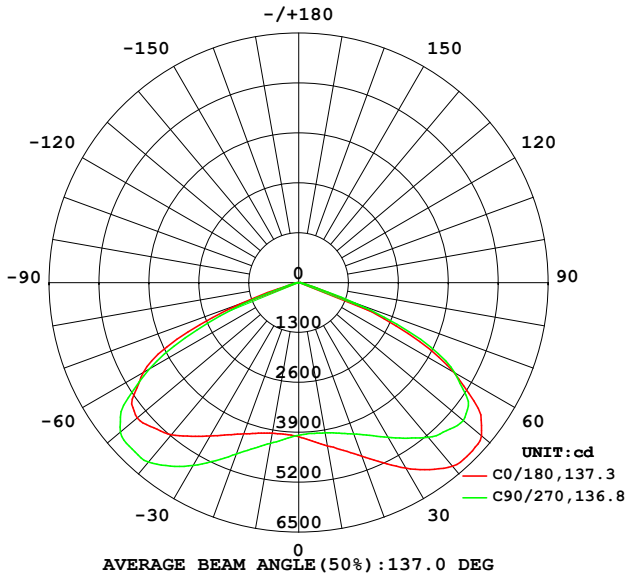
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.03V I:1.2826A P:152.61W PF:0.9913 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:21532.3x1 lm		
NAME: PTL-R1-SW3B150S-SC	TYPE: 150W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.: 0.40*0.40	Shielding Angle:

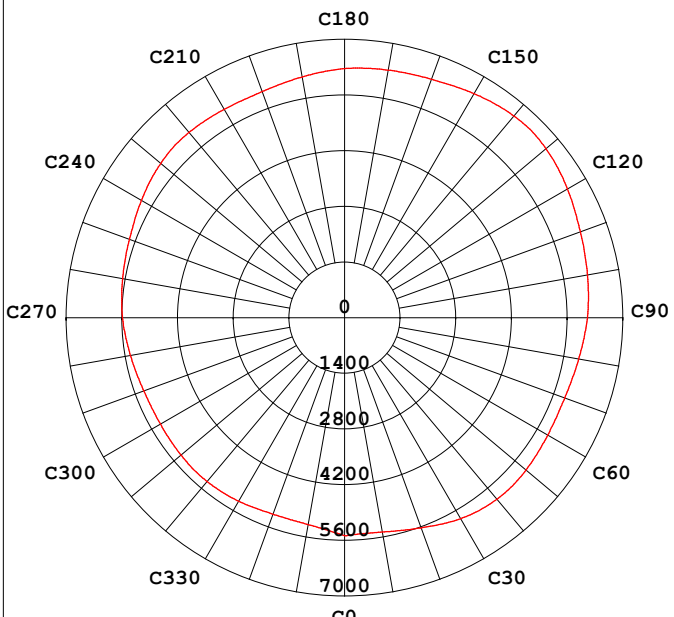
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 141.09 lm/W	
MODEL	PTL-R1-SW3B150S-SC	Imax(cd)	6648	□ street_up(%)	0.0
NOMINAL POWER(W)	150	LOR(%)	100.0	□ street_down(%)	50.8
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	21532	□ house_up(%)	0.0
NOMINAL FLUX(lm)	21532.3	MAXIMUM @(C,□)	135,49.0	□ house_down(%)	49.2
LAMPS INSIDE	1	□ up(%)	0.0	76 FLASHAREA(m2)	
TEST VOLTAGE(V)	120	□ down(%)	100.0	SLI	

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



AVERAGE BEAM ANGLE(50%):137.0 DEG

MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM



HOUSE SIDE Max @ □ = 49.0DEG STREET SIDE

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-03-15

□ Range: 0 - 90DEG
□ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.680m [K=1.0000]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

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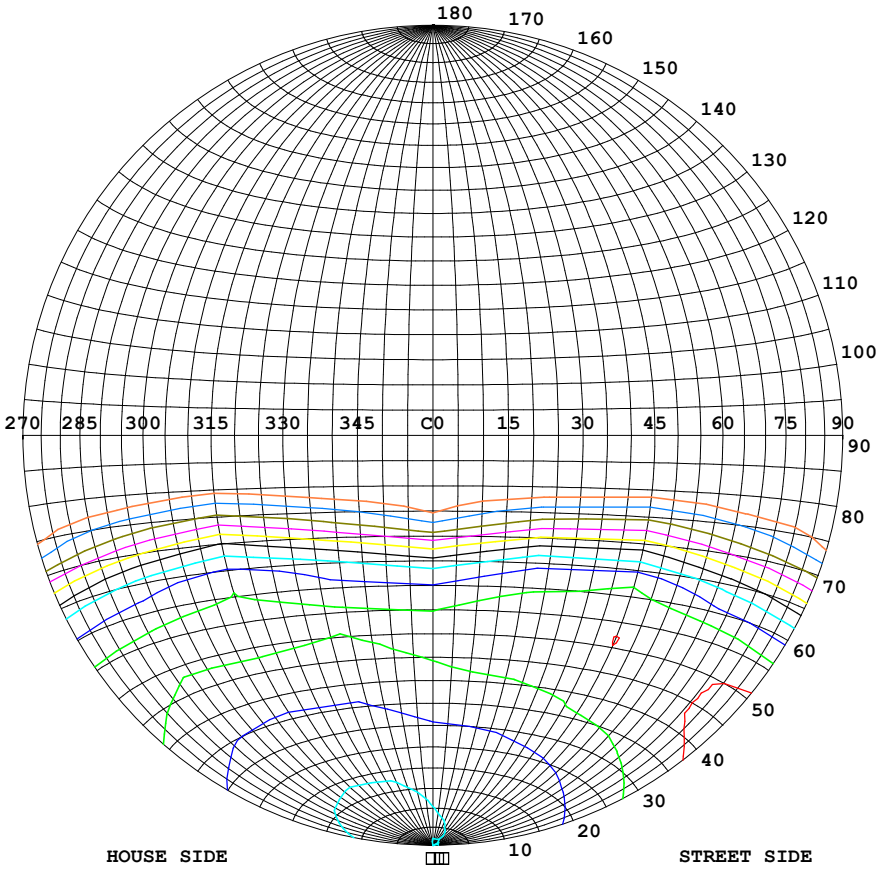
NAME: PTL-R1-SW3B150S-SC	TYPE: 150W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.: 0.40*0.40	Shielding Angle:



Classification:

IES:Type VS - Very Short
CIE:Average - Short
IES:Cut-off
CIE:Full cut-off
Max.At80:10.33cd/klm
Max.At90:1.480cd/klm
Max.80-90:10.33cd/klm
NRB 5101:Limited[2.3%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	6648
90%	5983
80%	5318
70%	4654
60%	3989
50%	3324
40%	2659
30%	1994
20%	1330
10%	665
5%	332

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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
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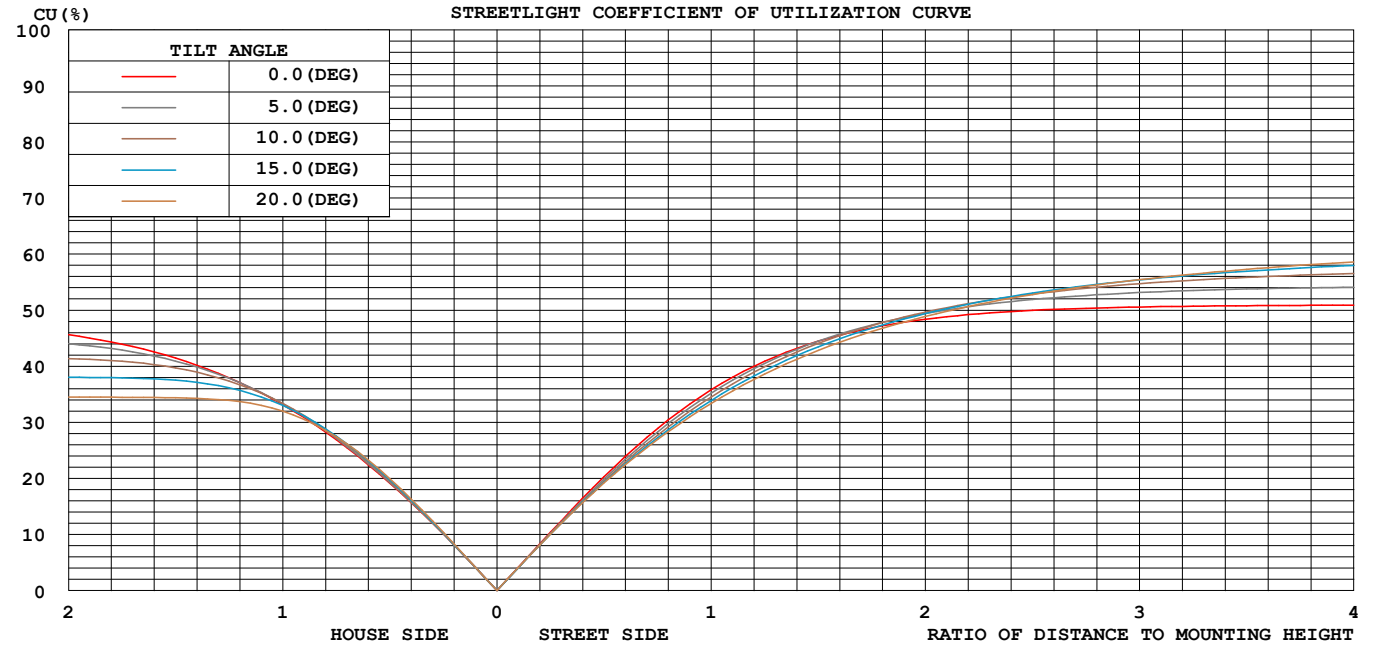
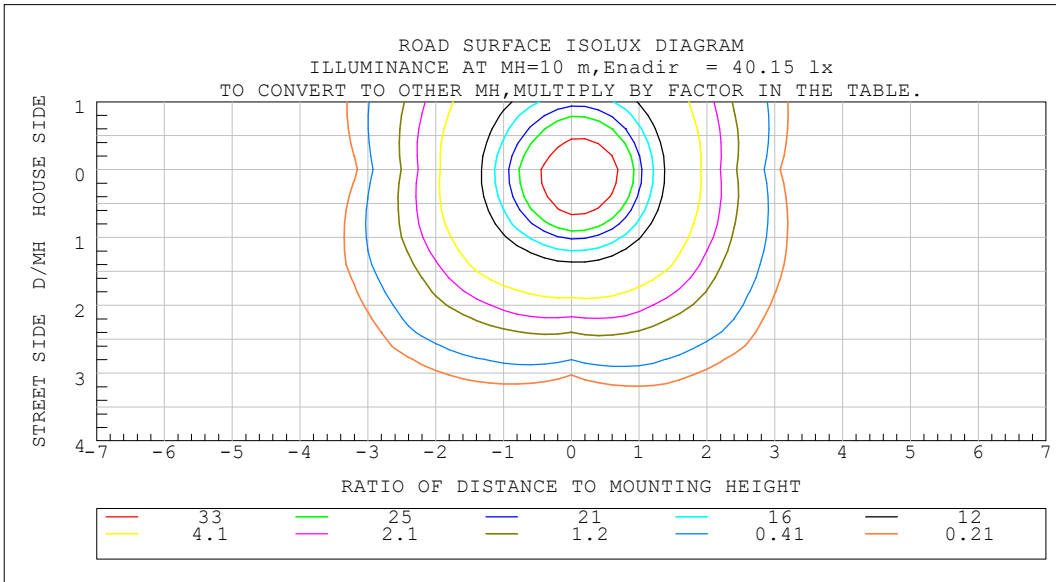
Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM





According to LB/T001-2008:
U = Emin/Eavg = 0.571
Eavg = 43.42 lx

HEIGHT	FACTOR
5 m	4.000
6 m	2.778
7 m	2.041
8 m	1.563
9 m	1.235
10 m	1.000
11 m	0.826
12 m	0.694
13 m	0.592
14 m	0.510
15 m	0.444
16 m	0.391

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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.680m [K=1.0000]
Remarks:

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ZONAL FLUX DIAGRAM

Test:U:120.03V I:1.2826A P:152.61W PF:0.9913 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:21532.3x1 lm		
NAME: PTL-R1-SW3B150S-SC	TYPE: 150W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.: 0.40*0.40	Shielding Angle:

□	C0	C45	C90	C135	C180	C225	C270	C315	□	□ zone	□ total	%lum,lamp
10	3985	4100	4251	4309	4317	4139	3977	3871	0- 10	386.7	386.7	1.8,1.8
20	4193	4394	4750	4841	4808	4463	4196	4018	10- 20	1214	1601	7.43,7.43
30	4612	4881	5500	5606	5580	4968	4650	4319	20- 30	2190	3790	17.6,17.6
40	5172	5523	6101	6358	6244	5637	5261	4840	30- 40	3341	7131	33.1,33.1
50	5488	5981	6062	6609	6212	6070	5598	5429	40- 50	4488	11619	54,54
60	4673	5483	4487	5588	4666	5532	4690	5336	50- 60	5048	16668	77.4,77.4
70	1622	2935	1203	2728	1321	3360	1570	3356	60- 70	3828	20496	95.2,95.2
80	126.7	206.3	124.6	181.3	122.5	177.1	122.9	222.4	70- 80	965.2	21461	99.7,99.7
90	26.34	25.47	26.39	24.84	31.88	30.60	30.79	31.20	80- 90	71.38	21532	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		

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Operators:DAMIN
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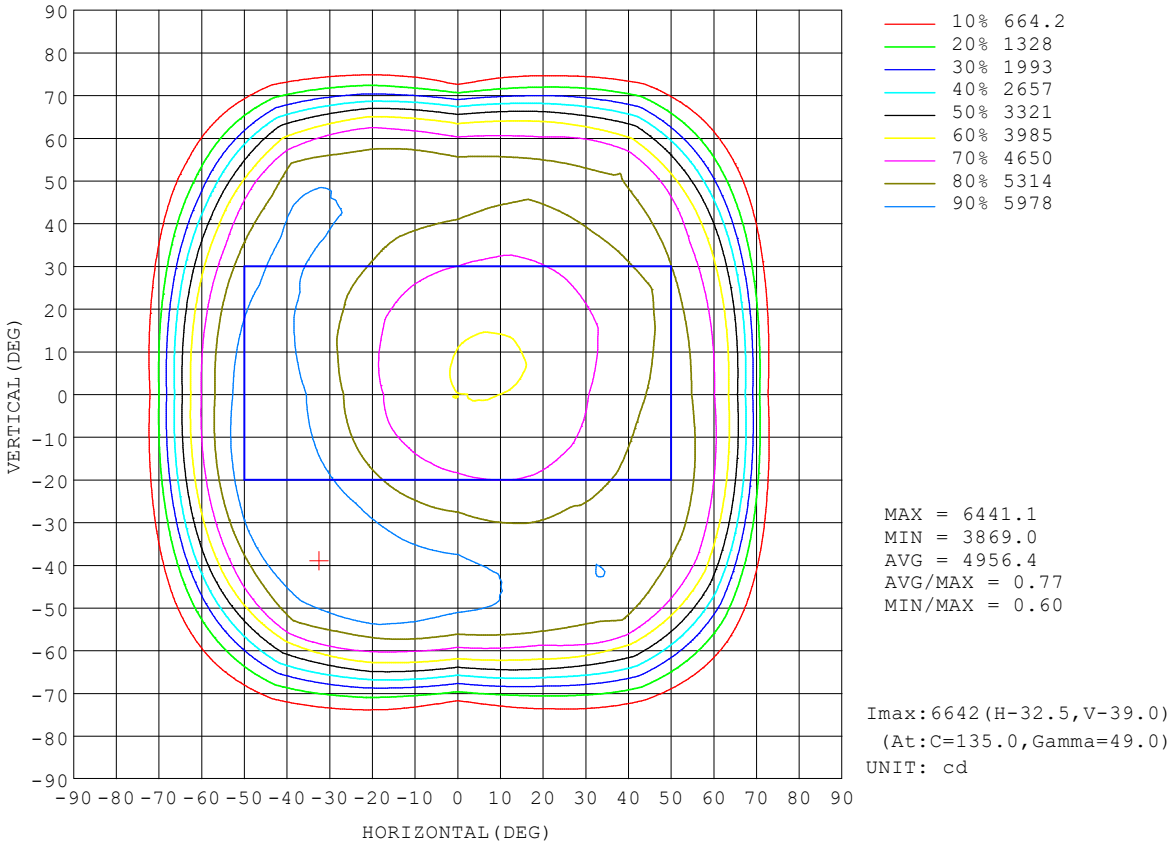
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.680m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.03V I:1.2826A P:152.61W PF:0.9913 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:21532.3x1 lm		
NAME:PTL-R1-SW3B150S-SC	TYPE: 150W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.: 0.40*0.40	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
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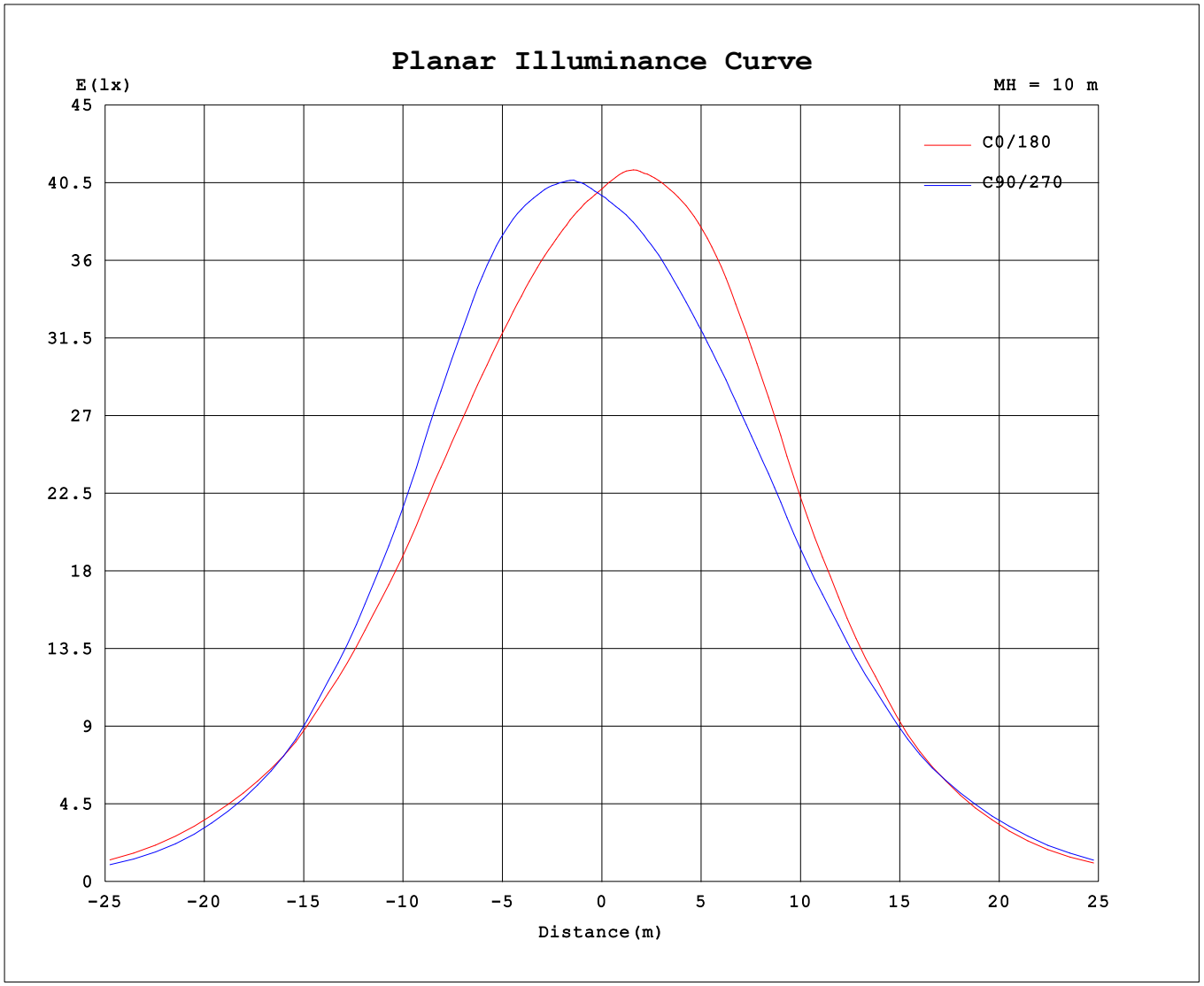
Humidity:65.0%
Test Distance:9.680m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
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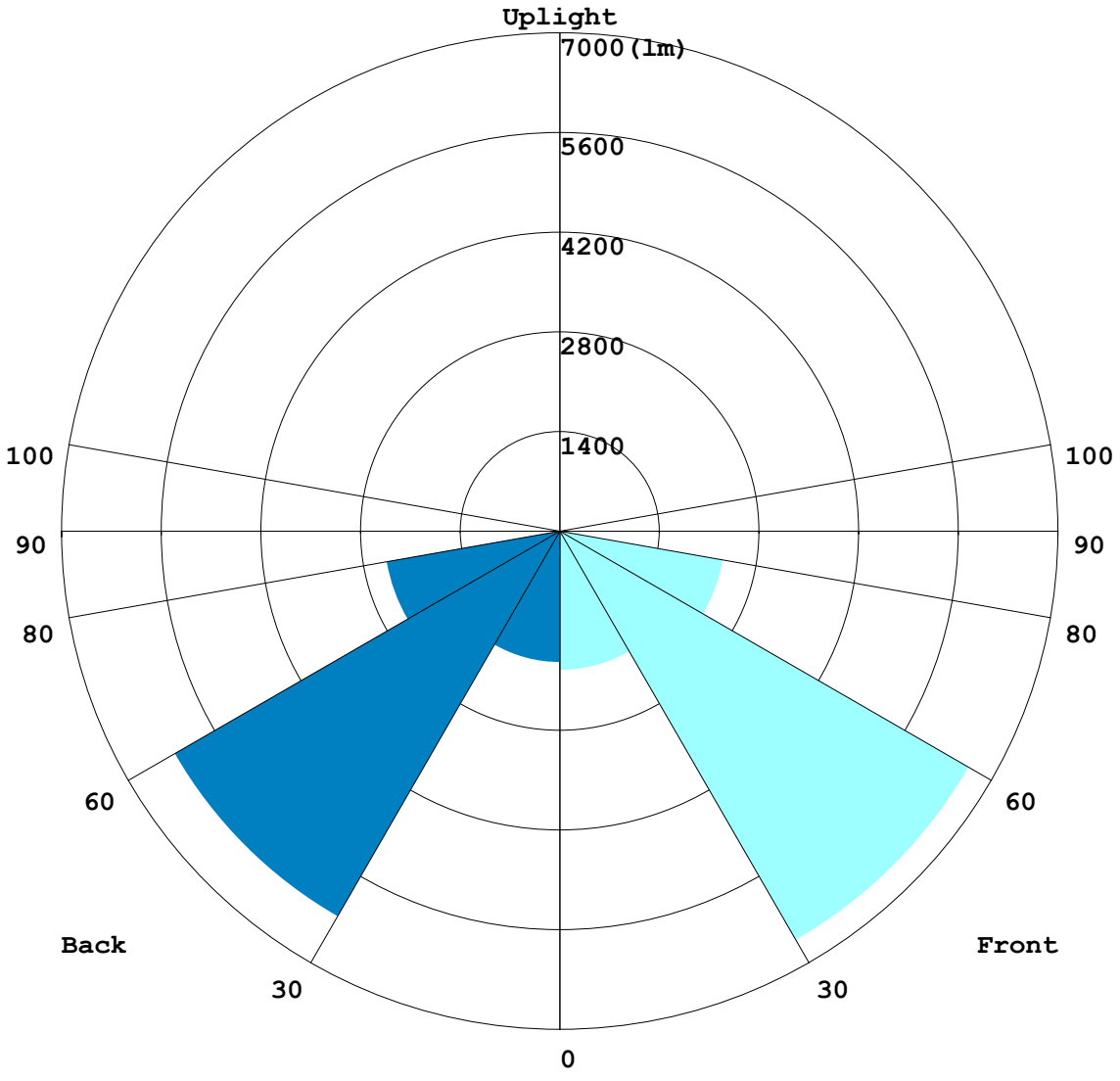
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.680m [K=1.0000]
Remarks:

LCS REPORT

Test:U:120.03V I:1.2826A P:152.61W PF:0.9913 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:21532.3x1 lm		
NAME: PTL-R1-SW3B150S-SC	TYPE: 150W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.: 0.40*0.40	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-03-15

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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.680m [K=1.0000]
Remarks:

BUG REPORT

Test:U:120.03V I:1.2826A P:152.61W PF:0.9913 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:21532.3x1 lm		
NAME: PTL-R1-SW3B150S-SC	TYPE: 150W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.: 0.40*0.40	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1951.2	9.1
FM - Front-Medium(30-60)	6628.8	30.8
FH - Front-High(60-80)	2322.5	10.8
FVH - Front-Very High(80-90)	34.662	0.2
Total Forward Light	10937	50.8
BL - Back-Low(0-30)	1839.2	8.5
BM - Back-Medium(30-60)	6248.3	29.0
BH - Back-High(60-80)	2470.9	11.5
BVH - Back-Very High(80-90)	36.715	0.2
Total Back Light	10595	49.2
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	B4-U0-G2

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	10595	0	10595
Street Side	10937	0	10937

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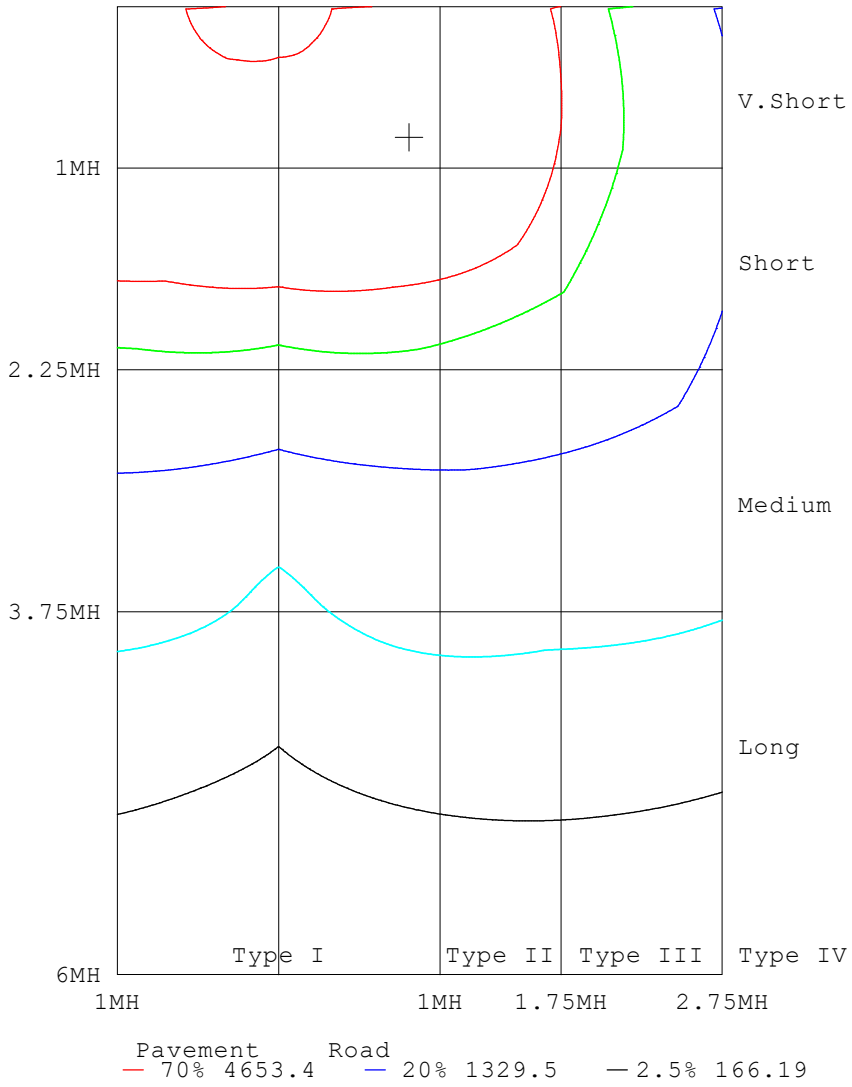
Humidity:65.0%
Test Distance:9.680m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:120.03V I:1.2826A P:152.61W PF:0.9913 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:21532.3x1 lm		
NAME: PTL-R1-SW3B150S-SC	TYPE: 150W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.: 0.40*0.40	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2023-03-15

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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.680m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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MFR.: EVERFINE	SUR.: 0.40*0.40	Shielding Angle:

Table--1 UNIT: cd

□ (DEG) \ C(DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	4015	4004	3991	3984	3976	3963	3957	3949	4015	4004	3991	3984	3976	3963	3957	3949			
5	3972	3991	4016	4055	4089	4104	4108	4099	4145	4097	4037	3987	3944	3905	3883	3884			
10	3985	4038	4100	4177	4251	4290	4309	4291	4317	4232	4139	4054	3977	3909	3871	3880			
15	4063	4133	4221	4340	4465	4524	4535	4515	4525	4404	4274	4167	4062	3973	3921	3934			
20	4193	4280	4394	4570	4750	4830	4841	4821	4808	4644	4463	4328	4196	4085	4018	4045			
25	4374	4465	4611	4847	5113	5196	5196	5192	5176	4939	4683	4525	4393	4231	4146	4185			
30	4612	4686	4881	5168	5500	5575	5606	5595	5580	5262	4968	4769	4650	4425	4319	4373			
35	4887	4956	5215	5475	5832	5918	6032	5966	5945	5584	5309	5069	4945	4670	4556	4608			
40	5172	5252	5523	5739	6101	6215	6358	6274	6244	5868	5637	5391	5261	4952	4840	4873			
45	5345	5526	5773	5897	6132	6368	6553	6443	6298	6044	5902	5674	5453	5220	5128	5132			
50	5488	5708	5981	5878	6062	6332	6609	6377	6212	6026	6070	5808	5598	5392	5429	5301			
55	5292	5767	5977	5676	5572	6085	6402	6092	5716	5800	6049	5809	5392	5448	5598	5369			
60	4673	5178	5483	4779	4487	5102	5588	5061	4666	4909	5532	5237	4690	4903	5336	4823			
65	3507	4430	4546	3656	2932	3864	4410	3821	3147	3795	4809	4491	3507	4147	4743	4096			
70	1622	2705	2935	1930	1203	2075	2728	2020	1321	2047	3360	2704	1570	2501	3356	2468			
75	292	934	1165	626	249	670	1045	643	260	658	1382	893	273	836	1441	839			
80	127	169	206	155	125	155	181	152	122	147	177	154	123	171	222	178			
85	50.2	51.2	46.6	53.7	49.9	50.2	43.4	49.1	52.8	53.4	48.1	51.0	50.2	54.5	51.3	58.8			
90	26.3	25.1	25.5	25.8	26.4	24.7	24.8	24.9	31.9	30.7	30.6	30.1	30.8	31.1	31.2	30.5			

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Test Speed: HIGH
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Operators:DAMIN
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□ Range: 0 - 90DEG
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Humidity:65.0%
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