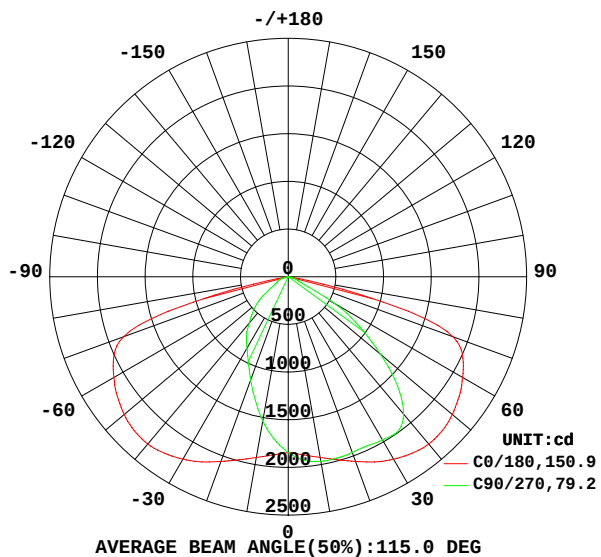
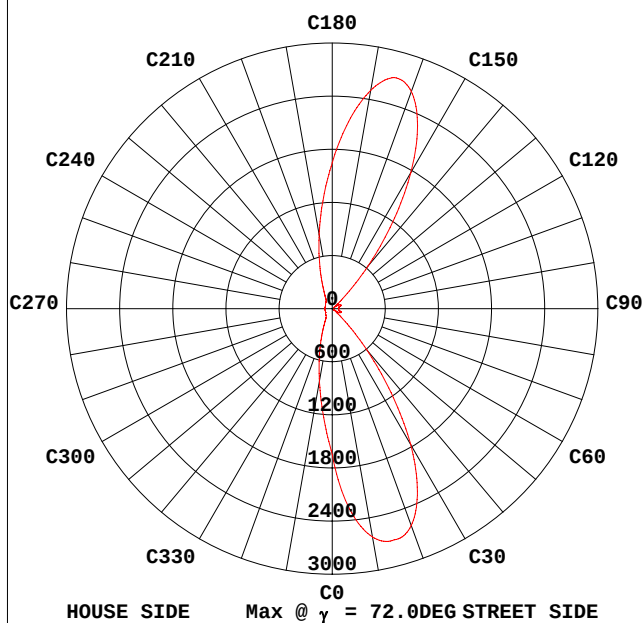


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:230.0V I:0.2416A P:52.40W PF:0.9434 Lamp Flux:6332.12x1 lm		
NAME: ST09-050	TYPE:50W	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: 120.85 lm/W			
MODEL	ST09-050	I _{max} (cd)	2703	η street_up(%)	0.0
NOMINAL POWER(W)	50	LOR(%)	100.0	η street_down(%)	63.3
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	6332	η house_up(%)	0.0
NOMINAL FLUX(lm)	6332.12	MAXIMUM @(C,γ)	165,72.0	η house_down(%)	36.7
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

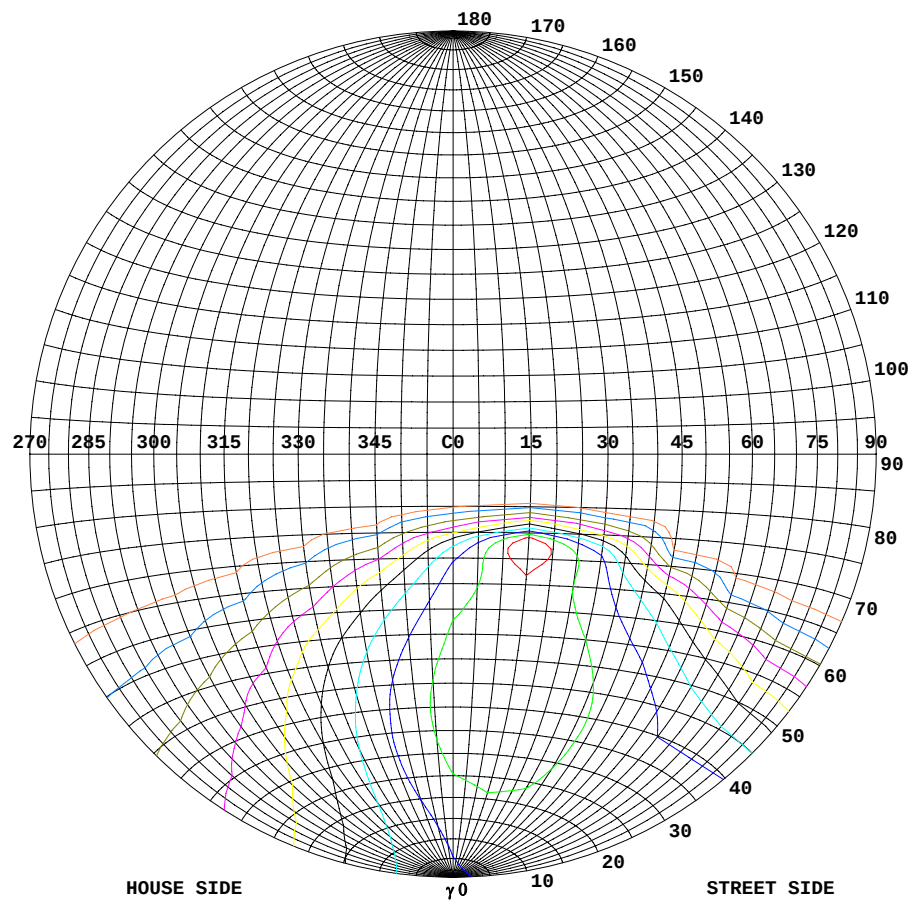
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2016-12-05

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.At80:34.31cd/klm
Max.At90:0cd/klm
Max.80-90:34.31cd/klm
NRB 5101:Limited[1.4%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	2703
90%	2433
80%	2162
70%	1892
60%	1622
50%	1352
40%	1081
30%	811
20%	541
10%	270
5%	135

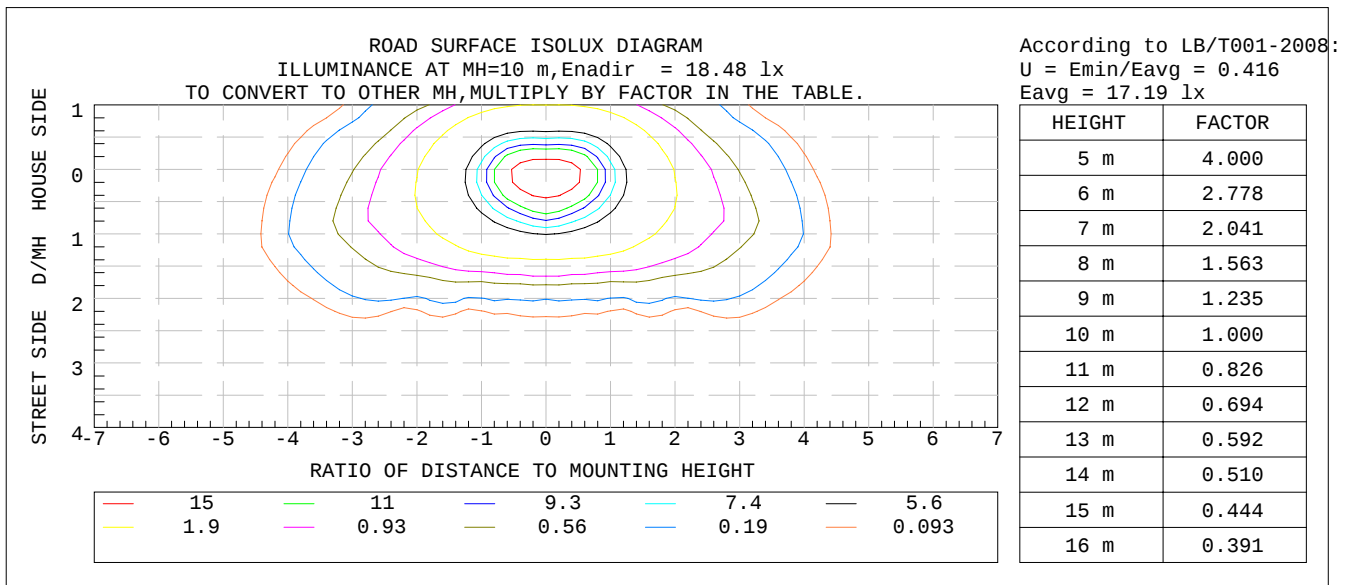
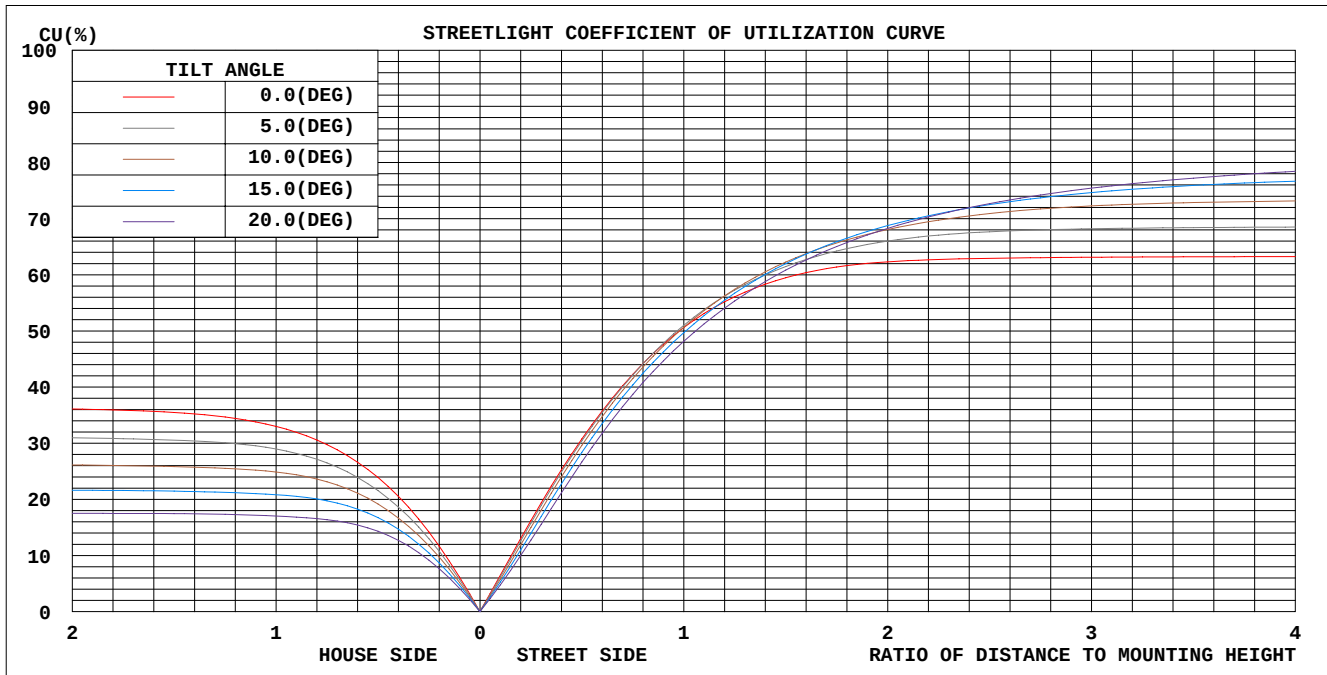
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2016-12-05

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	1925	2000	1966	2000	1925	1686	1538	1686	0- 10	176.3	176.3	2.78, 2.78
20	2061	2066	1962	2066	2061	1495	1154	1495	10- 20	515.4	691.7	10.9, 10.9
30	2209	2067	1975	2067	2209	1318	866.0	1318	20- 30	821.2	1513	23.9, 23.9
40	2291	2057	1882	2057	2291	1137	633.8	1137	30- 40	1085	2598	41, 41
50	2246	1936	1259	1936	2246	855.6	417.9	855.6	40- 50	1231	3829	60.5, 60.5
60	2111	1597	567.7	1597	2111	447.6	167.8	447.6	50- 60	1171	5000	79, 79
70	1837	504.8	95.34	504.8	1837	122.0	102.6	122.0	60- 70	901.2	5901	93.2, 93.2
80	119.1	23.27	2.977	23.27	119.1	35.57	2.272	35.57	70- 80	419.7	6321	99.8, 99.8
90	0	0	0	0	0	0	0	0	80- 90	11.36	6332	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		

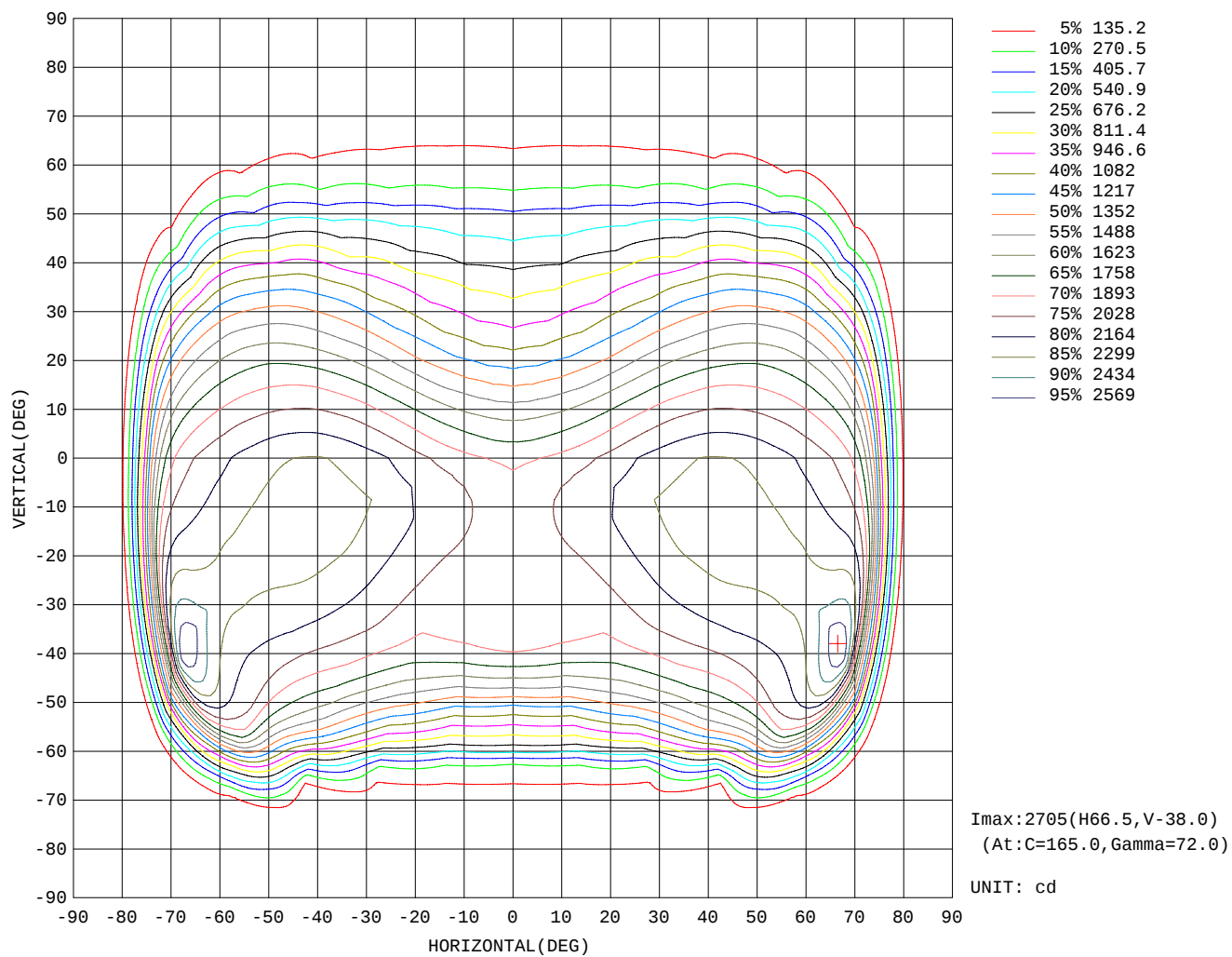
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2016-12-05

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



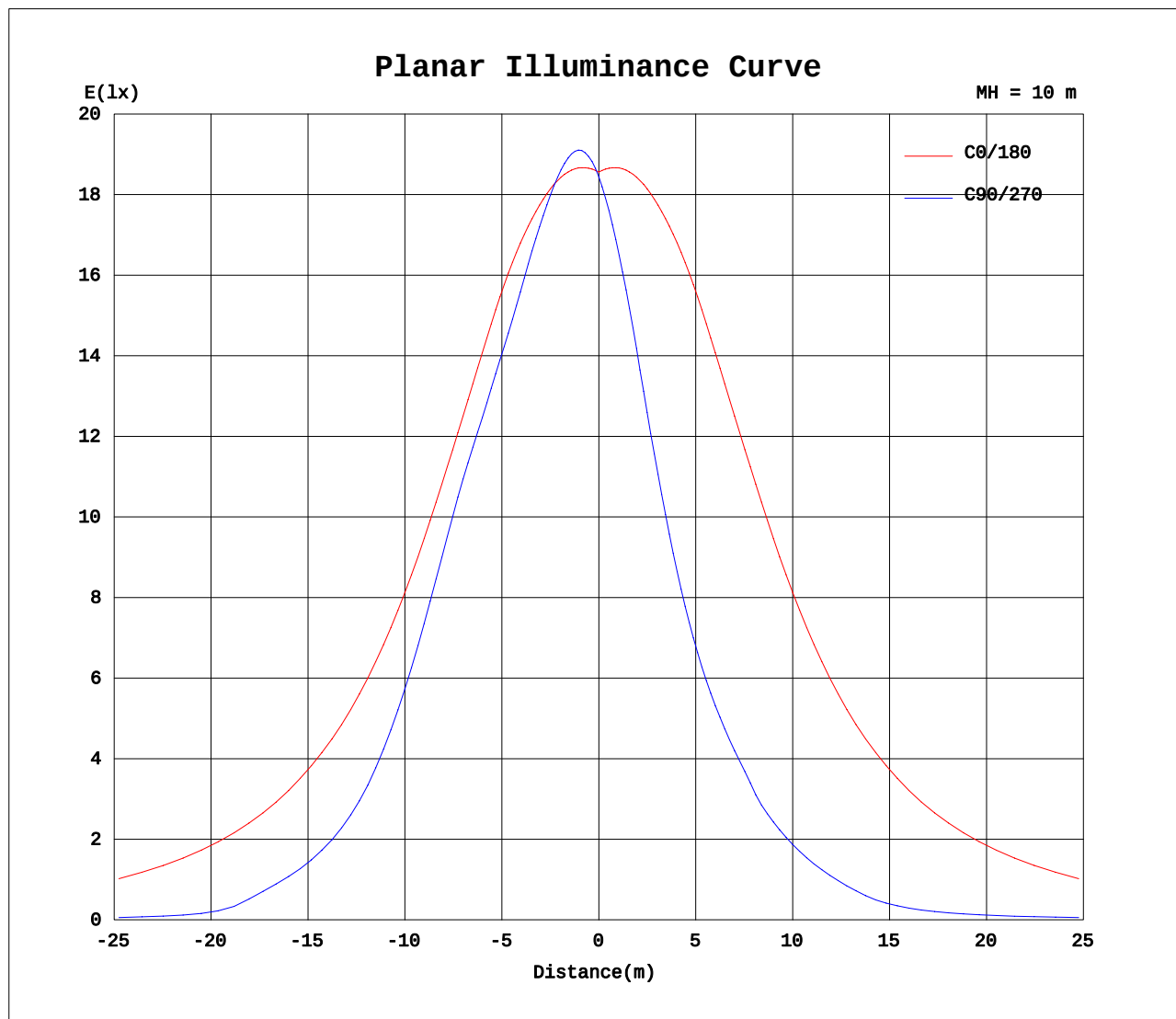
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2016-12-05

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:

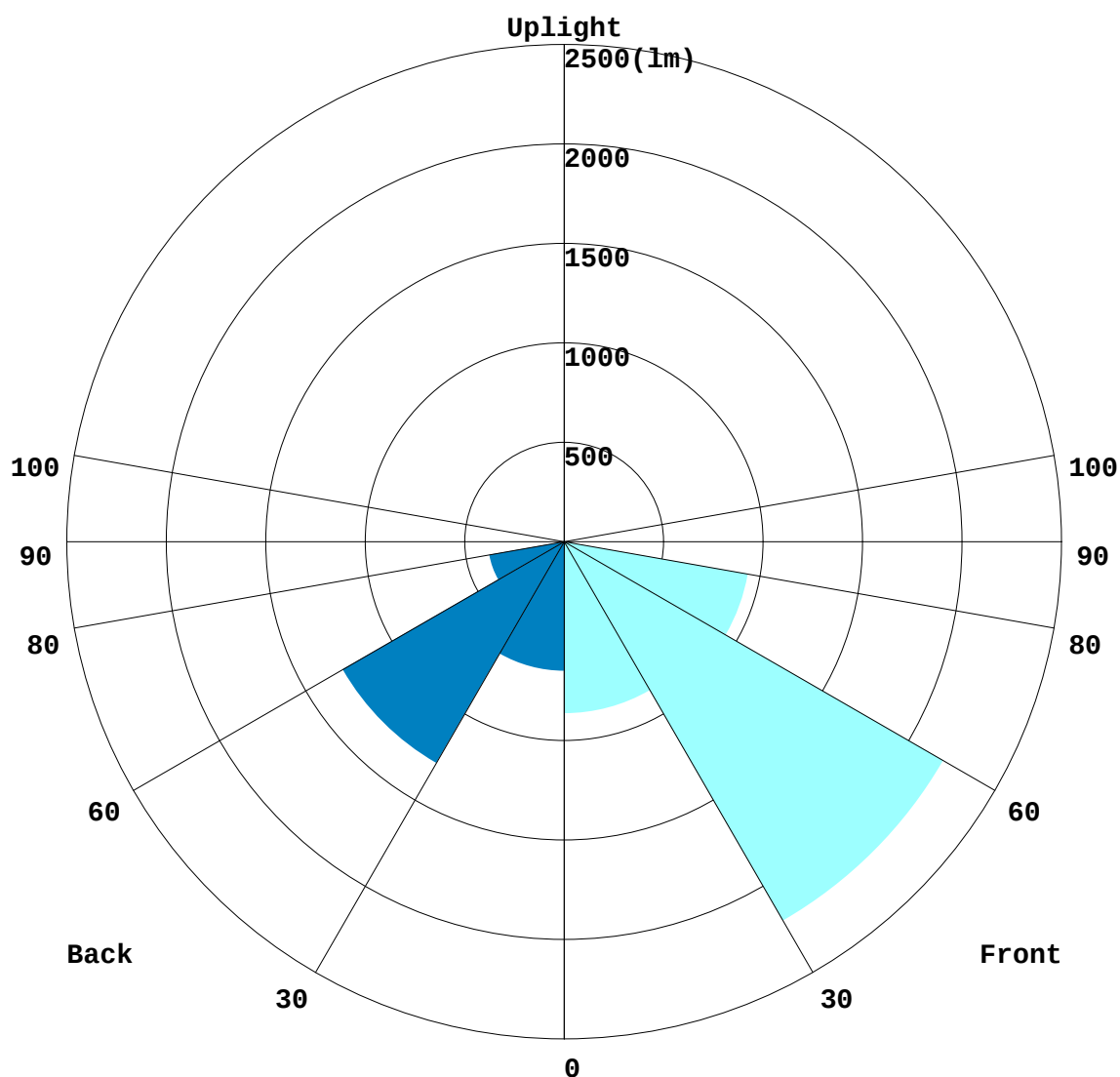
Checker:

Assessor:

LCS REPORT

Test:U:230.0V I:0.2416A P:52.40W PF:0.9434 Lamp Flux:6332.12x1 lm		
NAME: ST09-050	TYPE:50W	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:230.0V I:0.2416A P:52.40W PF:0.9434 Lamp Flux:6332.12x1 lm		
NAME: ST09-050	TYPE:50W	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)	863.11	13.6
FM - Front-Medium(30-60)	2201	34.8
FH - Front-High(60-80)	938.51	14.8
FVH - Front-Very High(80-90)	6.6475	0.1
Total Forward Light	4009.2	63.3

BL - Back-Low(0-30)	649.76	10.3
BM - Back-Medium(30-60)	1286	20.3
BH - Back-High(60-80)	382.41	6.0
BVH - Back-Very High(80-90)	4.709	0.1
Total Back Light	2322.9	36.7

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-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	2322.9	0	2322.9
Street Side	4009.2	0	4009.2

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

Checker:

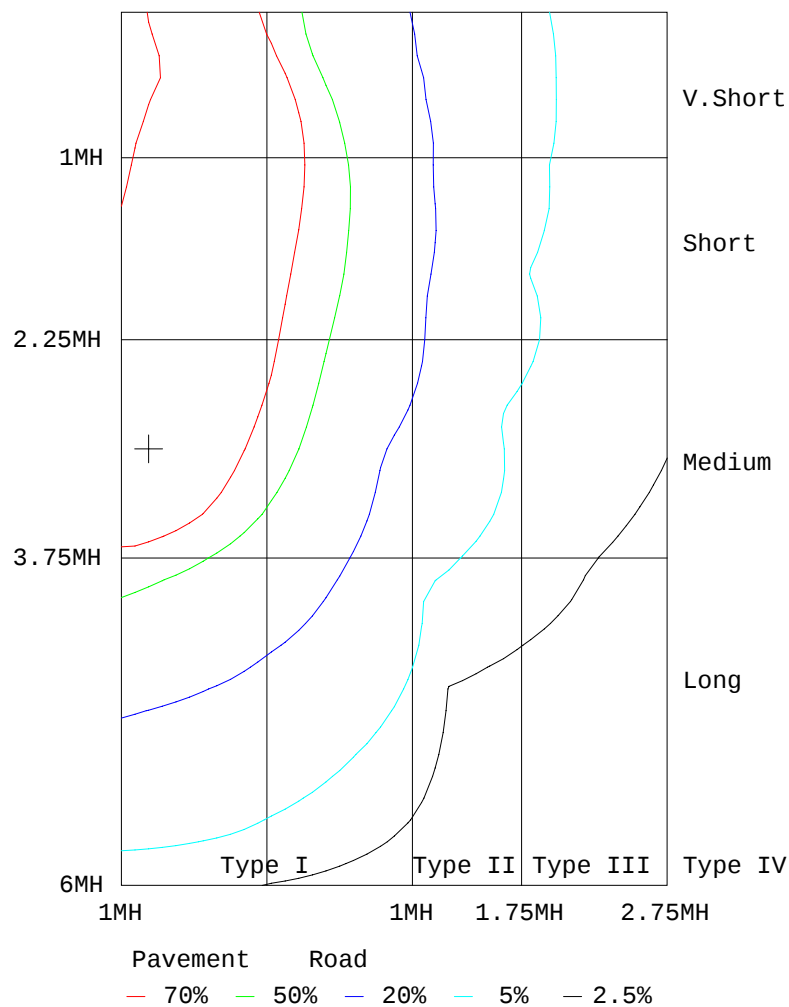
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.470m [K=1.0000]
 Remarks:

Assessor:

ROAD ISOCANDELA REPORT

Test:U:230.0V I:0.2416A P:52.40W PF:0.9434 Lamp Flux:6332.12x1 lm		
NAME: ST09-050	TYPE:50W	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

Table- -1

UNIT: cd

[illegible]

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:

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: