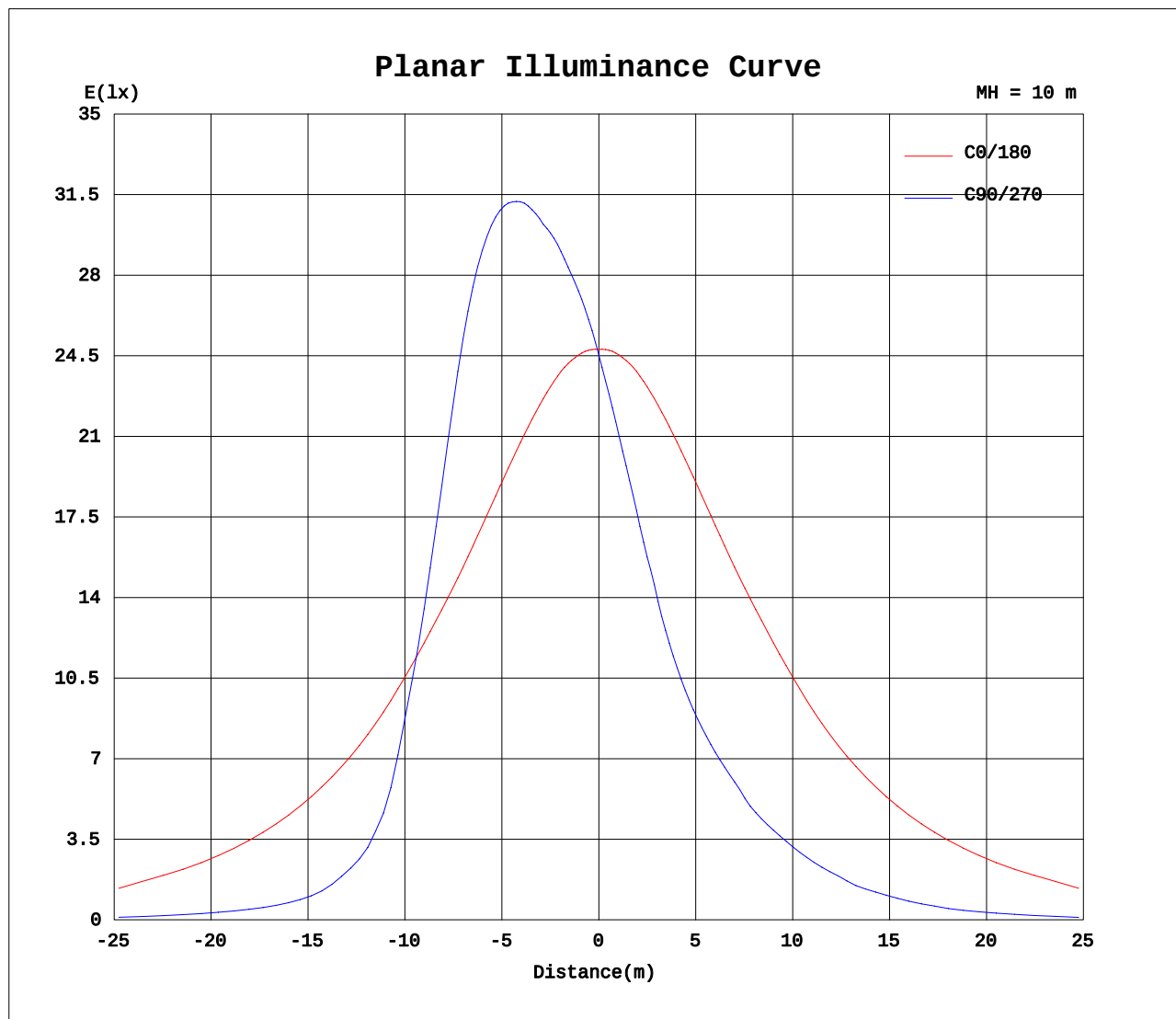
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2016-12-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 9.470m [K=1.0000]
Remarks:

Checker:

Assessor:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2016-12-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 9.470m [K=1.0000]
Remarks:

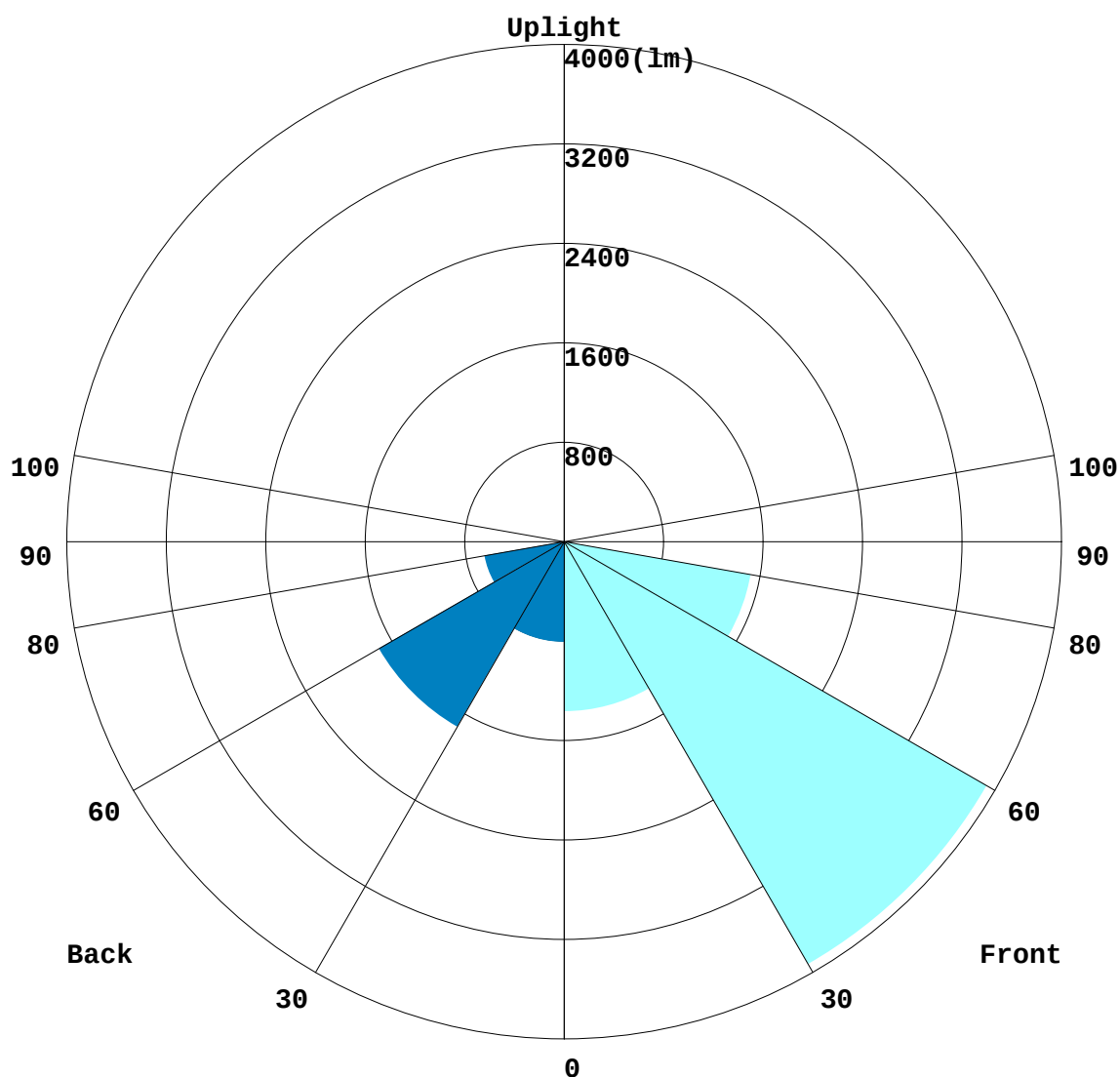
Checker:

Assessor:

LCS REPORT

Test:U:229.9V I:0.3982A P:90.18W PF:0.9852 Lamp Flux:10024x1 lm		
NAME: ST09-090	TYPE:90W	WEIGHT:
SPEC.:4000K Ra70 R09601	DIM.: 0.533*0.283*0.115	SERIAL No.:
MFR.:	SUR.:0.18*0.18	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-12-06

Checker:

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.470m [K=1.0000]
 Remarks:

Assessor:

BUG REPORT

Test:U:229.9V I:0.3982A P:90.18W PF:0.9852 Lamp Flux:10024x1 lm		
NAME: ST09-090	TYPE:90W	WEIGHT:
SPEC.:4000K Ra70 R09601	DIM.: 0.533*0.283*0.115	SERIAL No.:
MFR.:	SUR.:0.18*0.18	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1365.3	13.6
FM - Front-Medium(30-60)	3926.2	39.2
FH - Front-High(60-80)	1525	15.2
FVH - Front-Very High(80-90)	17.79	0.2
Total Forward Light	6834.3	68.2

BL - Back-Low(0-30)	808.15	8.1
BM - Back-Medium(30-60)	1720.6	17.2
BH - Back-High(60-80)	650.16	6.5
BVH - Back-Very High(80-90)	10.597	0.1
Total Back Light	3189.5	31.8

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	B2-U0-G2
---------------------------	----------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	3189.5	0	3189.5
Street Side	6834.3	0	6834.3

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-12-06

Checker:

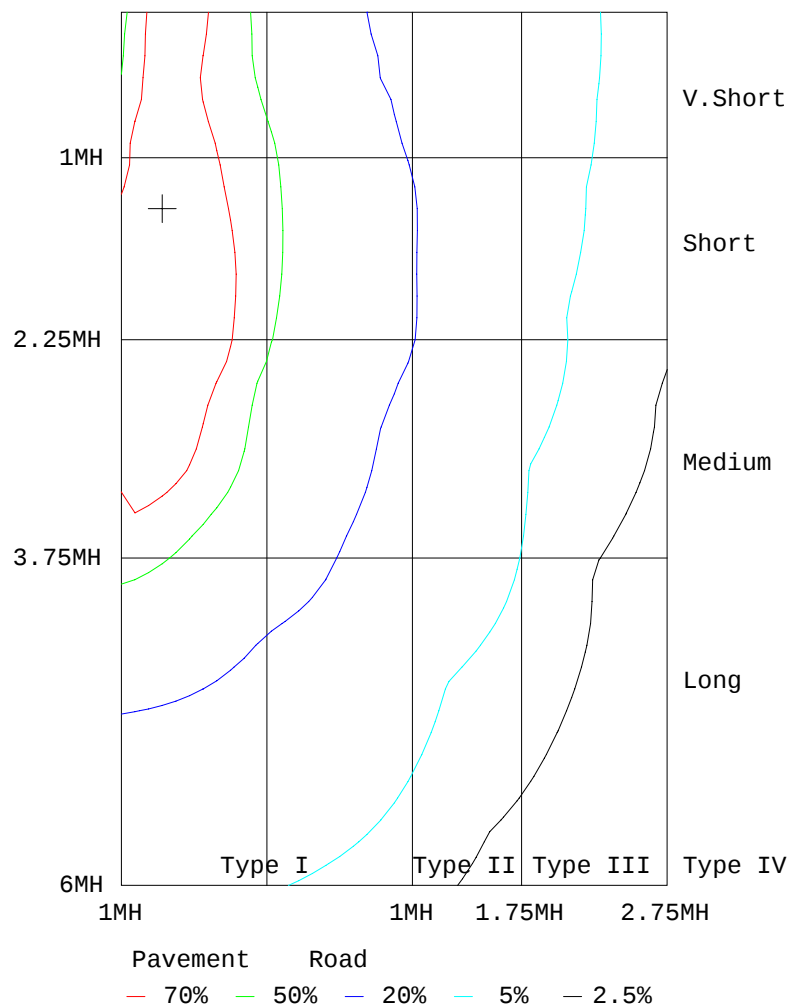
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.470m [K=1.0000]
 Remarks:

Assessor:

ROAD ISOCANDELA REPORT

Test:U:229.9V I:0.3982A P:90.18W PF:0.9852 Lamp Flux:10024x1 lm		
NAME: ST09-090	TYPE:90W	WEIGHT:
SPEC.:4000K Ra70 R09601	DIM.: 0.533*0.283*0.115	SERIAL No.:
MFR.:	SUR.:0.18*0.18	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-12-06

Checker:

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.470m [K=1.0000]
 Remarks:

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

UNIT: cd

[illegible]

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.470m [K=1.0000]
Remarks:

```

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table - - 2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2016-12-06

Checker :

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.470m [K=1.0000]
Remarks:

```

Assessor: