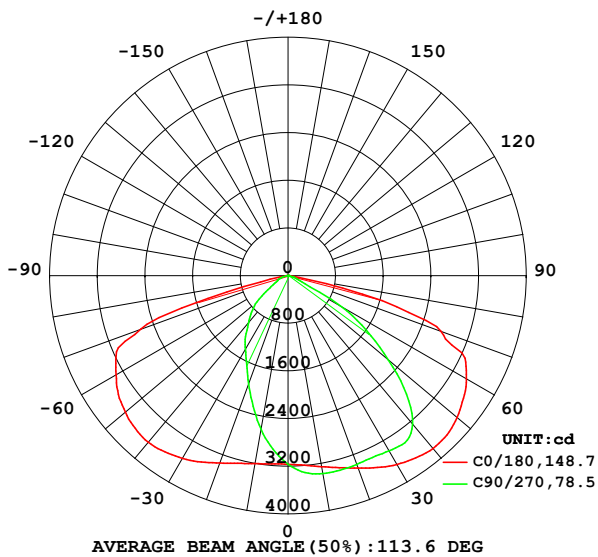
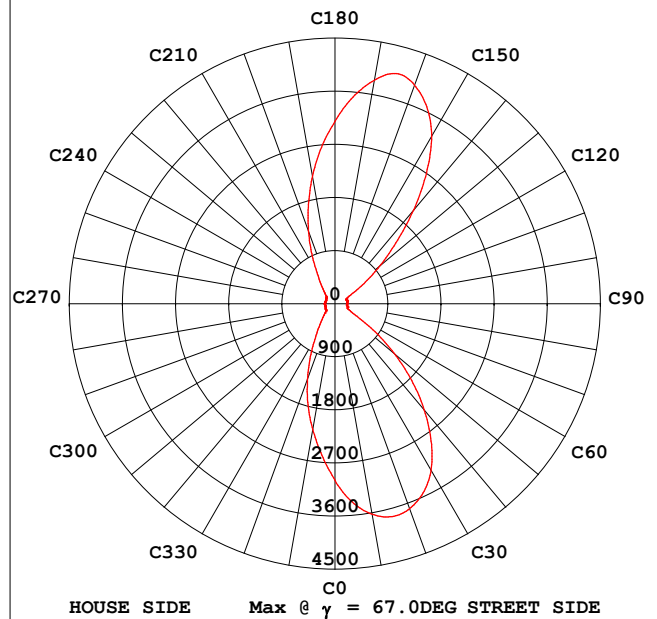


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:229.9V I:0.4017A P:91.01W PF:0.9856 Lamp Flux:10248.8x1 lm		
NAME: ST09-090	TYPE:90W	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: 112.53 lm/W			
MODEL	ST09-090	Imax (cd)	4038	η street_up (%)	0.0
NOMINAL POWER (W)	90	LOR (%)	99.9	η street_down (%)	64.1
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	10241	η house_up (%)	0.0
NOMINAL FLUX (lm)	10248.8	MAXIMUM @ (C, γ)	165,67.0	η house_down (%)	35.8
LAMPS INSIDE	1	η up (%)	0.0	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	230	η down (%)	99.9	SLI	

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

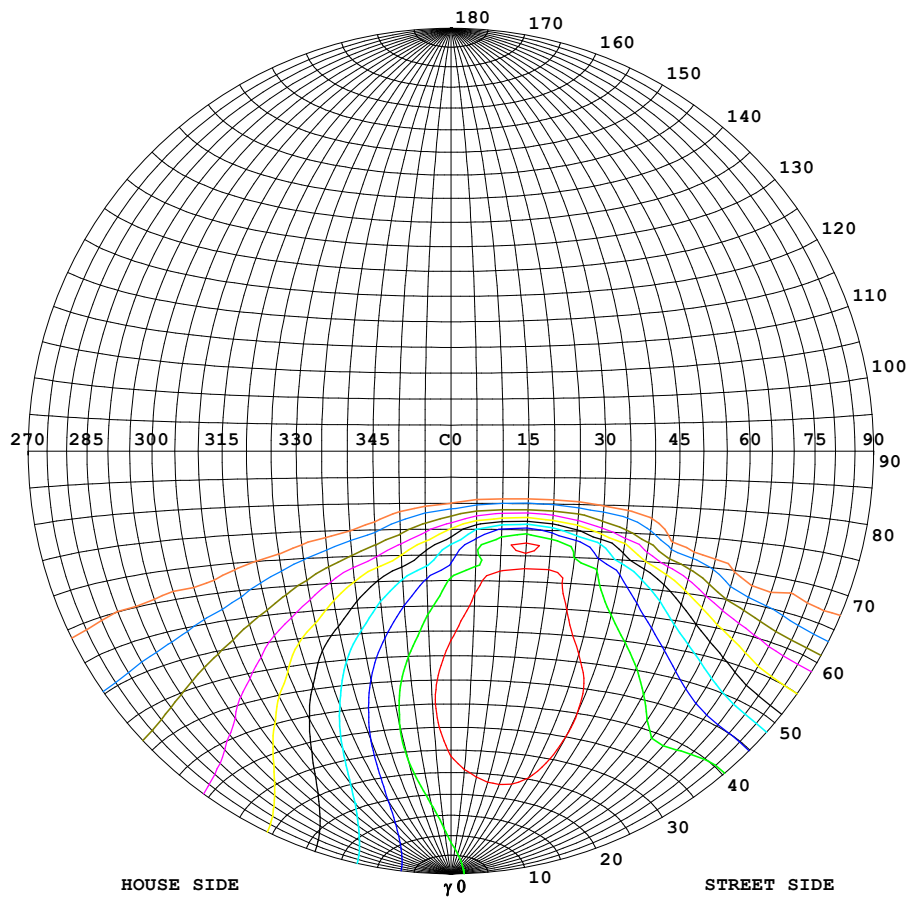
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2016-12-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-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:Average - Intermediate
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:41.54cd/klm
Max.At90:0cd/klm
Max.80-90:41.54cd/klm

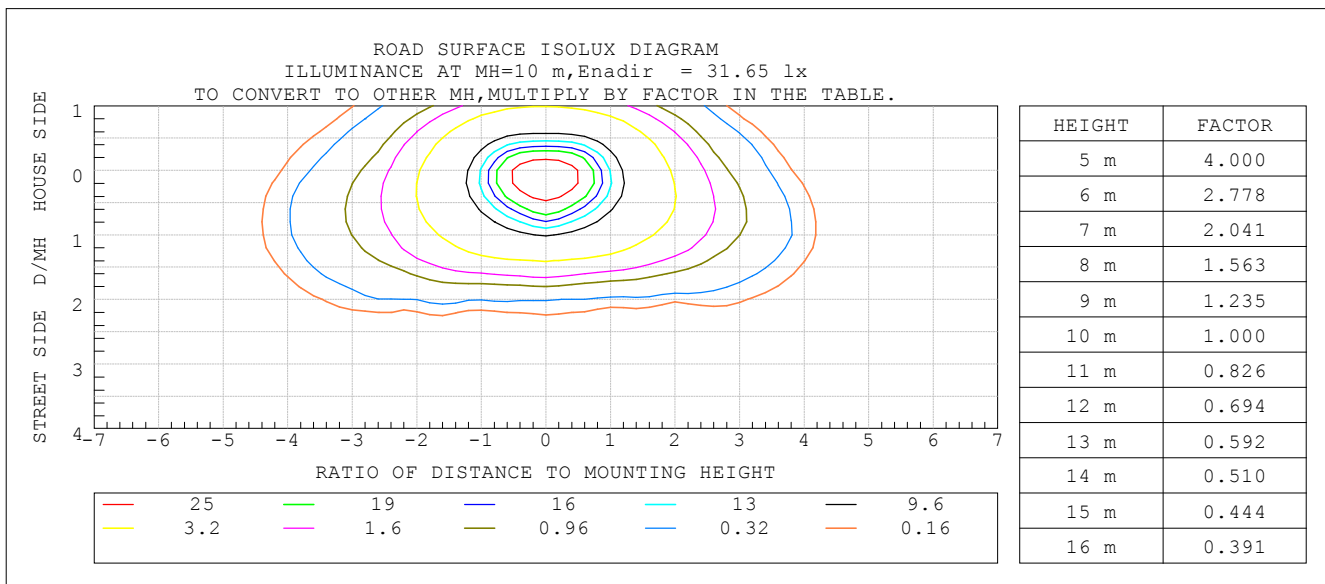
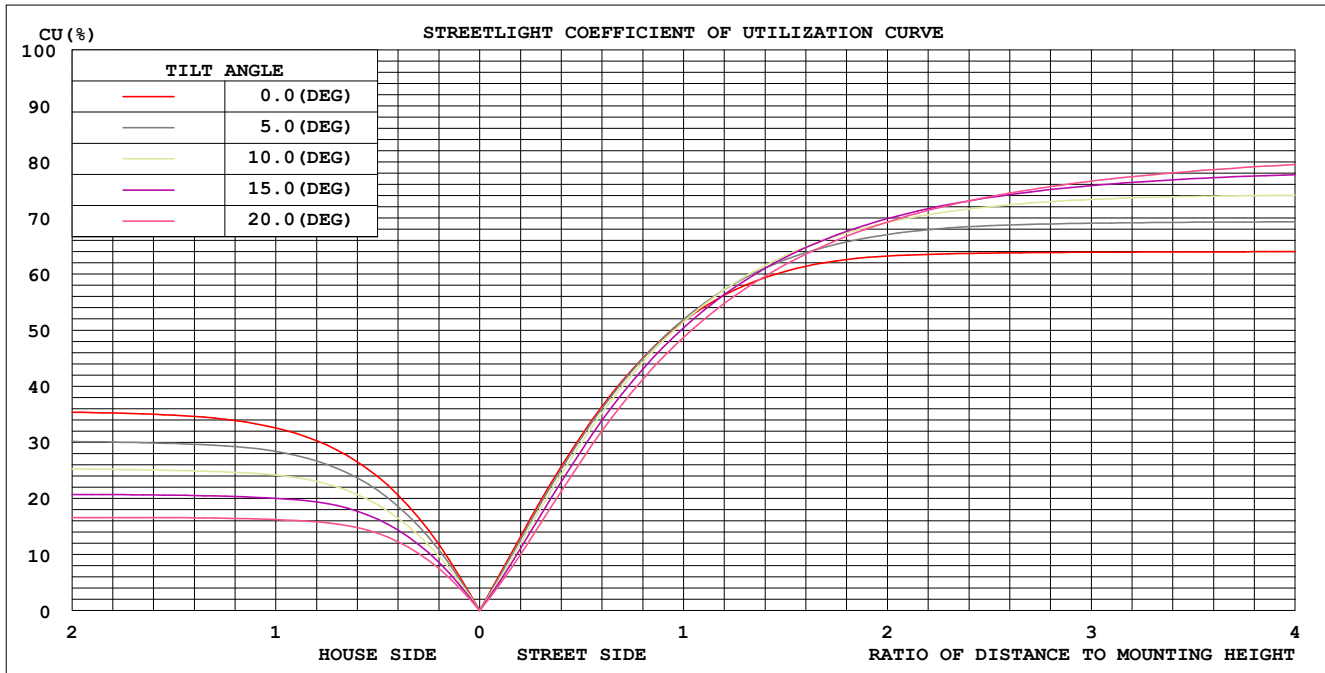
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4038
90%	3635
80%	3231
70%	2827
60%	2423
50%	2019
40%	1615
30%	1212
20%	808
10%	404
5%	202

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2016-12-05

Checker:

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

Assessor:

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2016-12-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-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	3255	3398	3374	3367	3204	2842	2622	2840	0- 10	299.6	299.6	2.93,2.92
20	3437	3492	3373	3431	3347	2470	1937	2460	10- 20	863.9	1163	11.4,11.4
30	3659	3475	3395	3443	3542	2112	1434	2119	20- 30	1361	2525	24.7,24.6
40	3786	3436	3254	3420	3651	1750	1034	1796	30- 40	1784	4308	42.1,42
50	3705	3247	2200	3206	3566	1288	686.6	1333	40- 50	2012	6320	61.7,61.7
60	3454	2685	1014	2589	3331	674.1	257.4	695.4	50- 60	1906	8226	80.3,80.3
70	2730	1013	150.4	583.7	2631	169.1	145.6	177.8	60- 70	1429	9655	94.3,94.2
80	198.9	37.02	6.378	34.75	63.22	35.55	2.395	40.88	70- 80	568.0	10223	99.8,99.8
90	0	0	0	0	0	0	0	0	80- 90	17.33	10241	100,99.9
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		

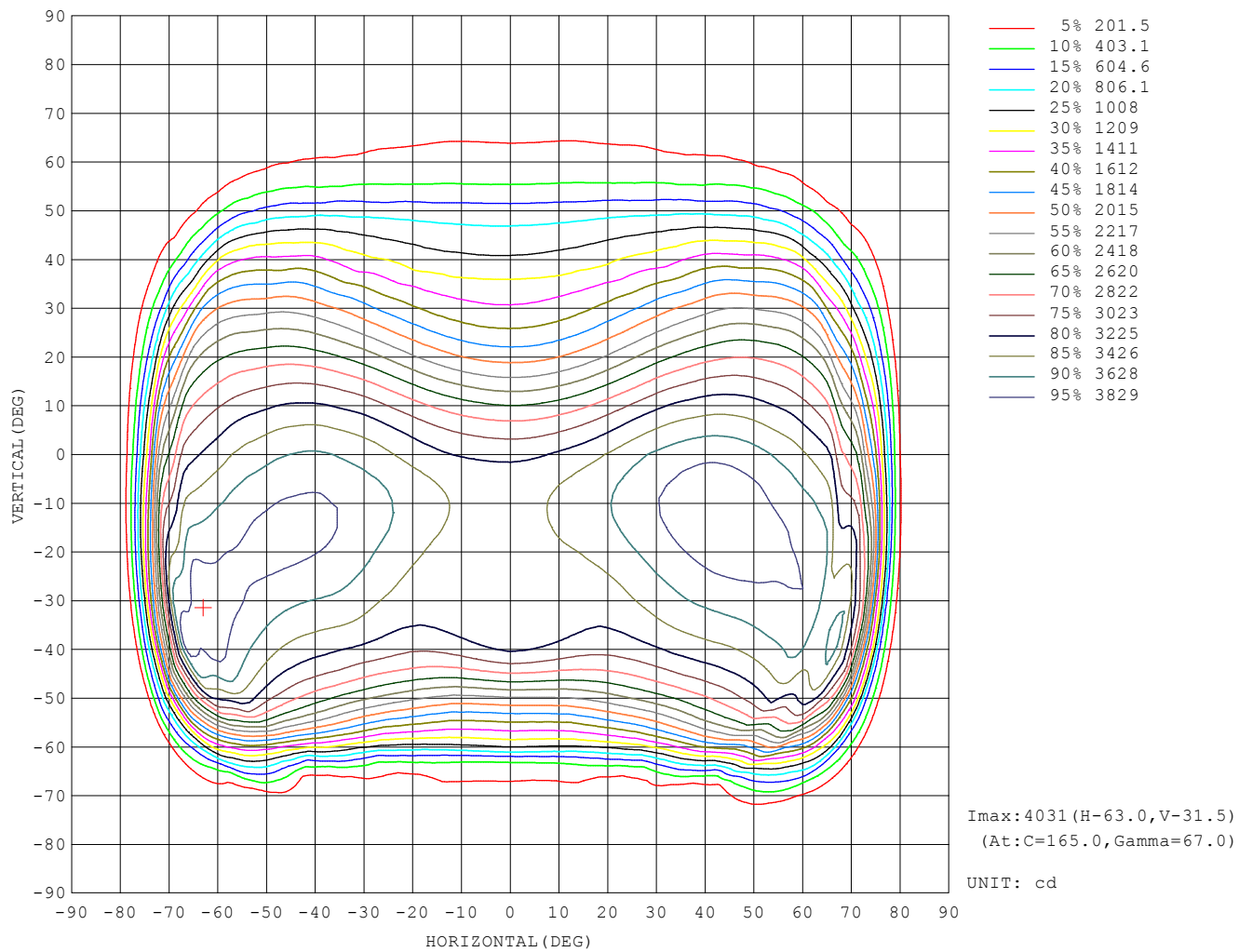
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2016-12-05

Checker:

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

Assessor:

ISOCANDELA DIAGRAM



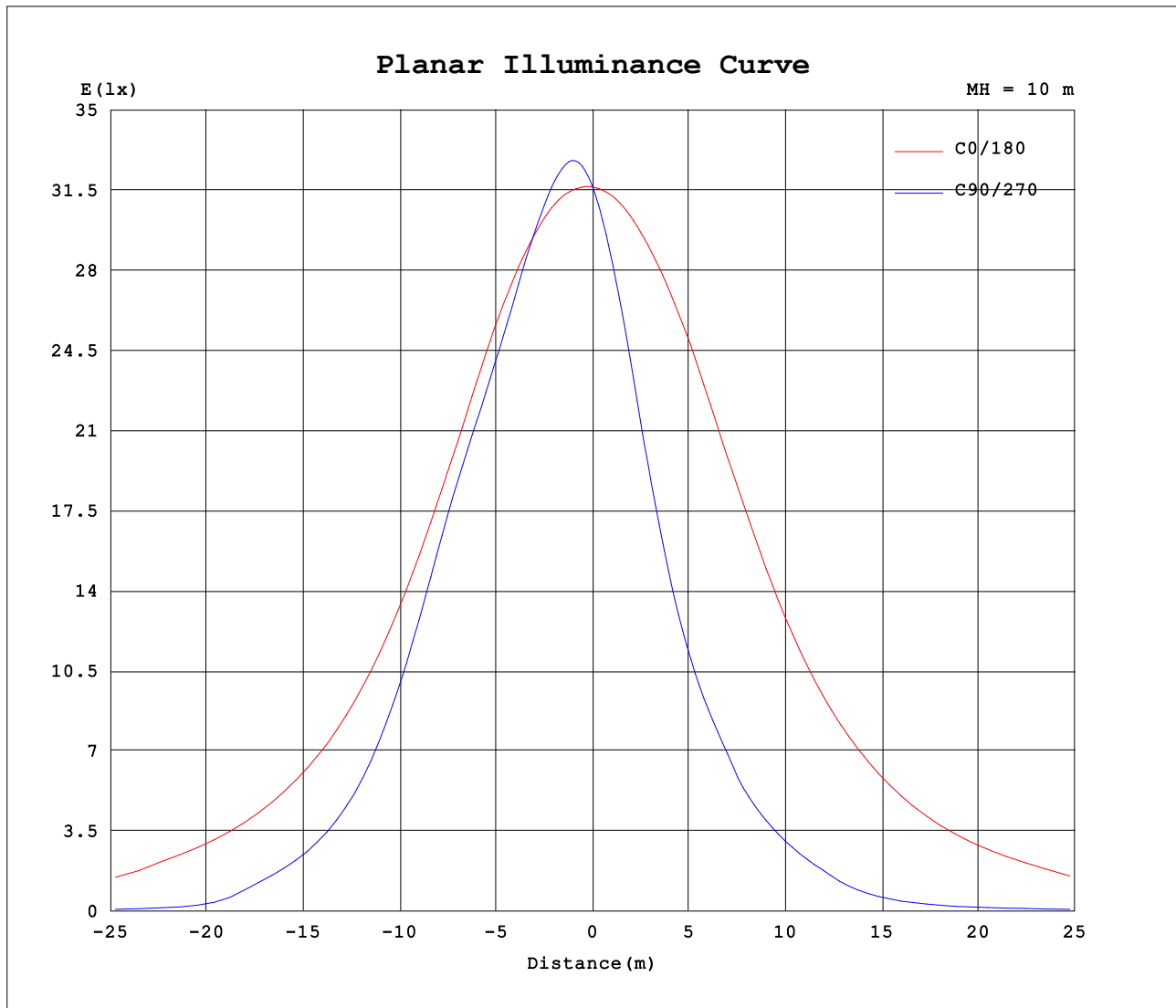
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2016-12-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-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: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2016-12-05

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

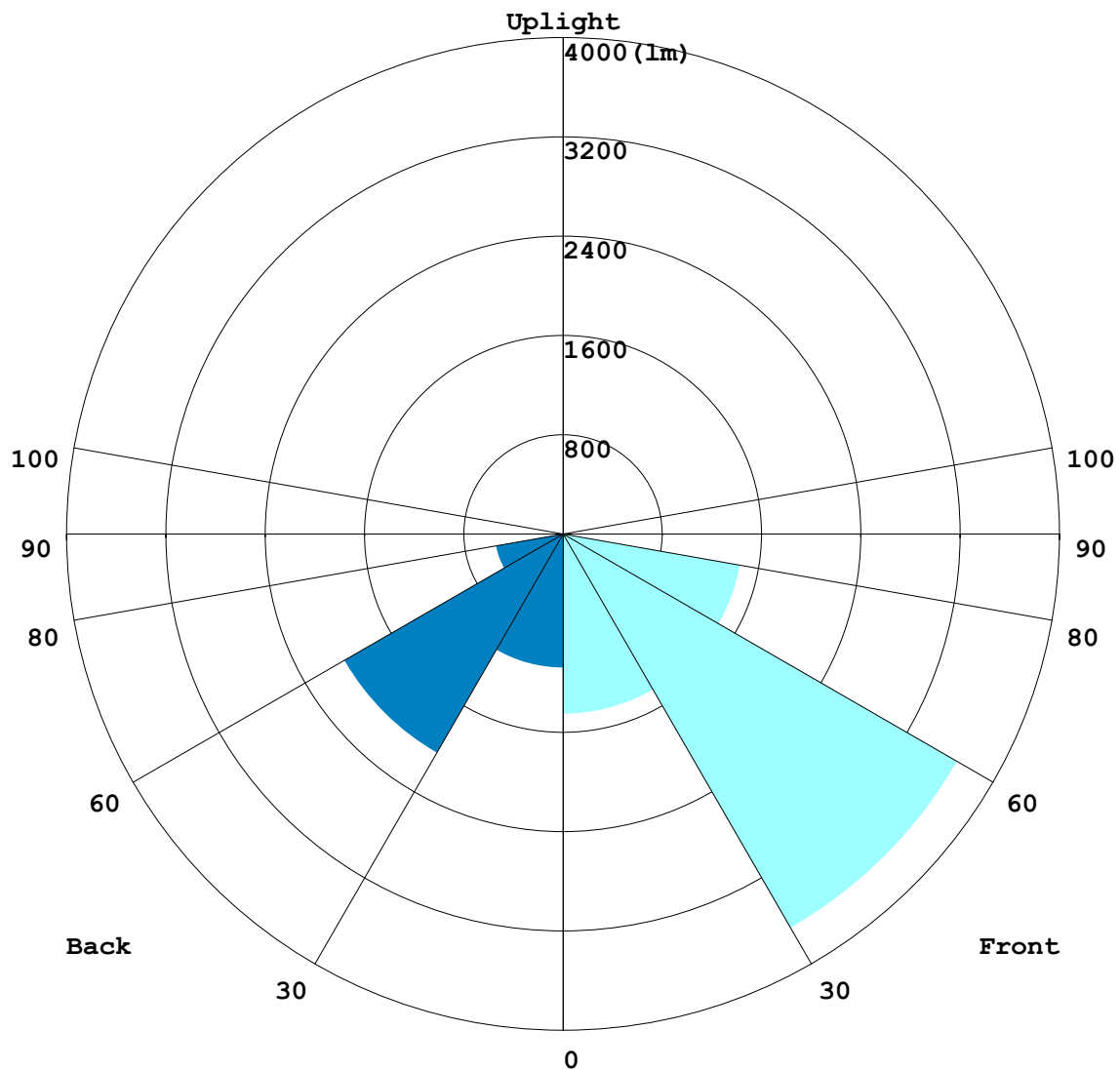
Checker:

Assessor:

LCS REPORT

Test:U:229.9V I:0.4017A P:91.01W PF:0.9856 Lamp Flux:10248.8x1 lm		
NAME: ST09-090	TYPE:90W	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: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2016-12-05

Checker:

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-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:0.4017A P:91.01W PF:0.9856 Lamp Flux:10248.8x1 lm		
NAME: ST09-090	TYPE:90W	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)	1448	14.1
FM - Front-Medium(30-60)	3665.2	35.8
FH - Front-High(60-80)	1447.6	14.1
FVH - Front-Very High(80-90)	10.911	0.1
Total Forward Light	6571.7	64.2

BL - Back-Low(0-30)	1076.9	10.5
BM - Back-Medium(30-60)	2036.1	19.9
BH - Back-High(60-80)	549.54	5.4
BVH - Back-Very High(80-90)	6.4196	0.1
Total Back Light	3669	35.8

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	3669	0	3669
Street Side	6571.7	0	6571.7

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2016-12-05

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

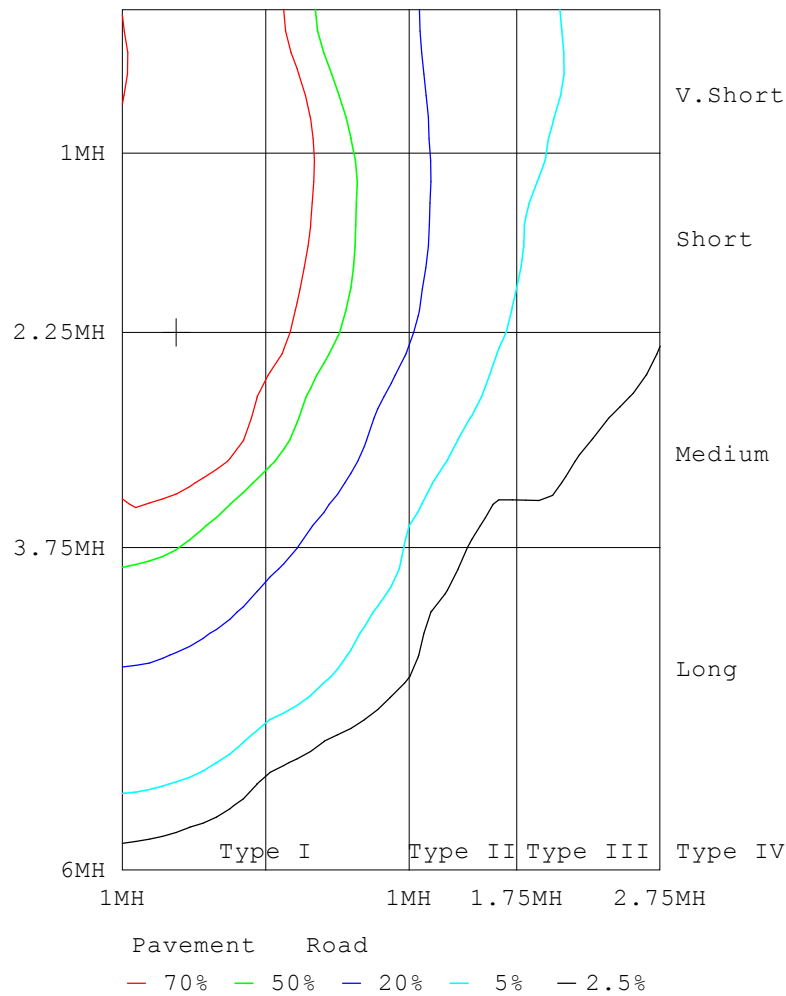
Checker:

Assessor:

ROAD ISOCANDELA REPORT

Test:U:229.9V I:0.4017A P:91.01W PF:0.9856 Lamp Flux:10248.8x1 lm		
NAME: ST09-090	TYPE:90W	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: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2016-12-05

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

Checker:

Assessor:

Assessor:

Assessor:

Assessor:

Assessor: