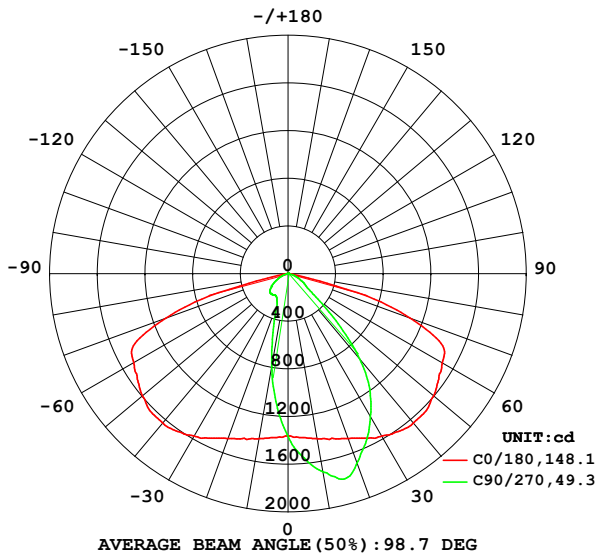
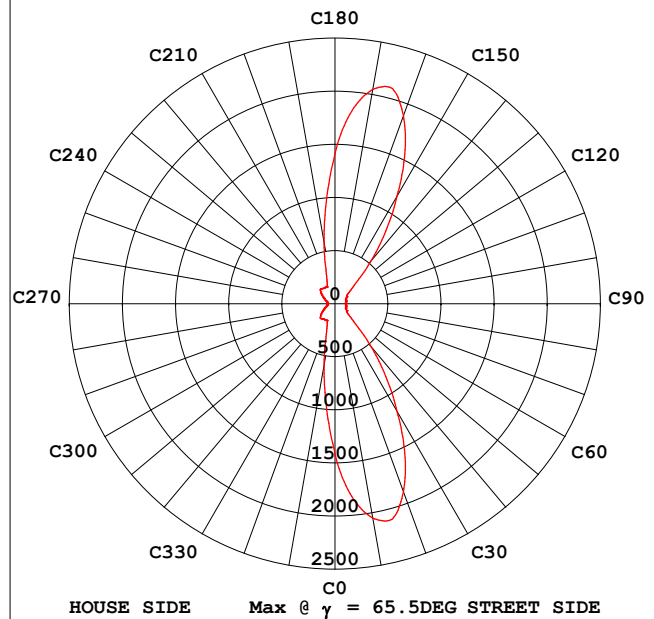


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:230.1V I:0.1304A P:28.89W PF:0.9634 Lamp Flux:3718.85x1 lm		
NAME: ST09-030	TYPE:30W	WEIGHT:
SPEC.:4000K Ra70	DIM.: 0.6796*0.2815*0.2175	SERIAL No.:
MFR.:	SUR.:0.18*0.18	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 128.72 lm/W			
MODEL	ST09-030	Imax(cd)	2096	η street_up(%)	0.0
NOMINAL POWER(W)	30	LOR(%)	100.0	η street_down(%)	74.1
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	3719	η house_up(%)	0.0
NOMINAL FLUX(lm)	3718.85	MAXIMUM @ (C, γ)	15,65.5	η house_down(%)	25.9
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

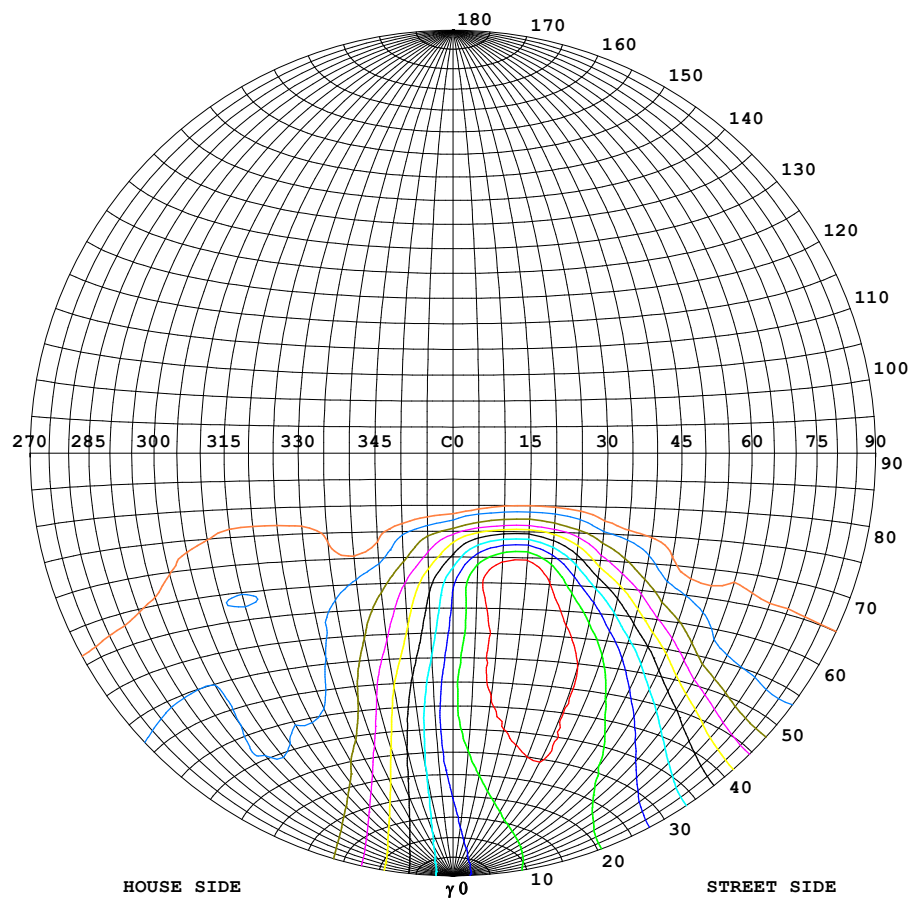
C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-03-14

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:
Note: SLI:Specific Luminaire Index

Assessor:

STREETLIGHT ISOCANDELA DIAGRAM



Classification:

IES:Type II - Short
CIE:Narrow - Intermediate
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:28.29cd/klm
Max.At90:0cd/klm
Max.80-90:28.29cd/klm

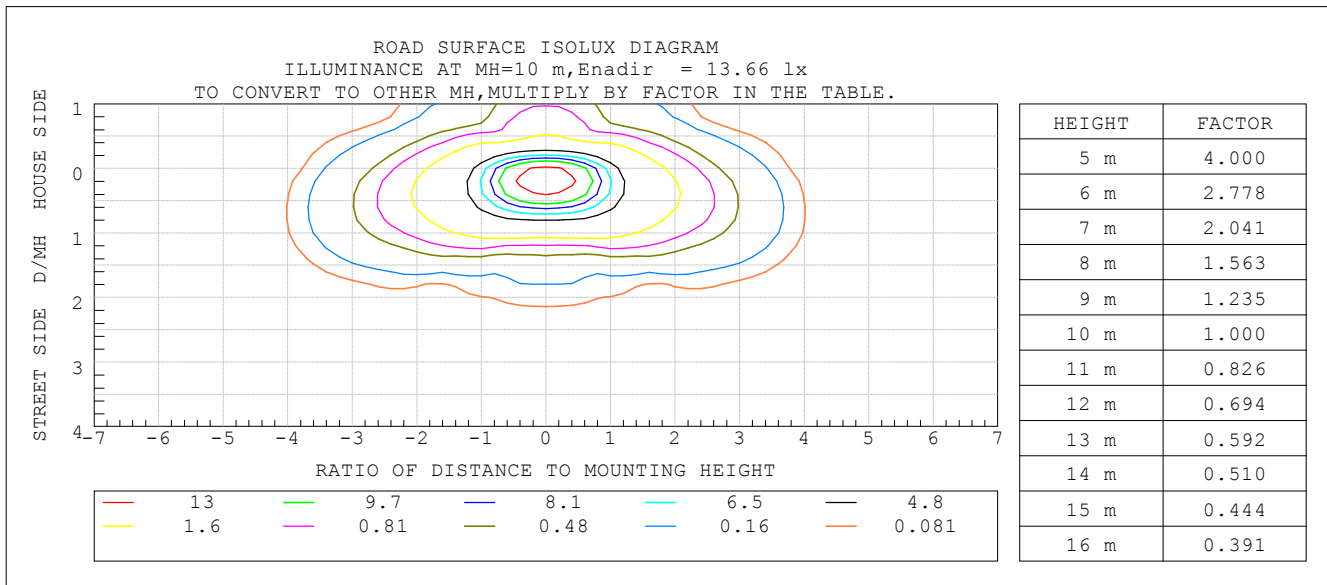
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	2096
90%	1886
80%	1677
70%	1467
60%	1258
50%	1048
40%	838
30%	629
20%	419
10%	210
5%	105

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-03-14

Checker:

gamma Range: 0 - 90DEG
gamma 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: 2017-03-14

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:

Assessor:

ZONAL FLUX DIAGRAM

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
5	1382	1507	1551	1507	1382	1199	1106	1199	0- 5	32.53	32.53	0.87,0.87
10	1406	1621	1689	1621	1406	991.1	792.8	991.1	5- 10	95.44	128.0	3.44,3.44
15	1431	1711	1786	1711	1431	767.1	484.9	767.1	10- 15	152.6	280.6	7.54,7.54
20	1472	1810	1693	1810	1472	547.5	267.4	547.5	15- 20	202.8	483.4	13,13
25	1525	1810	1552	1810	1525	364.7	227.4	364.7	20- 25	244.6	728.0	19.6,19.6
30	1575	1757	1384	1757	1575	261.8	212.6	261.8	25- 30	282.3	1010	27.2,27.2
35	1618	1715	1203	1715	1618	229.6	217.8	229.6	30- 35	315.1	1325	35.6,35.6
40	1637	1631	939.1	1631	1637	207.5	222.8	207.5	35- 40	339.1	1664	44.8,44.8
45	1634	1515	599.6	1515	1634	196.9	216.6	196.9	40- 45	350.2	2015	54.2,54.2
50	1596	1335	306.3	1335	1596	190.7	187.7	190.7	45- 50	345.4	2360	63.5,63.5
55	1544	1043	188.8	1043	1544	183.0	155.8	183.0	50- 55	326.5	2687	72.2,72.2
60	1495	651.2	147.6	651.2	1495	173.7	114.7	173.7	55- 60	304.0	2991	80.4,80.4
65	1432	316.3	105.2	316.3	1432	203.4	79.12	203.4	60- 65	279.9	3270	87.9,87.9
70	1086	122.1	66.58	122.1	1086	172.6	42.99	172.6	65- 70	234.9	3505	94.3,94.3
75	508.7	72.36	6.784	72.36	508.7	126.4	1.474	126.4	70- 75	155.4	3661	98.4,98.4
80	39.77	28.48	0.9961	28.48	39.77	34.45	0.3392	34.45	75- 80	50.27	3711	99.8,99.8
85	4.720	4.905	1.103	4.905	4.720	1.721	0.3930	1.721	80- 85	6.581	3718	100,100
90	0	0	0	0	0	0	0	0	85- 90	1.237	3719	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		

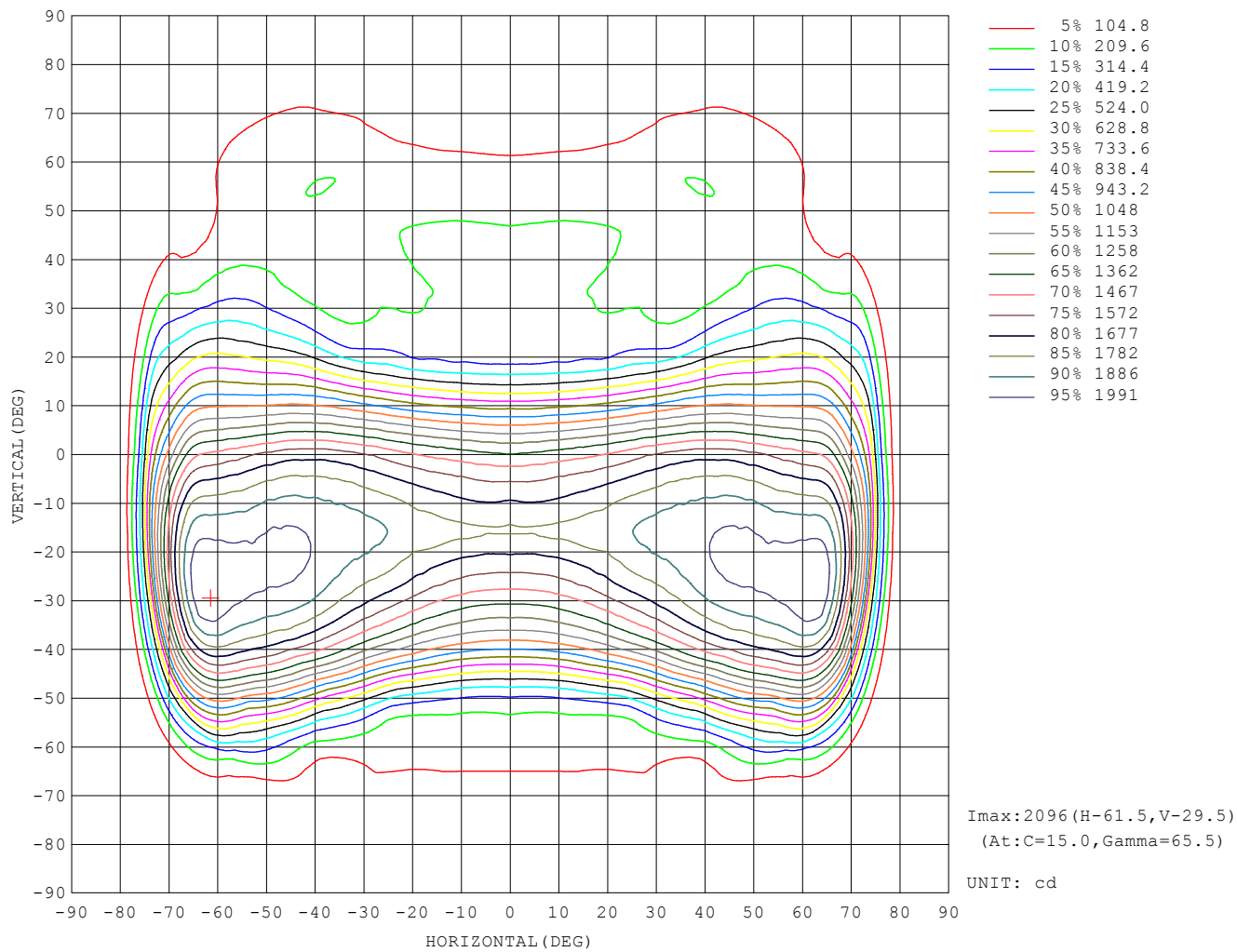
C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-03-14

Checker:

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



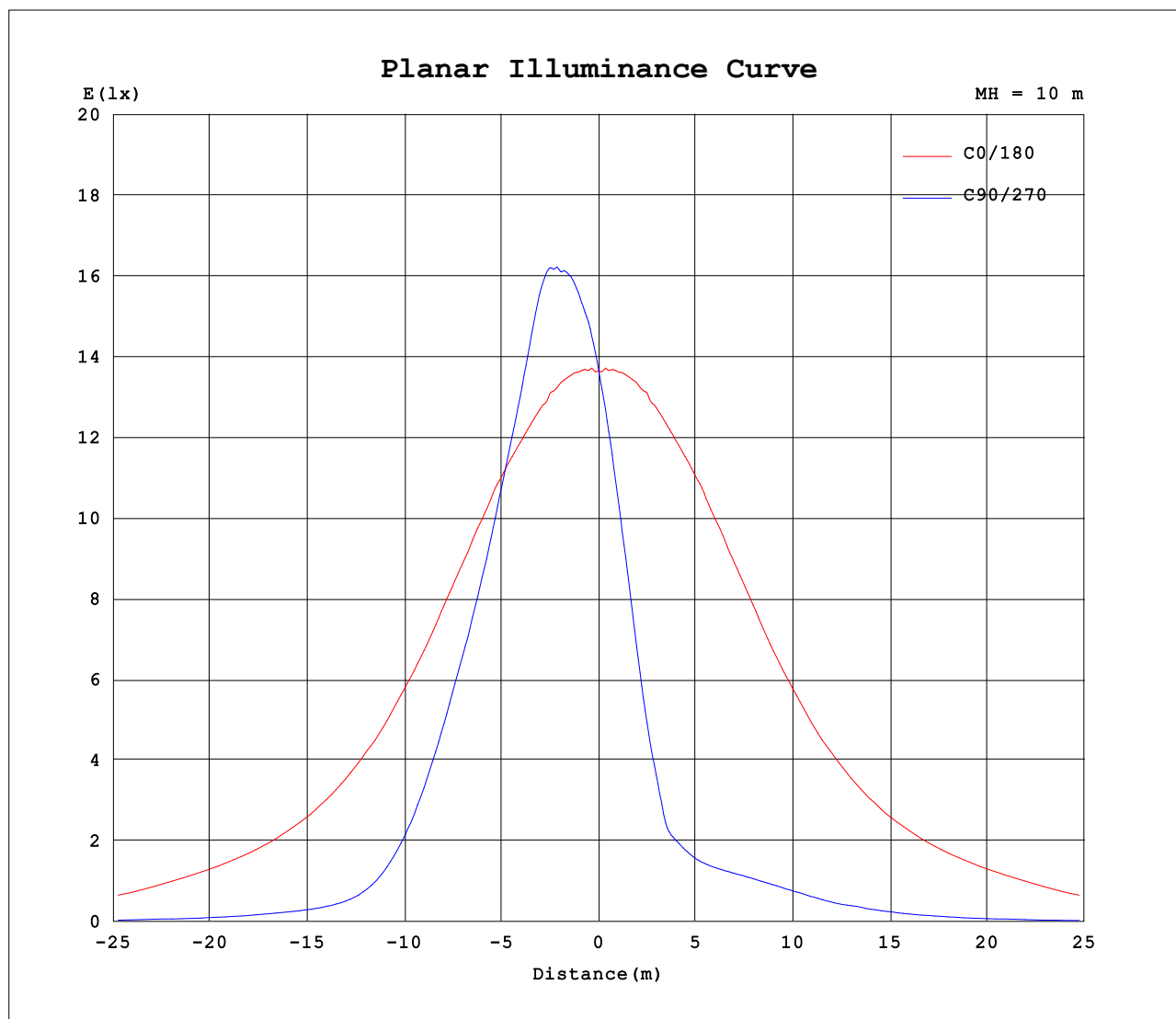
C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2017-03-14

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:

Assessor:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2017-03-14

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:

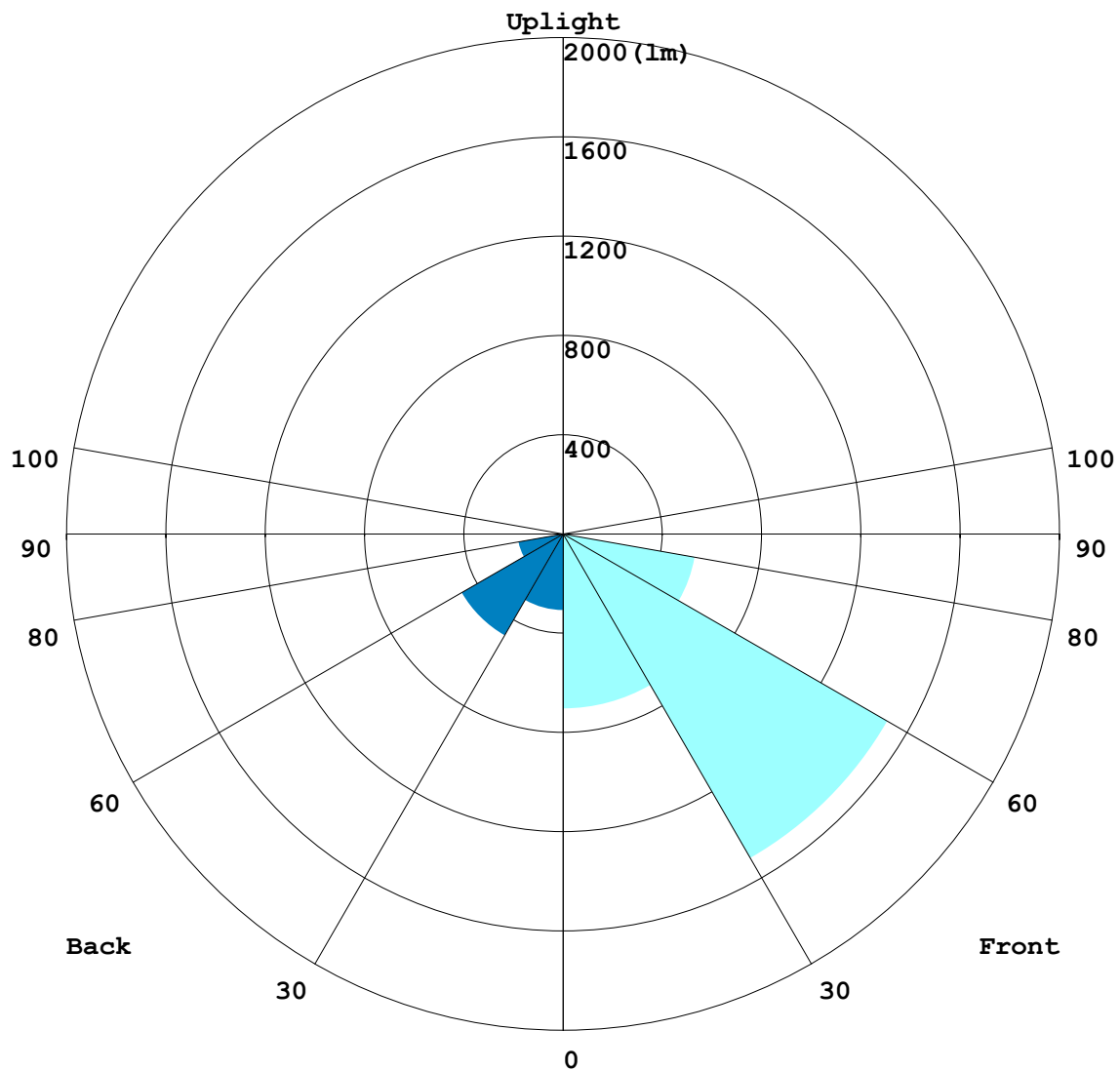
Checker:

Assessor:

LCS REPORT

Test:U:230.1V I:0.1304A P:28.89W PF:0.9634 Lamp Flux:3718.85x1 lm		
NAME: ST09-030	TYPE:30W	WEIGHT:
SPEC.:4000K Ra70	DIM.: 0.6796*0.2815*0.2175	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:2017-03-14

Checker:

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:0.1304A P:28.89W PF:0.9634 Lamp Flux:3718.85x1 lm		
NAME: ST09-030	TYPE:30W	WEIGHT:
SPEC.:4000K Ra70	DIM.: 0.6796*0.2815*0.2175	SERIAL No.:
MFR.:	SUR.:0.18*0.18	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	703.57	18.9
FM - Front-Medium(30-60)	1508.4	40.6
FH - Front-High(60-80)	538.64	14.5
FVH - Front-Very High(80-90)	5.0842	0.1
Total Forward Light	2755.7	74.1

BL - Back-Low(0-30)	306.75	8.2
BM - Back-Medium(30-60)	471.92	12.7
BH - Back-High(60-80)	181.77	4.9
BVH - Back-Very High(80-90)	2.7346	0.1
Total Back Light	963.17	25.9

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	963.17	0	963.17
Street Side	2755.7	0	2755.7

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-03-14

Checker:

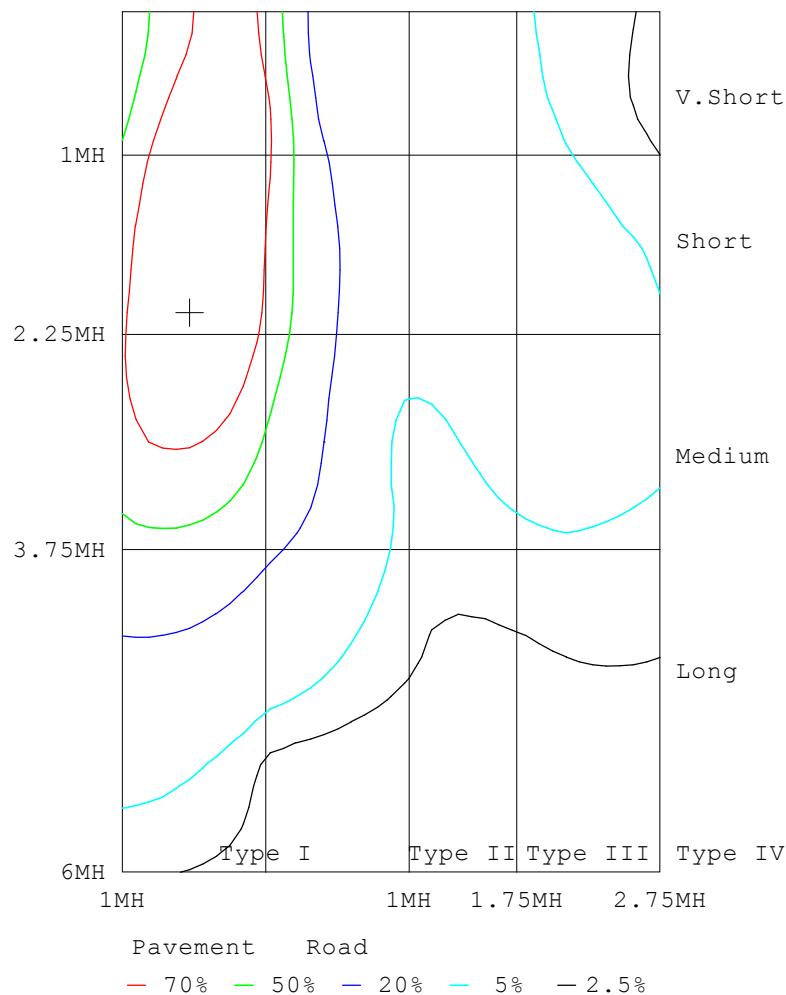
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Assessor:

ROAD ISOCANDELA REPORT

Test:U:230.1V I:0.1304A P:28.89W PF:0.9634 Lamp Flux:3718.85x1 lm		
NAME: ST09-030	TYPE:30W	WEIGHT:
SPEC.:4000K Ra70	DIM.: 0.6796*0.2815*0.2175	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:2017-03-14

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:

Assessor:

Assessor:

Assessor:

Assessor:

Assessor:

Assessor:

Assessor:

Assessor:

Assessor: