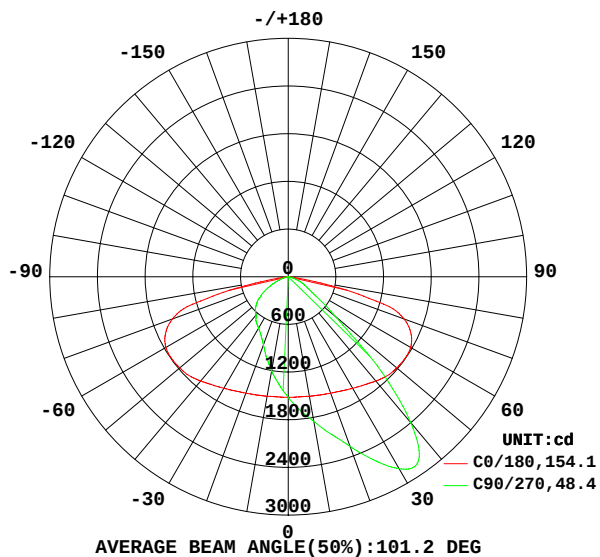
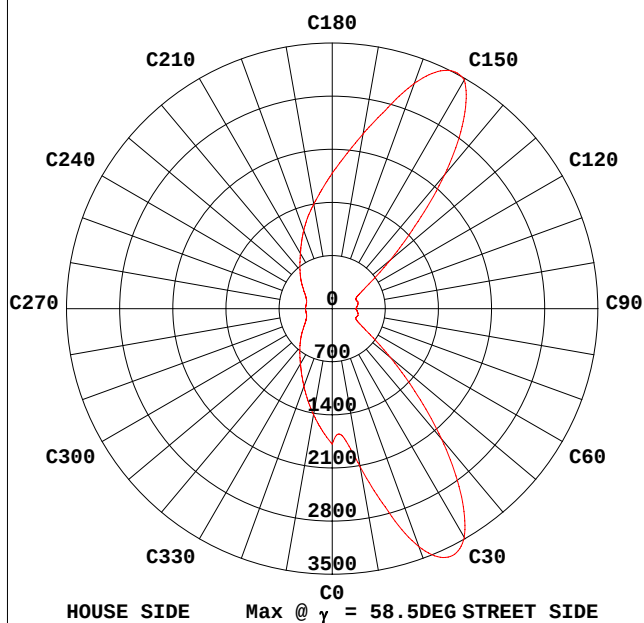


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:230.0V I:0.2407A P:52.18W PF:0.9429 Lamp Flux:6205.93x1 lm		
NAME: ST09-050	TYPE:50W	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: 118.93 lm/W			
MODEL	ST09-050	I _{max} (cd)	3480	η street_up(%)	0.0
NOMINAL POWER(W)	50	LOR(%)	100.0	η street_down(%)	68.0
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	6206	η house_up(%)	0.0
NOMINAL FLUX(lm)	6205.93	MAXIMUM @(C,γ)	30,58.5	η house_down(%)	32.0
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

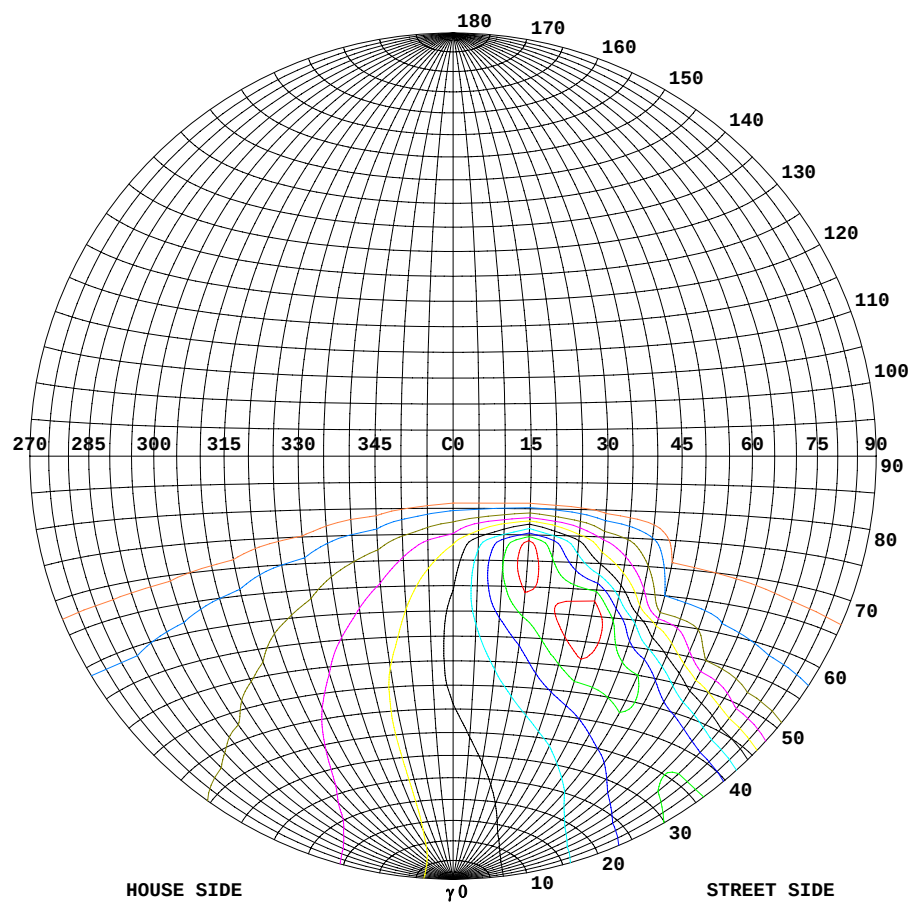
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2016-12-05

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 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.At80:64.65cd/klm
Max.At90:0cd/klm
Max.80-90:64.65cd/klm
NRB 5101:Non limited[34.6%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	3480
90%	3132
80%	2784
70%	2436
60%	2088
50%	1740
40%	1392
30%	1044
20%	696
10%	348
5%	174

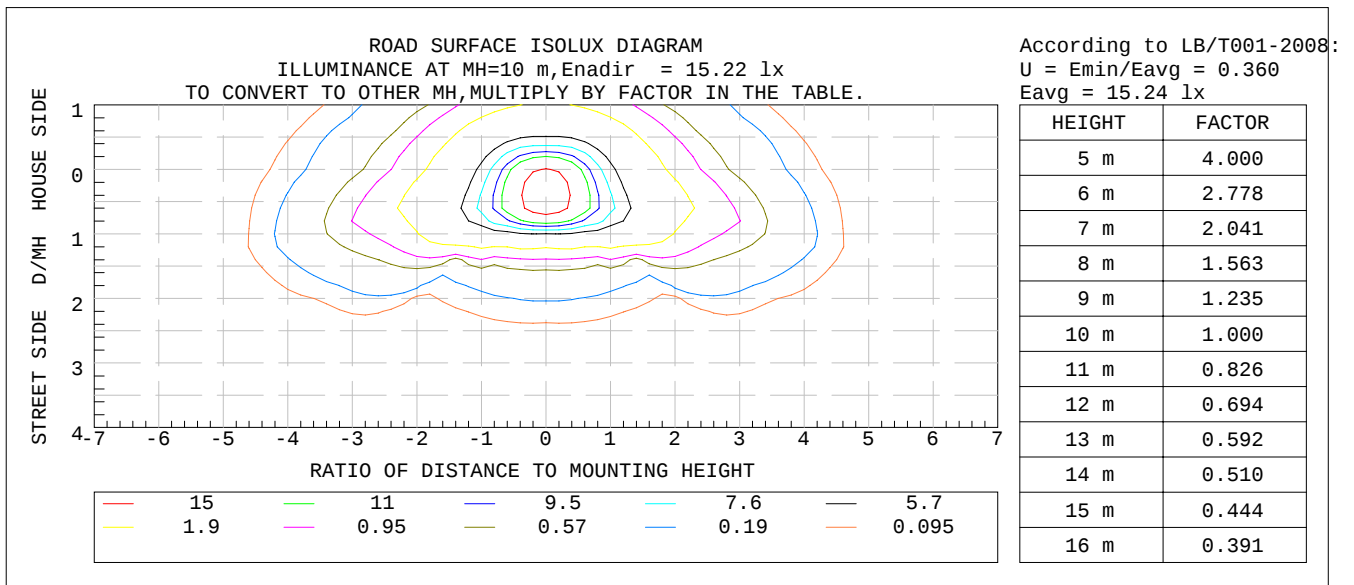
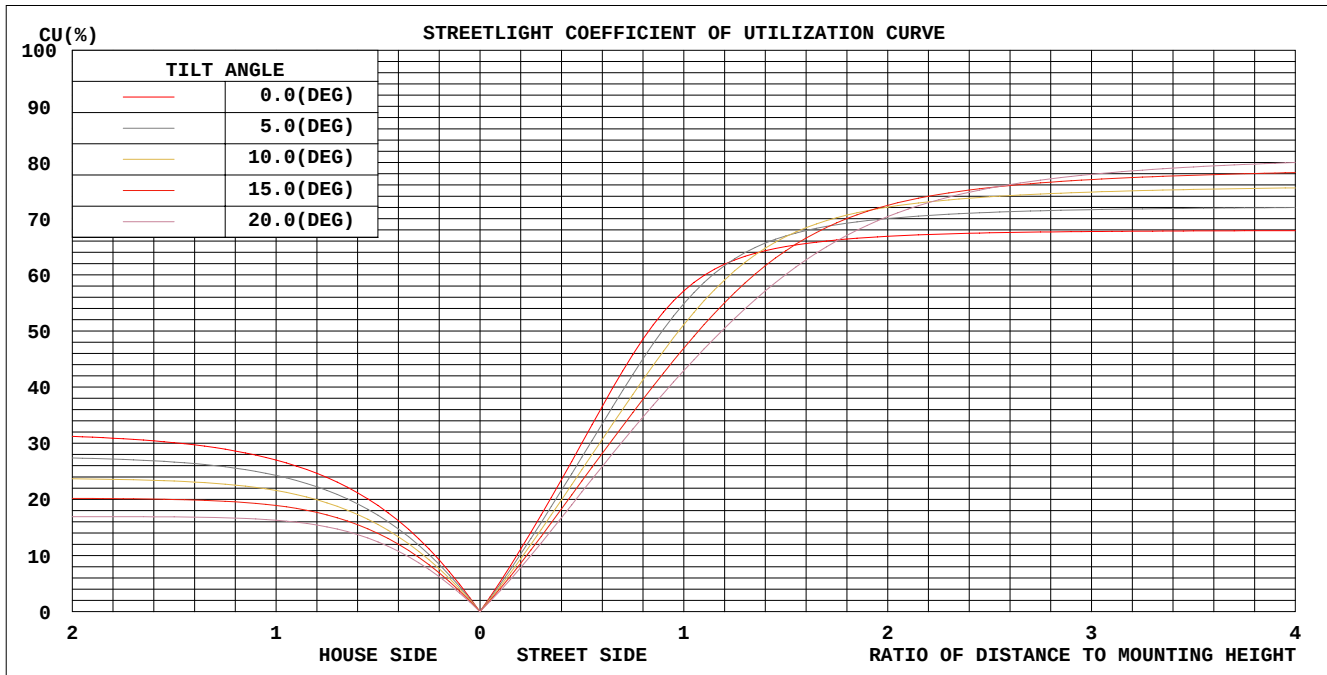
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2016-12-05

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
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: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 2016-12-05

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
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
5	1518	1634	1683	1634	1518	1407	1359	1407	0- 5	36.34	36.34	0.59, 0.59
10	1527	1742	1846	1742	1527	1301	1206	1301	5- 10	108.9	145.3	2.34, 2.34
15	1541	1849	2045	1849	1541	1213	1055	1213	10- 15	181.8	327.1	5.27, 5.27
20	1560	1967	2271	1967	1560	1135	913.7	1135	15- 20	255.7	582.8	9.39, 9.39
25	1586	2075	2542	2075	1586	1074	813.0	1074	20- 25	332.5	915.3	14.7, 14.7
30	1622	2225	2789	2225	1622	1018	747.9	1018	25- 30	413.9	1329	21.4, 21.4
35	1663	2428	2847	2428	1663	967.8	700.0	967.8	30- 35	497.7	1827	29.4, 29.4
40	1713	2662	2401	2662	1713	911.4	631.0	911.4	35- 40	571.3	2398	38.6, 38.6
45	1762	2853	1590	2853	1762	845.0	587.0	845.0	40- 45	614.4	3013	48.5, 48.5
50	1784	2772	767.0	2772	1784	740.8	517.1	740.8	45- 50	617.7	3630	58.5, 58.5
55	1793	2106	426.9	2106	1793	660.3	419.6	660.3	50- 55	590.7	4221	68, 68
60	1779	1247	282.6	1247	1779	559.2	319.2	559.2	55- 60	556.0	4777	77, 77
65	1706	345.7	201.6	345.7	1706	388.2	215.8	388.2	60- 65	501.5	5278	85.1, 85.1
70	1550	197.5	120.4	197.5	1550	215.8	118.4	215.8	65- 70	427.8	5706	91.9, 91.9
75	1055	94.00	60.55	94.00	1055	100.9	51.31	100.9	70- 75	335.4	6042	97.4, 97.4
80	273.3	28.18	4.567	28.18	273.3	38.18	2.629	38.18	75- 80	145.8	6187	99.7, 99.7
85	9.303	7.090	1.502	7.090	9.303	6.766	0.7699	6.766	80- 85	16.05	6204	100, 100
90	0	0	0	0	0	0	0	0	85- 90	2.323	6206	100, 100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

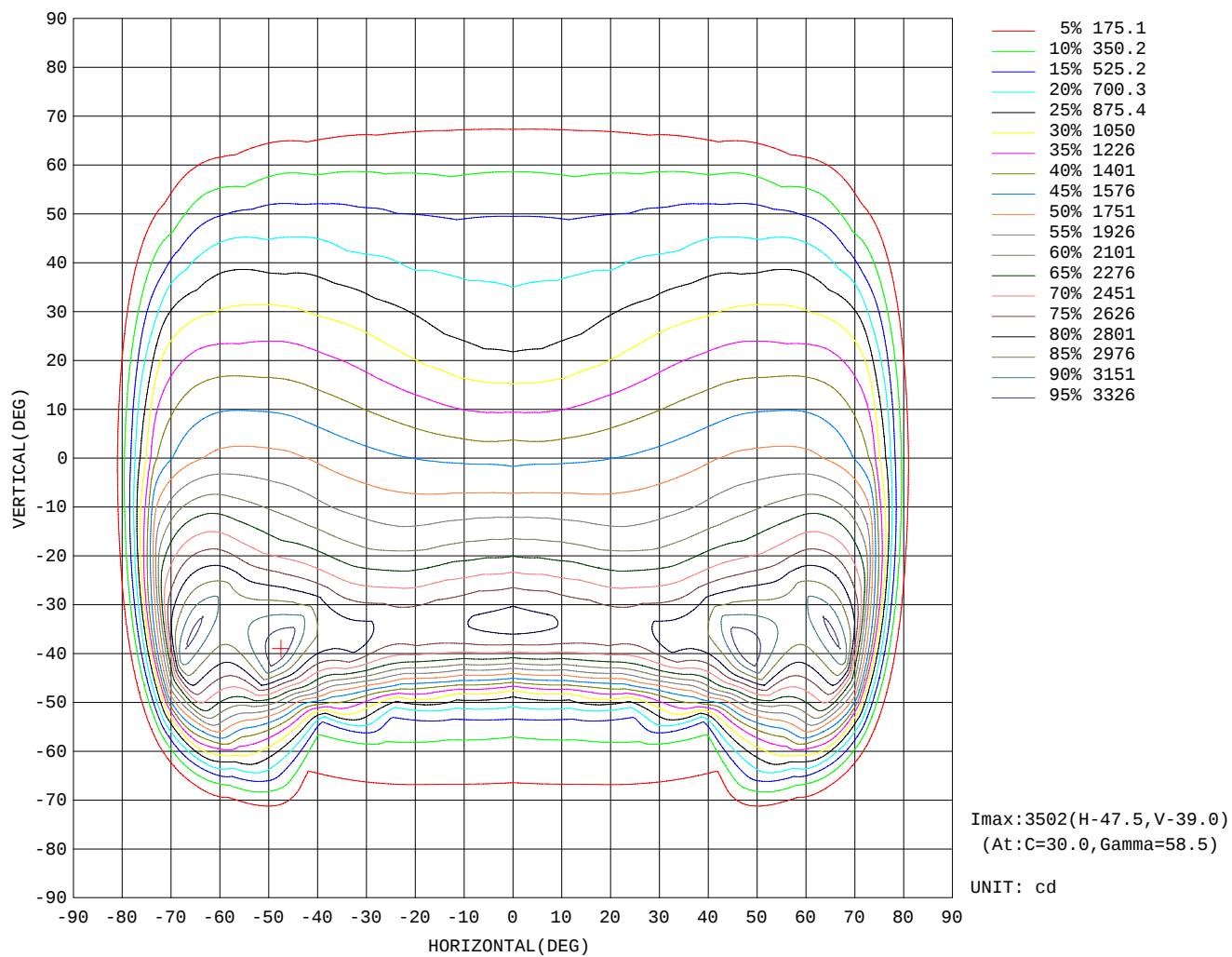
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date: 2016-12-05

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.295
 Humidity: 65.0%
 Test Distance: 9.470m [K=1.0000]
 Remarks:

Checker:

Assessor:

ISOCANDELA DIAGRAM



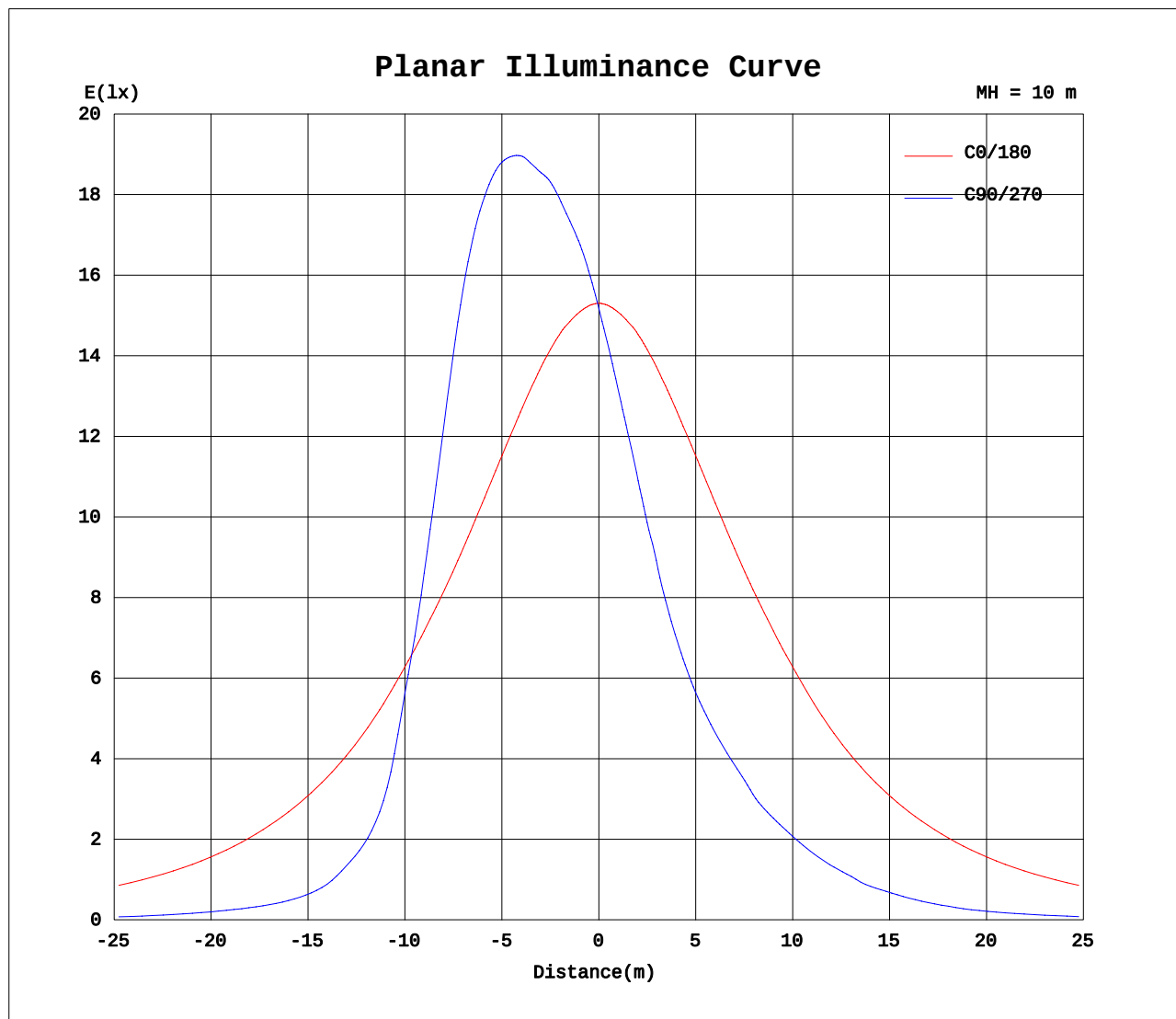
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 2016-12-05

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
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: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 2016-12-05

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 9.470m [K=1.0000]
Remarks:

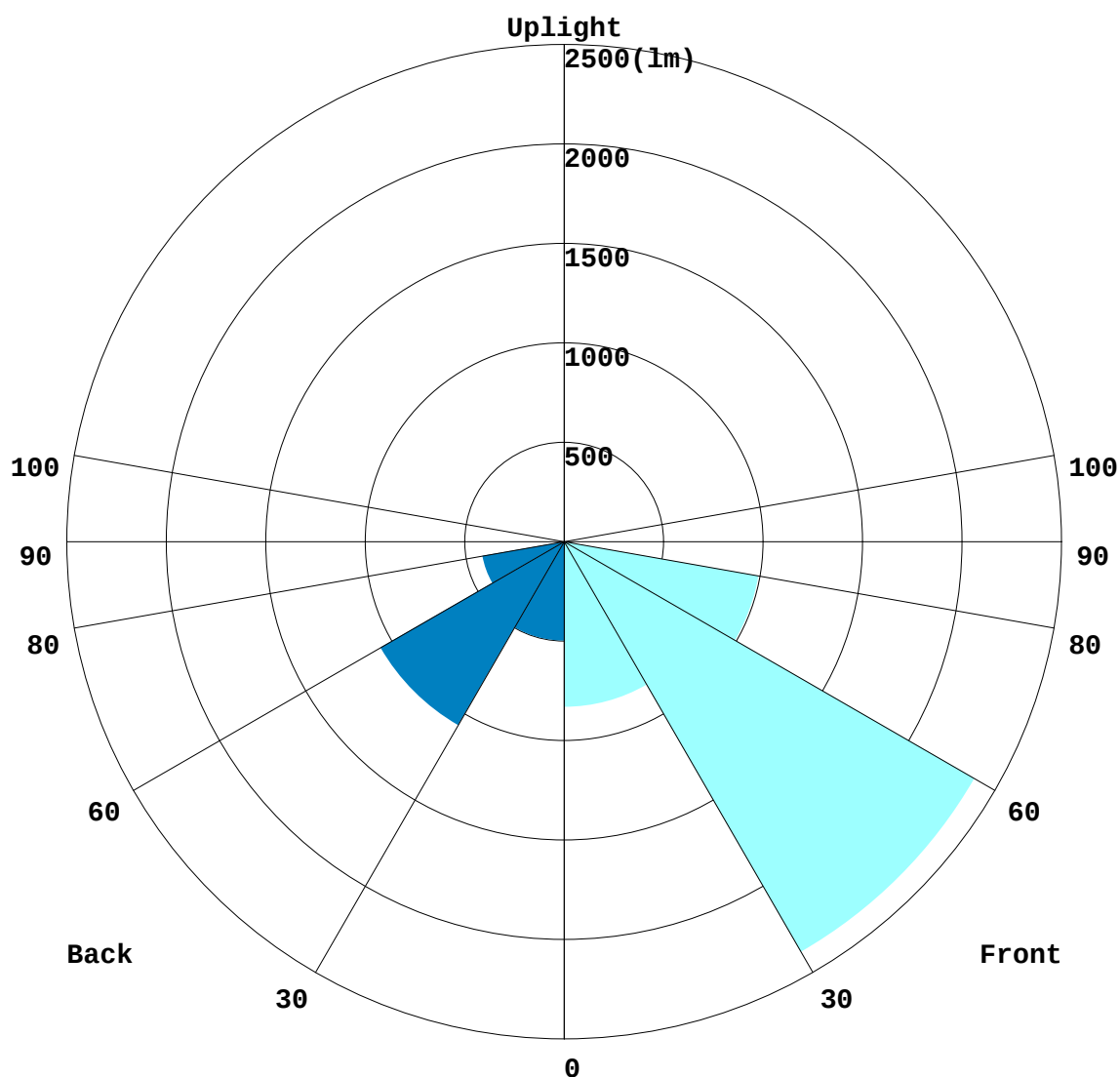
Checker:

Assessor:

LCS REPORT

Test:U:230.0V I:0.2407A P:52.18W PF:0.9429 Lamp Flux:6205.93x1 lm		
NAME: ST09-050	TYPE:50W	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: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2016-12-05

Checker:

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 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:0.2407A P:52.18W PF:0.9429 Lamp Flux:6205.93x1 lm		
NAME: ST09-050	TYPE:50W	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)	830.88	13.4
FM - Front-Medium(30-60)	2382.1	38.4
FH - Front-High(60-80)	993.33	16.0
FVH - Front-Very High(80-90)	11.047	0.2
Total Forward Light	4217.3	68.0

BL - Back-Low(0-30)	498.31	8.0
BM - Back-Medium(30-60)	1065.7	17.2
BH - Back-High(60-80)	417.15	6.7
BVH - Back-Very High(80-90)	7.3234	0.1
Total Back Light	1988.5	32.0

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	1988.5	0	1988.5
Street Side	4217.3	0	4217.3

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

Checker:

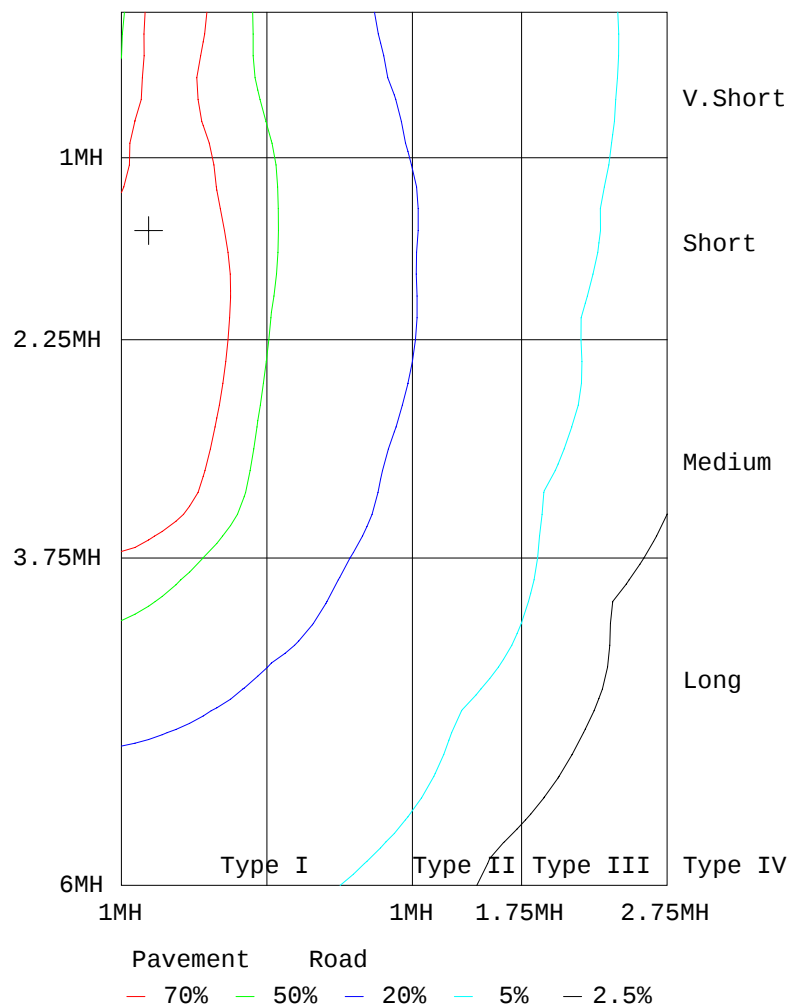
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.470m [K=1.0000]
 Remarks:

Assessor:

ROAD ISOCANDELA REPORT

Test:U:230.0V I:0.2407A P:52.18W PF:0.9429 Lamp Flux:6205.93x1 lm		
NAME: ST09-050	TYPE:50W	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: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2016-12-05

Checker:

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 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: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 2016-12-05

```

Range: 0 - 90DEG
Interval: 0.5DEG
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

Table - - 2

UNIT: cd

[illegible]

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

Checker :

```

Range: 0 - 90DEG
Interval: 0.5DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.470m [K=1.0000]
Remarks:

```

Assessor: