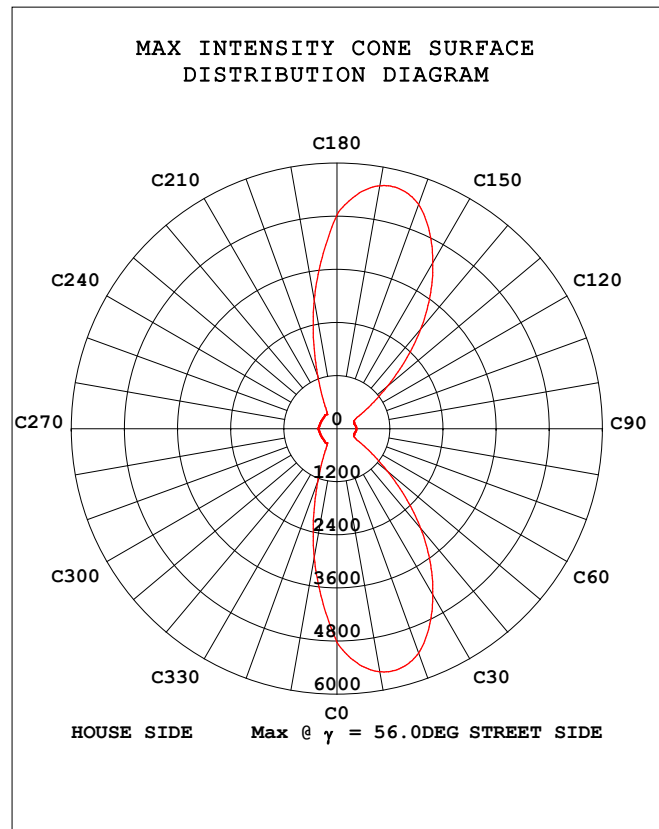
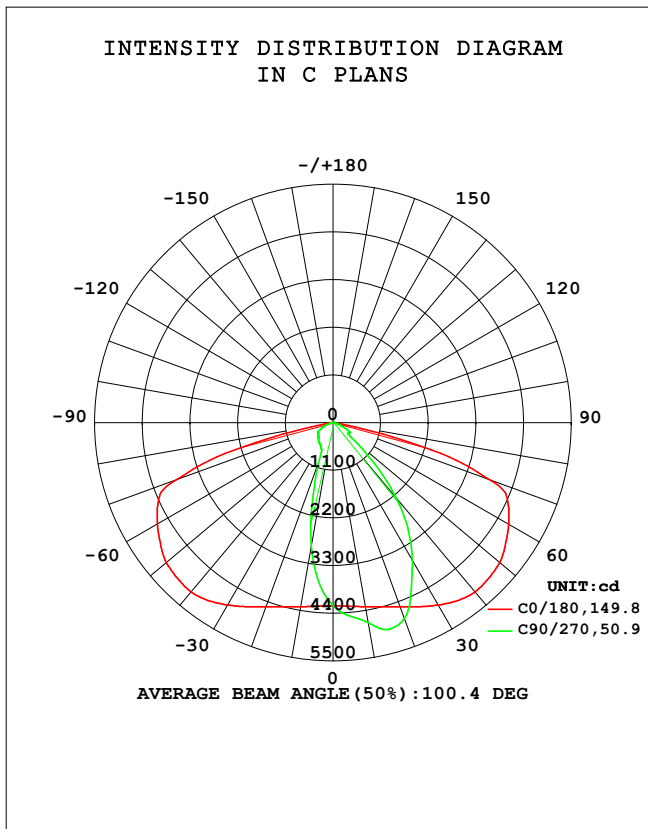


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:230.1V I:0.3941A P:88.81W PF:0.9794 Lamp Flux:10476x1 lm		
NAME: ST09-090	TYPE:90W	WEIGHT:
SPEC.:4000K Ra70 R09602	DIM.: 0.533*0.283*0.115	SERIAL No.:
MFR.:	SUR.:0.18*0.18	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 117.96 lm/W			
MODEL	NICHIA3030	I _{max} (cd)	5615	η street_up (%)	0.0
NOMINAL POWER (W)	90	LOR (%)	100.0	η street_down (%)	70.5
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	10476	η house_up (%)	0.0
NOMINAL FLUX (lm)	10476	MAXIMUM @ (C, γ)	13,56.0	η house_down (%)	29.5
LAMPS INSIDE	1	η up (%)	0.0	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	230	η down (%)	100.0	SLI	



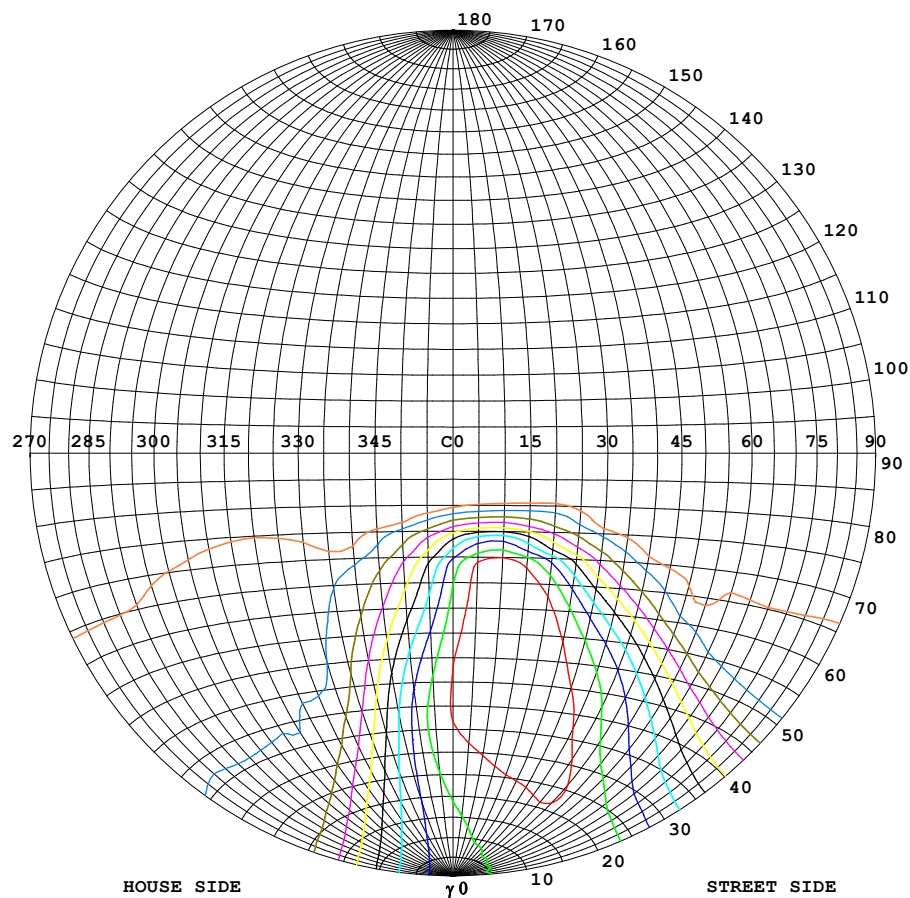
C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-06-03

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Checker: LI
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.At80:36.30cd/klm

Max.At90:0cd/klm

Max.80-90:36.30cd/klm

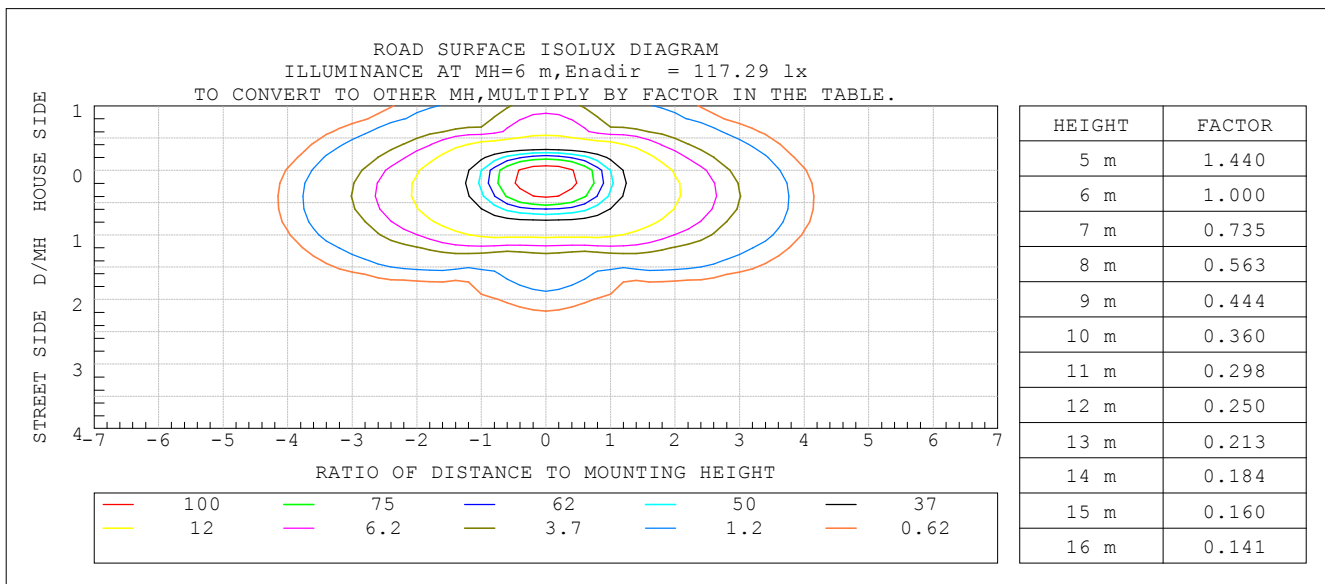
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	5615
90%	5053
80%	4492
70%	3930
60%	3369
50%	2807
40%	2246
30%	1684
20%	1123
10%	561
5%	281

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-06-03

Checker: LI

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2017-06-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 9.500m [K=1.0000]
Remarks:

Checker: LI

Assessor:

ZONAL FLUX DIAGRAM

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
5	4254	4448	4483	4448	4254	3896	3713	3896	0- 5	100.4	100.4	0.96,0.96
10	4313	4604	4689	4604	4313	3420	2892	3420	5- 10	293.4	393.8	3.76,3.76
15	4402	4830	4938	4830	4402	2802	1836	2802	10- 15	467.8	861.6	8.22,8.22
20	4524	5020	4813	5020	4524	2063	1001	2063	15- 20	614.6	1476	14.1,14.1
25	4686	5070	4271	5070	4686	1381	659.8	1381	20- 25	731.7	2208	21.1,21.1
30	4859	4892	3659	4892	4859	841.8	594.3	841.8	25- 30	827.3	3035	29,29
35	5012	4550	3033	4550	5012	594.7	565.4	594.7	30- 35	904.9	3940	37.6,37.6
40	5098	4268	2268	4268	5098	547.7	525.9	547.7	35- 40	960.1	4900	46.8,46.8
45	5082	3921	1407	3921	5082	511.1	487.5	511.1	40- 45	975.4	5876	56.1,56.1
50	5023	3317	682.7	3317	5023	462.7	454.2	462.7	45- 50	943.8	6819	65.1,65.1
55	4865	2401	427.3	2401	4865	415.2	426.3	415.2	50- 55	882.7	7702	73.5,73.5
60	4680	1336	443.8	1336	4680	414.5	376.8	414.5	55- 60	815.9	8518	81.3,81.3
65	4463	588.8	319.9	588.8	4463	472.5	259.9	472.5	60- 65	739.9	9258	88.4,88.4
70	3830	244.5	179.8	244.5	3830	432.7	170.0	432.7	65- 70	636.4	9894	94.4,94.4
75	2067	127.4	52.01	127.4	2067	249.4	26.08	249.4	70- 75	418.0	10312	98.4,98.4
80	229.7	55.62	4.349	55.62	229.7	79.20	1.247	79.20	75- 80	140.3	10453	99.8,99.8
85	18.24	12.68	2.708	12.68	18.24	5.342	1.111	5.342	80- 85	19.53	10472	100,100
90	0	0	0	0	0	0	0	0	85- 90	3.755	10476	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		

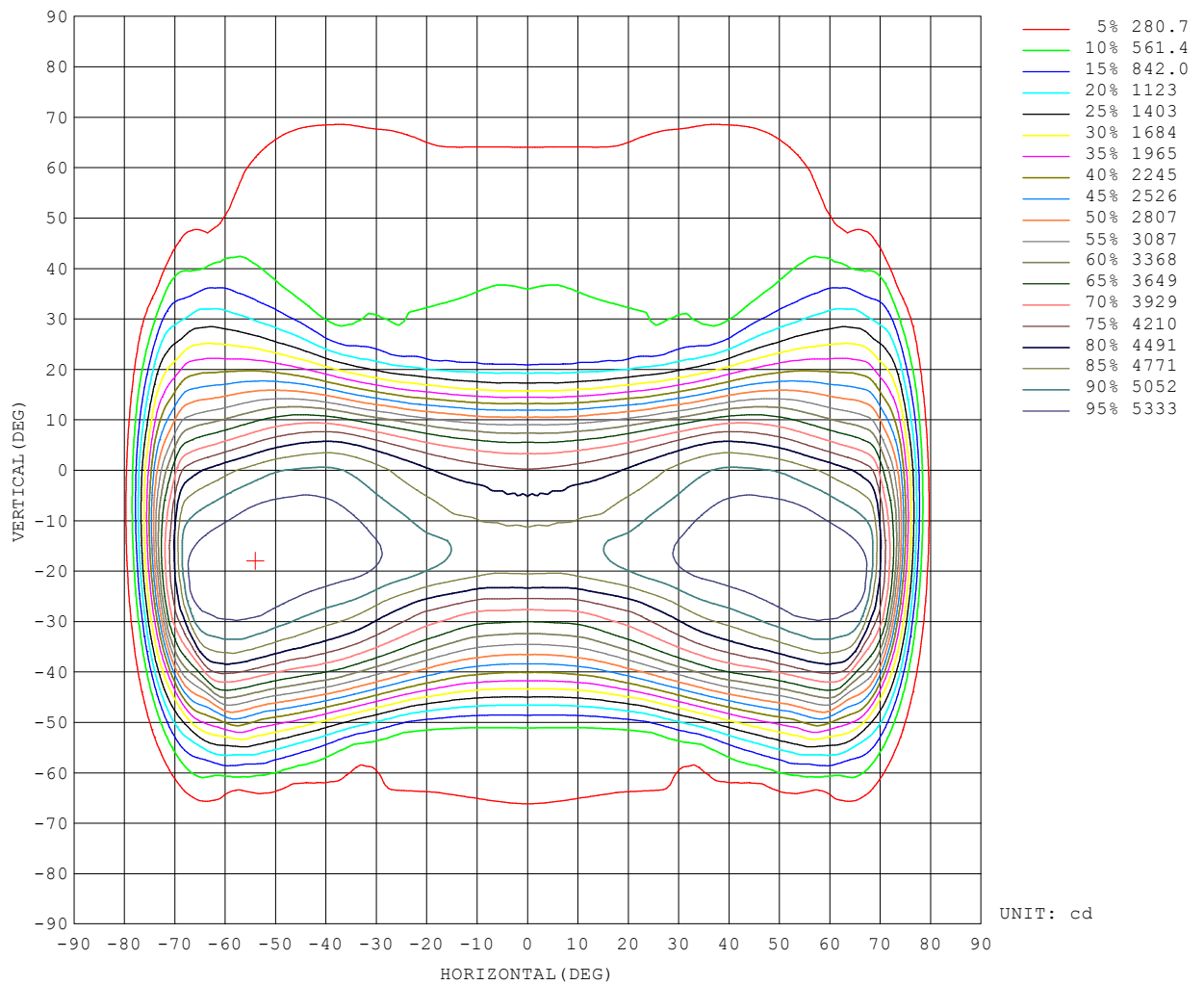
C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-06-03

Checker: LI

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.500m [K=1.0000]
 Remarks:

Assessor:

ISOCANDELA DIAGRAM



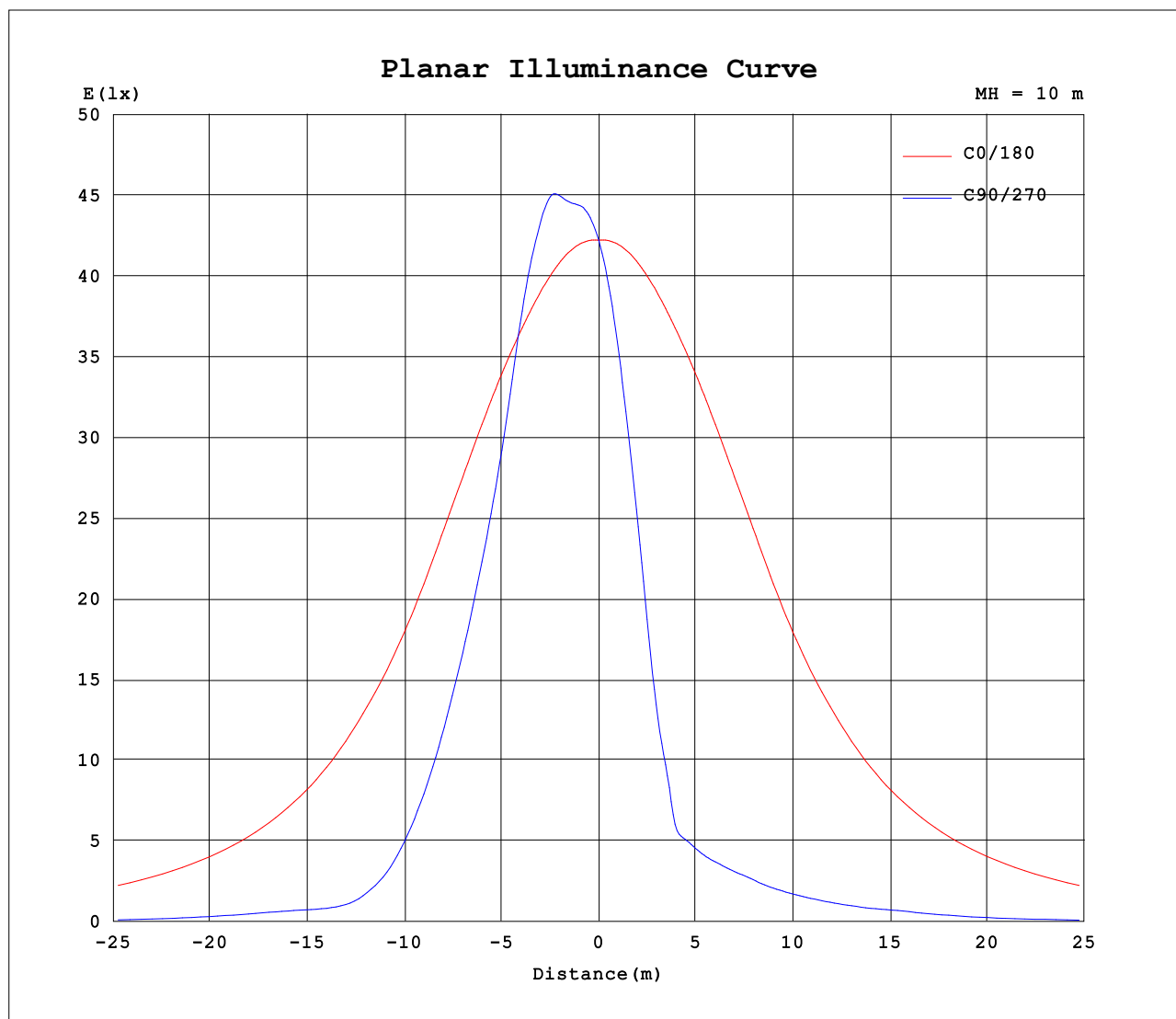
C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2017-06-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 9.500m [K=1.0000]
Remarks:

Checker: LI

Assessor:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2017-06-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 9.500m [K=1.0000]
Remarks:

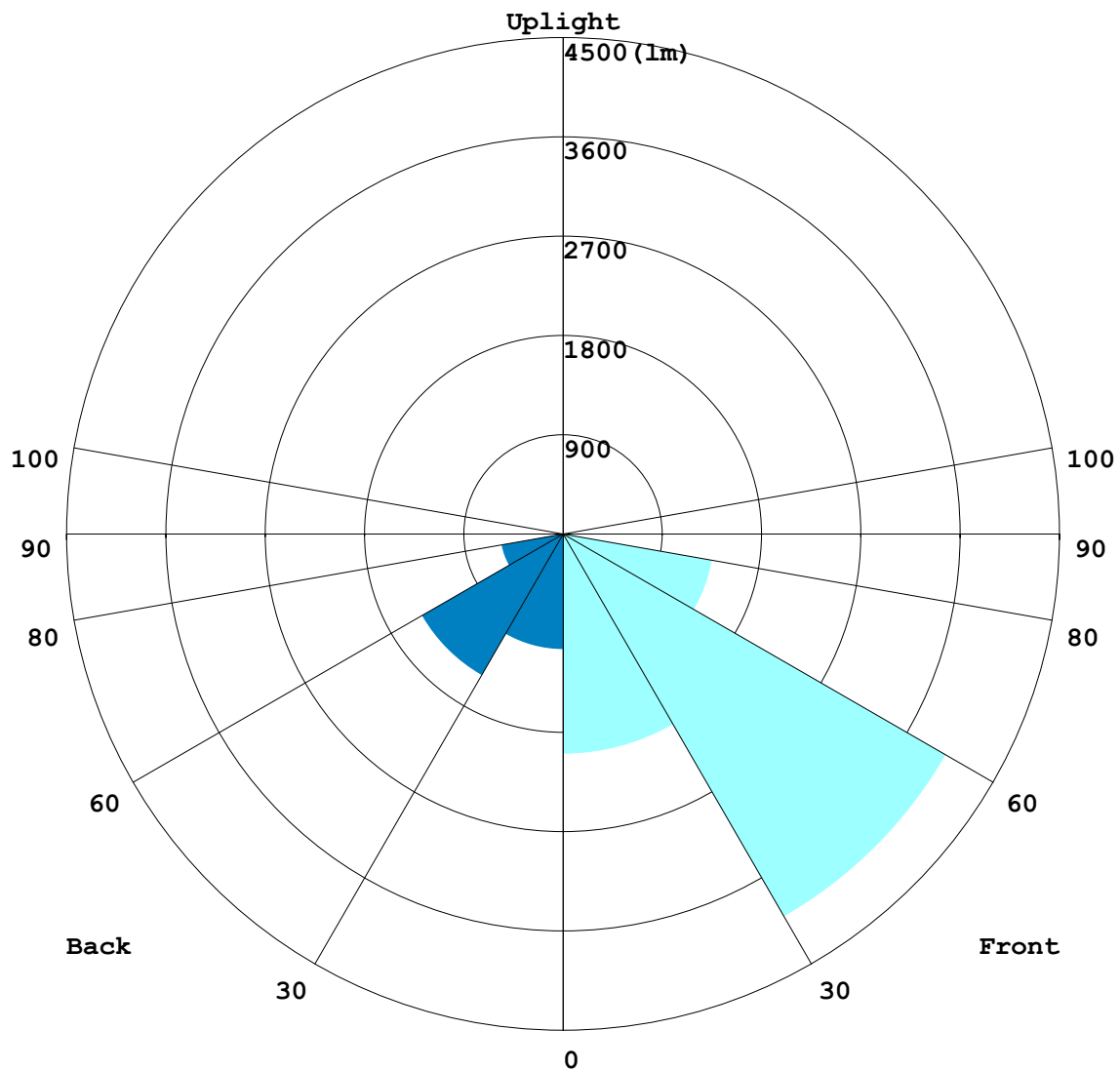
Checker: LI

Assessor:

LCS REPORT

Test:U:230.1V I:0.3941A P:88.81W PF:0.9794 Lamp Flux:10476x1 lm		
NAME: ST09-090	TYPE:90W	WEIGHT:
SPEC.:4000K Ra70 R09602	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: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-06-03

Checker: LI

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

BUG REPORT

Test:U:230.1V I:0.3941A P:88.81W PF:0.9794 Lamp Flux:10476x1 lm		
NAME: ST09-090	TYPE:90W	WEIGHT:
SPEC.:4000K Ra70 R09602	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)	1992	19.0
FM - Front-Medium(30-60)	4006	38.2
FH - Front-High(60-80)	1369.5	13.1
FVH - Front-Very High(80-90)	14.667	0.1
Total Forward Light	7382.1	70.5

BL - Back-Low(0-30)	1043.2	10.0
BM - Back-Medium(30-60)	1476.7	14.1
BH - Back-High(60-80)	565.15	5.4
BVH - Back-Very High(80-90)	8.6168	0.1
Total Back Light	3093.7	29.5

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	B3-U0-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	3093.7	0	3093.7
Street Side	7382.1	0	7382.1

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-06-03

Checker: LI

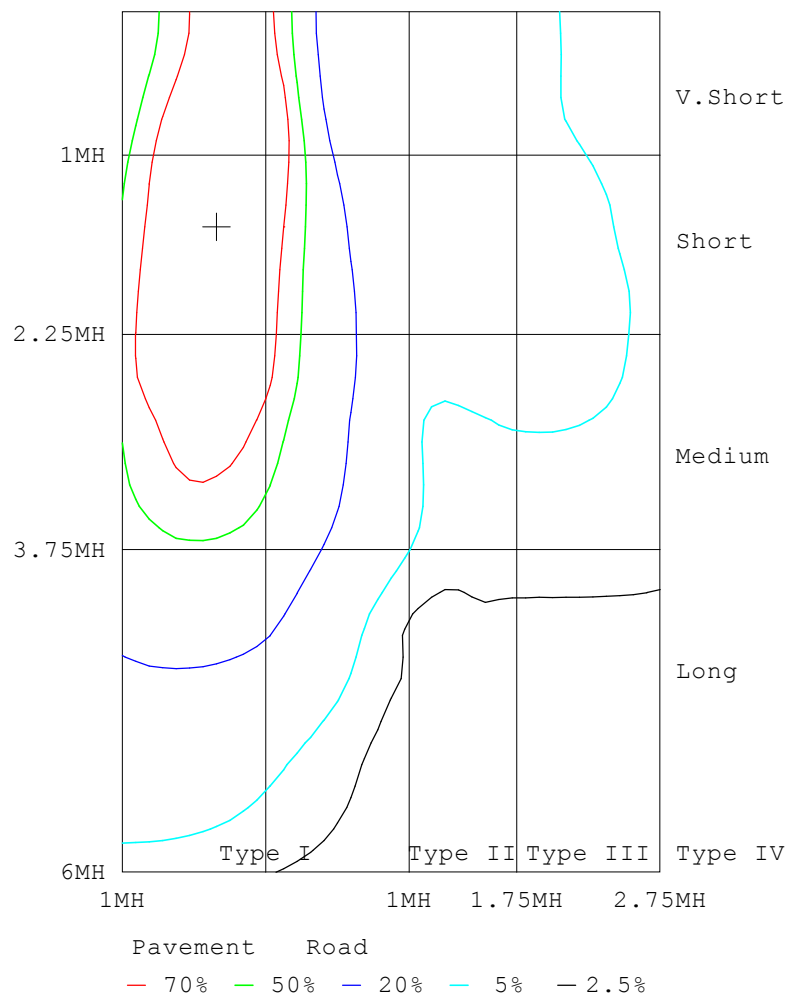
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

ROAD ISOCANDELA REPORT

Test:U:230.1V I:0.3941A P:88.81W PF:0.9794 Lamp Flux:10476x1 lm		
NAME: ST09-090	TYPE:90W	WEIGHT:
SPEC.:4000K Ra70 R09602	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: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-06-03

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Checker: LI

Assessor:

Assessor:

Assessor:

Assessor:

Assessor:

Assessor:

Assessor:

Assessor:

UNIT: cd

Assessor: