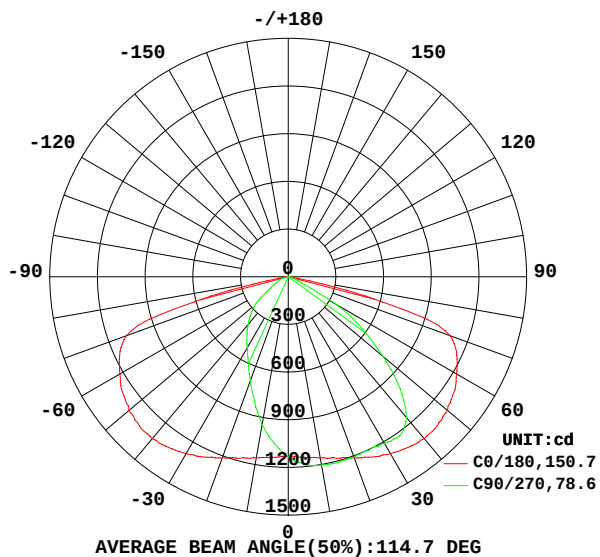
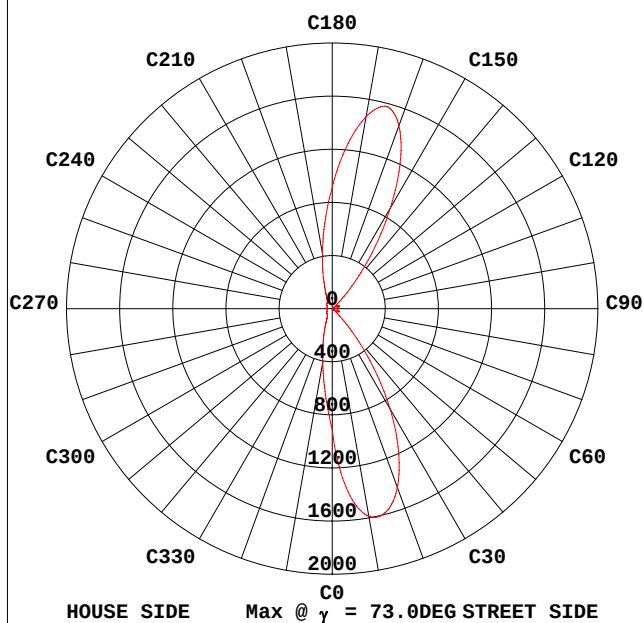


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:229.9V I:0.1311A P:29.17W PF:0.9677 Lamp Flux:3711.1x1 lm		
NAME: ST09-030	TYPE:30W	WEIGHT:
SPEC.:4000K Ra70 R09603	DIM.: 0.533*0.283*0.115	SERIAL No.:
MFR.:	SUR.:0.18*0.18	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 127.20 lm/W			
MODEL	ST09-030	I _{max} (cd)	1579	η street_up(%)	0.0
NOMINAL POWER(W)	30	LOR(%)	100.0	η street_down(%)	63.6
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	3711	η house_up(%)	0.0
NOMINAL FLUX(lm)	3711.1	MAXIMUM @(C,γ)	15,73.0	η house_down(%)	36.4
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

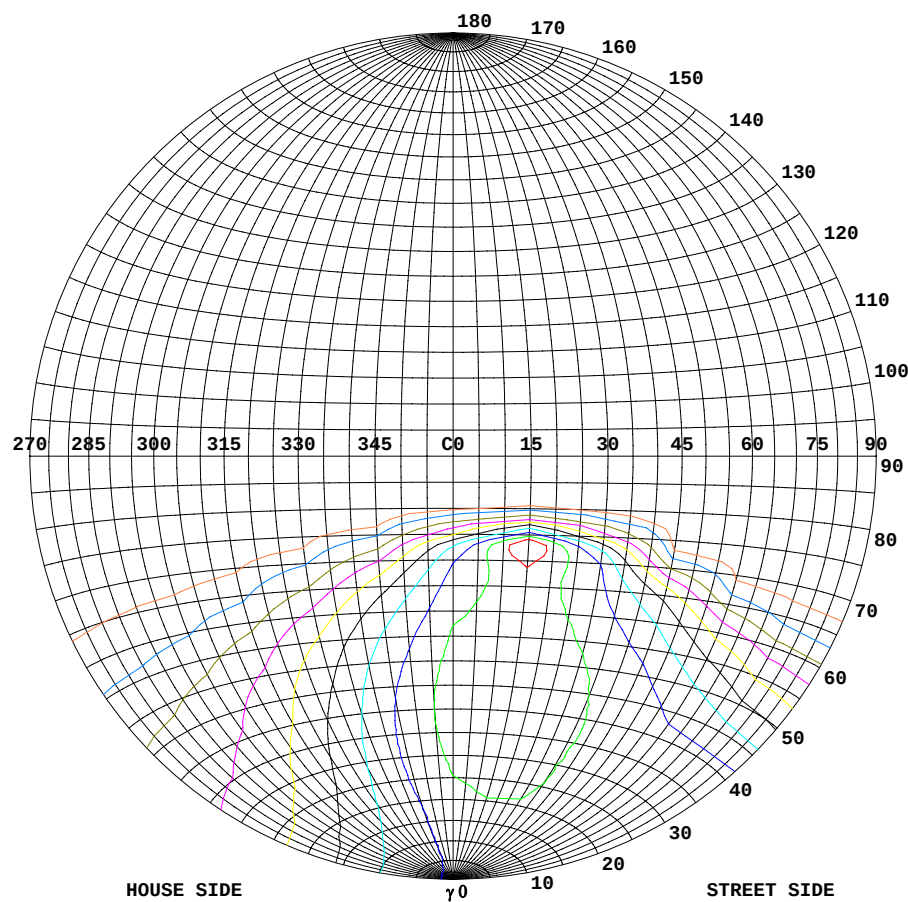
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-12-05

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 - Medium
CIE:Narrow - Long
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:29.90cd/klm
Max.At90:0cd/klm
Max.80-90:29.90cd/klm
NRB 5101:Limited[1.5%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1579
90%	1421
80%	1263
70%	1105
60%	947
50%	789
40%	631
30%	474
20%	316
10%	158
5%	79

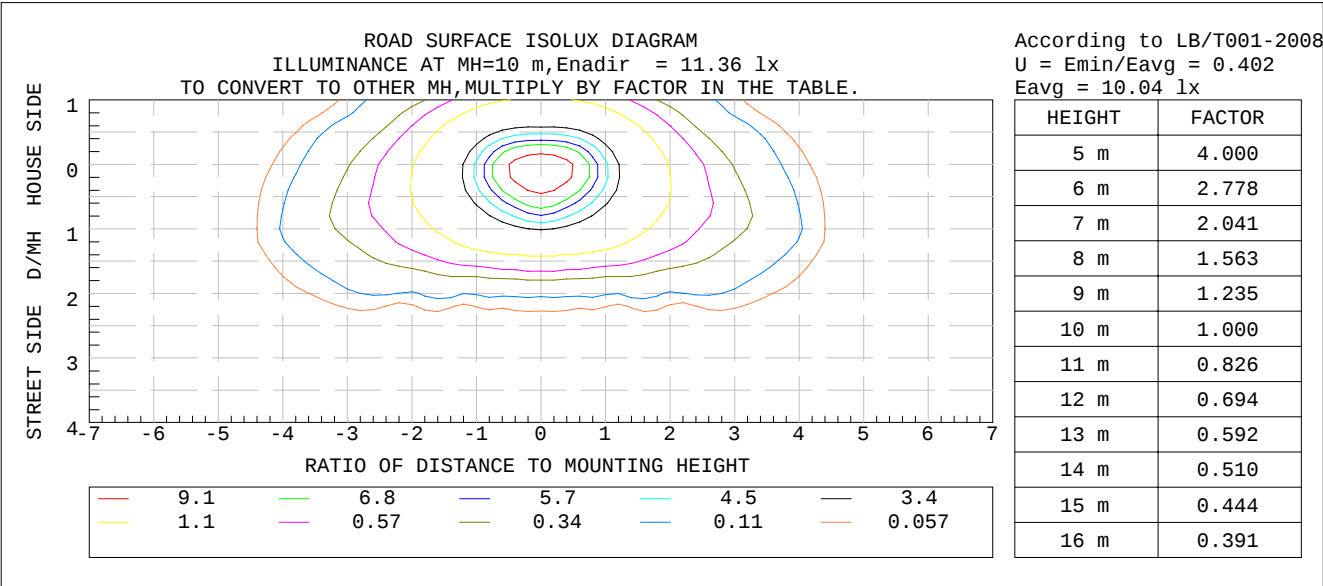
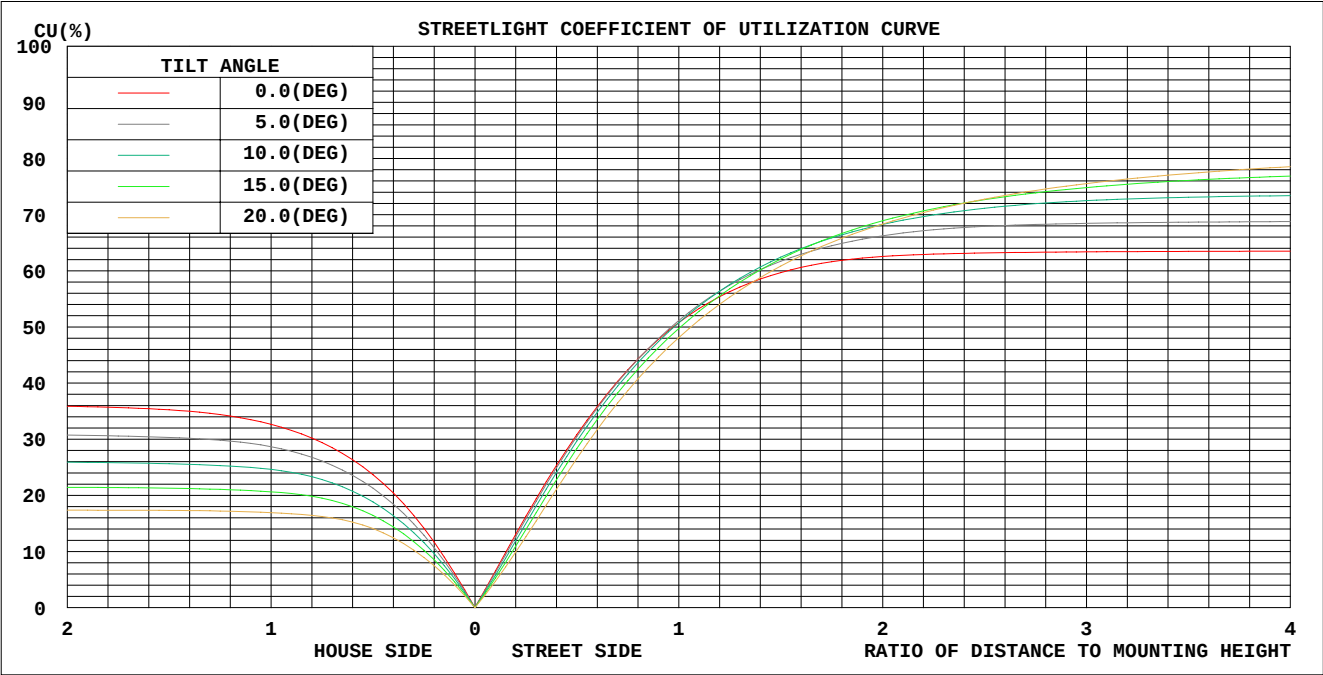
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2016-12-05

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: 2016-12-05

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	1159	1208	1203	1208	1159	1019	946.4	1019	0- 10	107.1	107.1	2.89, 2.89
20	1212	1231	1209	1231	1212	877.8	698.0	877.8	10- 20	308.5	415.6	11.2, 11.2
30	1285	1219	1210	1219	1285	756.0	517.3	756.0	20- 30	484.3	899.9	24.3, 24.2
40	1330	1210	1158	1210	1330	639.0	393.5	639.0	30- 40	634.3	1534	41.3, 41.3
50	1308	1137	776.7	1137	1308	503.2	268.4	503.2	40- 50	719.7	2254	60.7, 60.7
60	1224	932.5	350.6	932.5	1224	270.3	104.5	270.3	50- 60	685.1	2939	79.2, 79.2
70	1083	305.8	56.43	305.8	1083	72.29	58.18	72.29	60- 70	521.3	3460	93.2, 93.2
80	56.12	12.61	1.496	12.61	56.12	18.63	0.7728	18.63	70- 80	244.6	3705	99.8, 99.8
90	0	0	0	0	0	0	0	0	80- 90	6.044	3711	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		

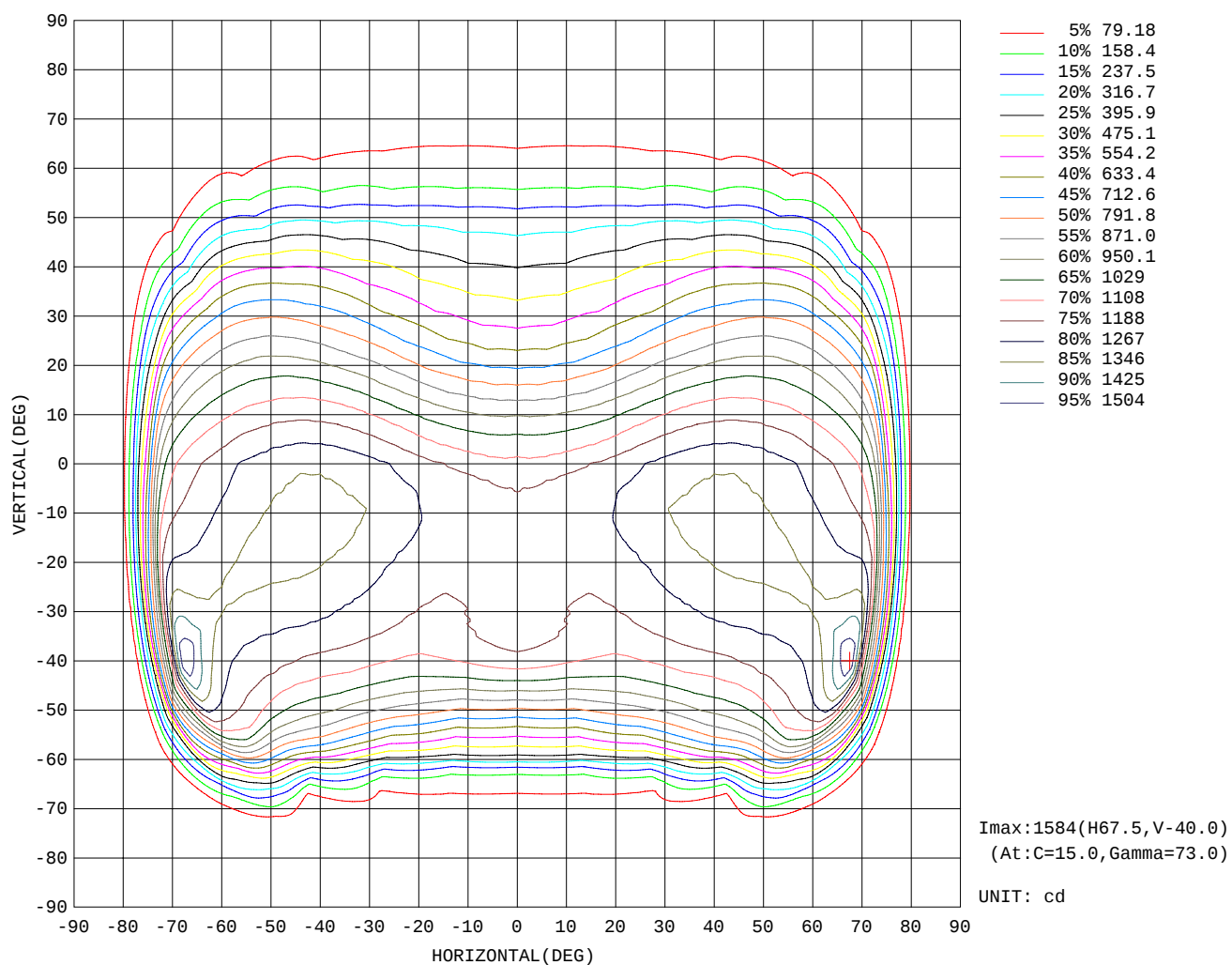
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2016-12-05

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



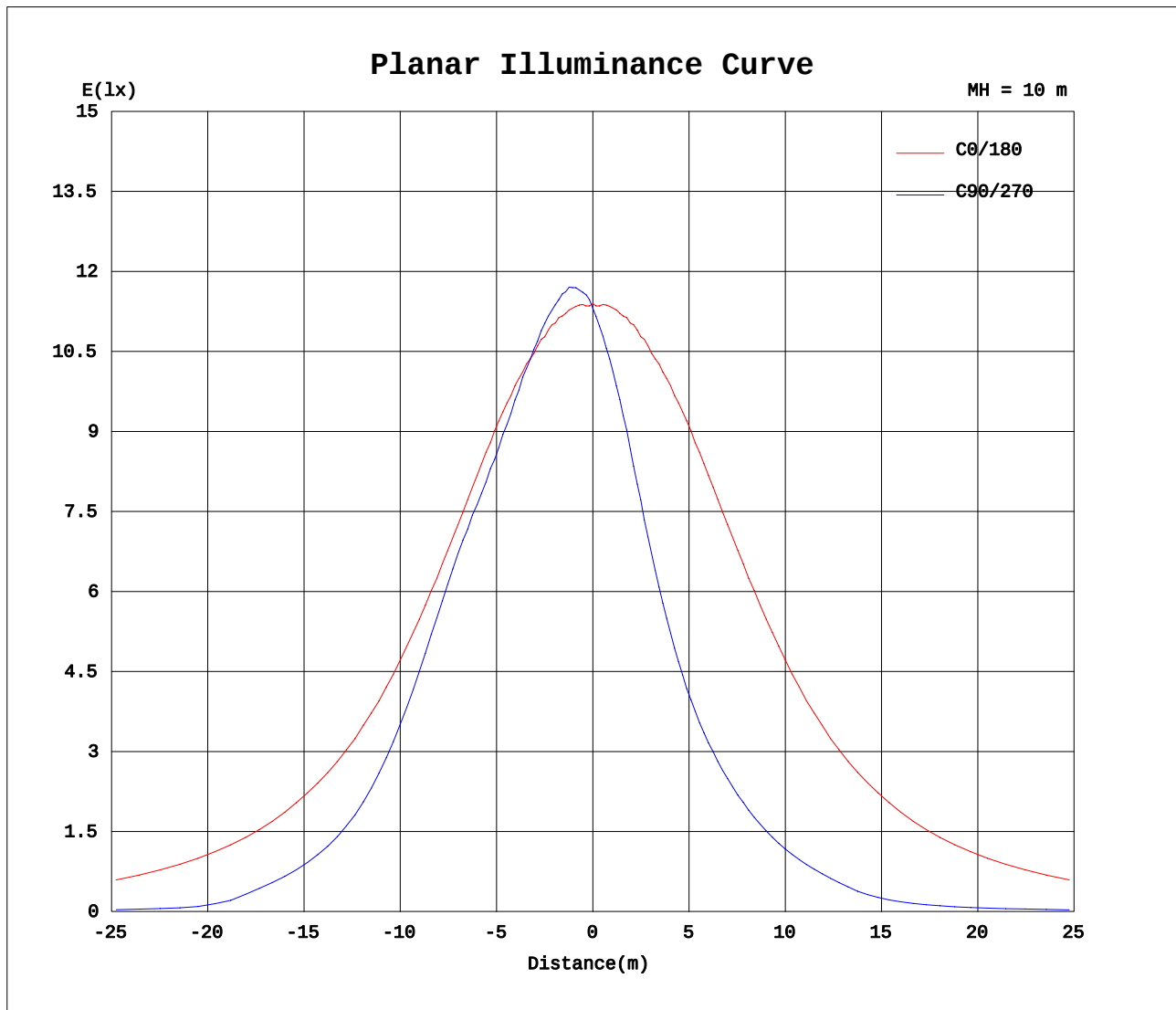
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2016-12-05

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: 2016-12-05

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:

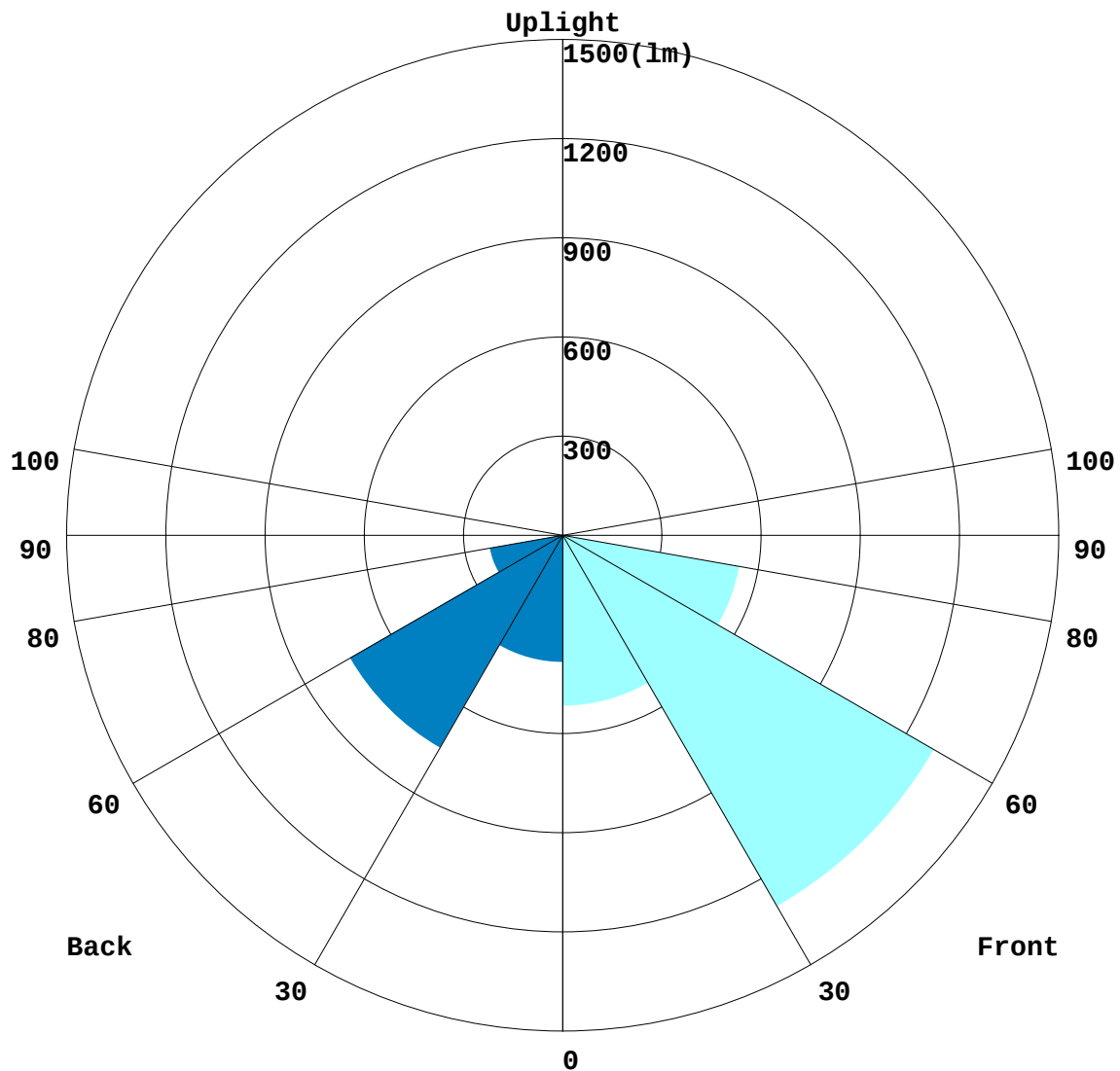
Checker:

Assessor:

LCS REPORT

Test:U:229.9V I:0.1311A P:29.17W PF:0.9677 Lamp Flux:3711.1x1 lm		
NAME: ST09-030	TYPE:30W	WEIGHT:
SPEC.:4000K Ra70 R09603	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:2016-12-05

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:0.1311A P:29.17W PF:0.9677 Lamp Flux:3711.1x1 lm		
NAME: ST09-030	TYPE:30W	WEIGHT:
SPEC.:4000K Ra70 R09603	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)	516.17	13.9
FM - Front-Medium(30-60)	1296.5	34.9
FH - Front-High(60-80)	542.41	14.6
FVH - Front-Very High(80-90)	3.5707	0.1
Total Forward Light	2358.7	63.6

BL - Back-Low(0-30)	383.77	10.3
BM - Back-Medium(30-60)	742.56	20.0
BH - Back-High(60-80)	223.53	6.0
BVH - Back-Very High(80-90)	2.4729	0.1
Total Back Light	1352.3	36.4

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-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1352.3	0	1352.3
Street Side	2358.7	0	2358.7

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-12-05

Checker:

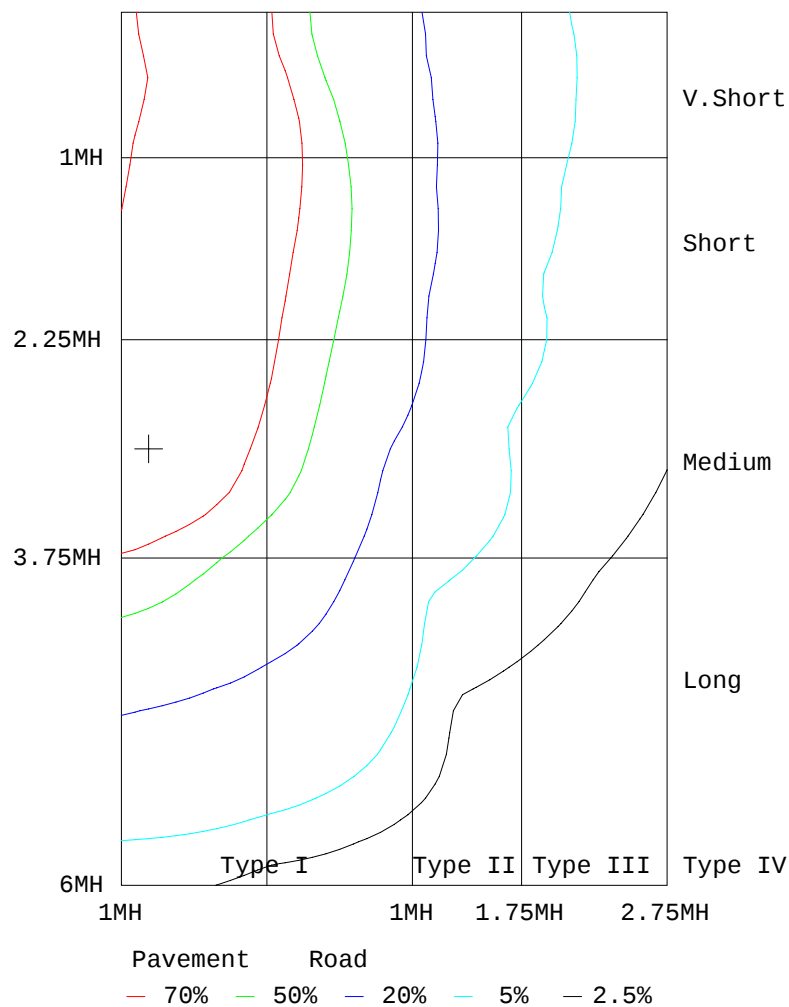
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.470m [K=1.0000]
 Remarks:

Assessor:

ROAD ISOCANDELA REPORT

Test:U:229.9V I:0.1311A P:29.17W PF:0.9677 Lamp Flux:3711.1x1 lm		
NAME: ST09-030	TYPE:30W	WEIGHT:
SPEC.:4000K Ra70 R09603	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: 2016-12-05

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]

```

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

Table - - 2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2016-12-05

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: