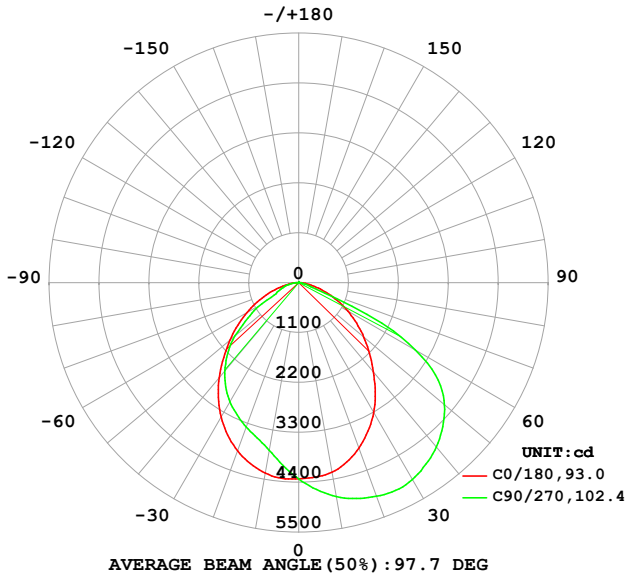
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.35V I:0.6587A P:79.017W PF:0.9967 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12126.6x1 lm		
NAME: ASD-WLP02A-80DAC-PC-BK	TYPE: 80W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.19*0.09	Shielding Angle:

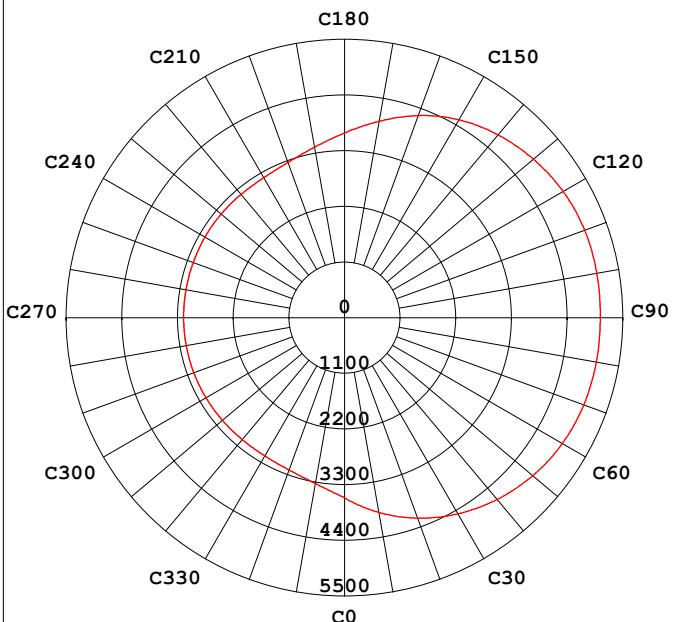
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 153.47 lm/W	
MODEL ASD-WLP02A-80DAC-PC-BK		Imax(cd)	5053	η street_up(%)	0.0
NOMINAL POWER(W)	80	LOR(%)	100.0	η street_down(%)	63.1
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	12127	η house_up(%)	0.0
NOMINAL FLUX(lm)	12127	MAXIMUM @(C,γ)	90,26.0	η house_down(%)	36.9
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.05000
TEST VOLTAGE(V)	120	η down(%)	100.0	SLI	21.176

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



AVERAGE BEAM ANGLE(50%):97.7 DEG

MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM



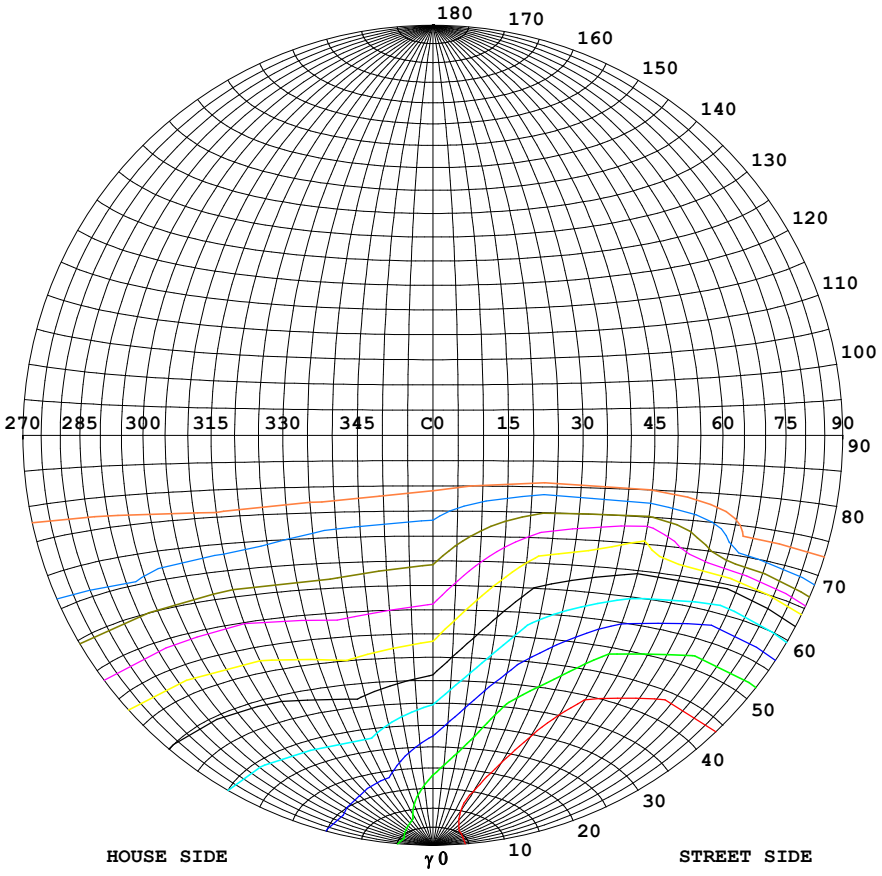
HOUSE SIDE Max @ γ = 26.0DEG STREET SIDE

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-05-22
Stability time:1800 s

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:120.35V I:0.6587A P:79.017W PF:0.9967 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12126.6x1 lm		
NAME: ASD-WLP02A-80DAC-PC-BK	TYPE: 80W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.19*0.09	Shielding Angle:



Classification:

IES:Type III - Very Short
CIE:Narrow - Short
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:36.56cd/klm
Max.At90:0cd/klm
Max.80-90:36.56cd/klm
NBR 5101:Limited[7.1%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	5053
90%	4547
80%	4042
70%	3537
60%	3032
50%	2526
40%	2021
30%	1516
20%	1011
10%	505
5%	253

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
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Operators:DAMIN
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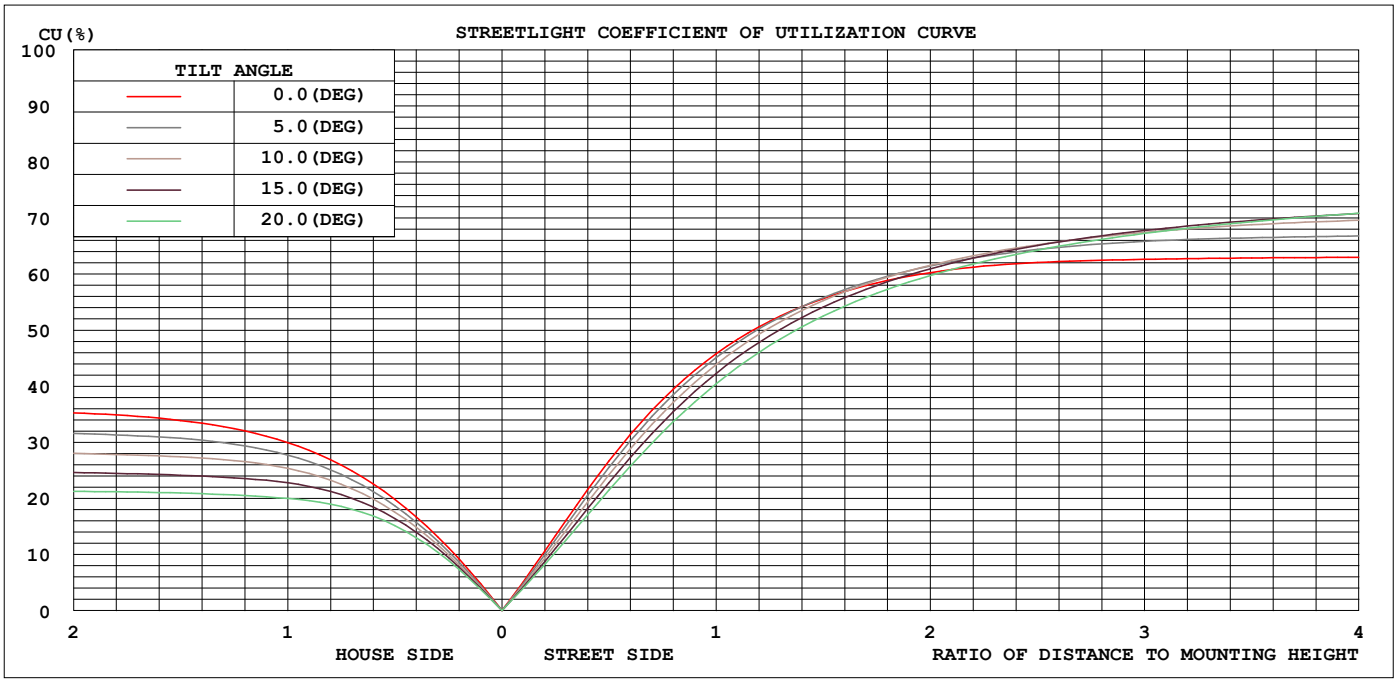
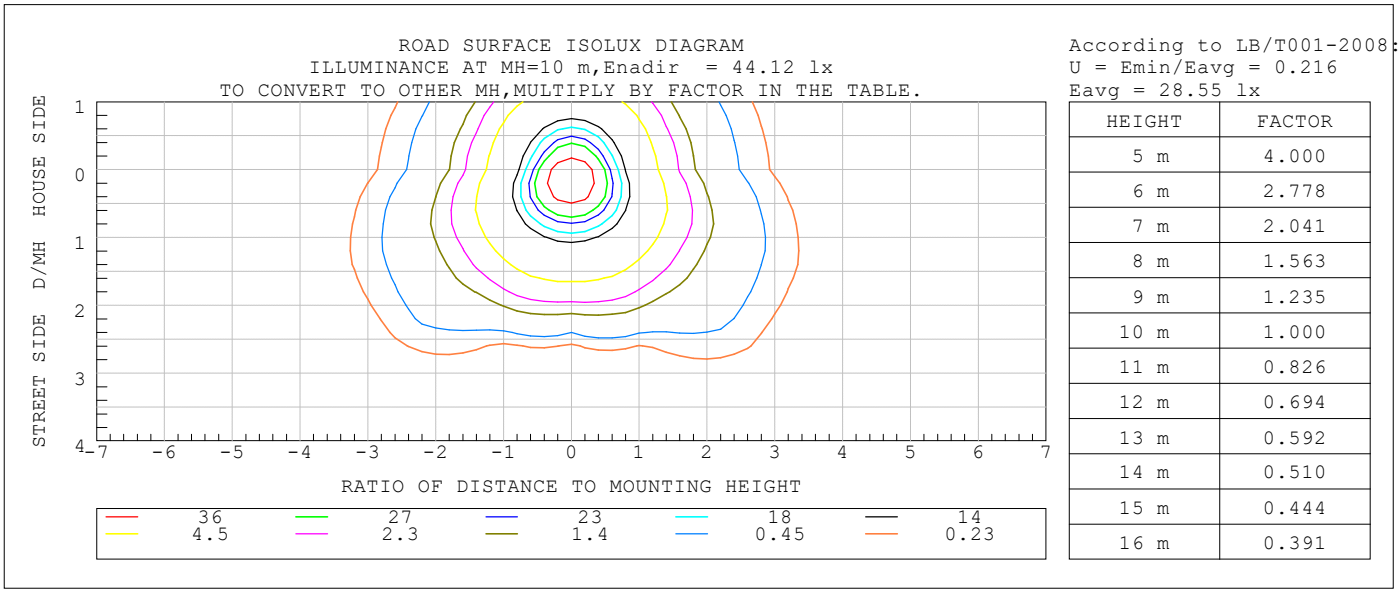
Stability time:1800 s

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM





According to LB/T001-2008:
U = Emin/Eavg = 0.216
Eavg = 28.55 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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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:120.35V I:0.6587A P:79.017W PF:0.9967 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12126.6x1 lm		
NAME: ASD-WLP02A-80DAC-PC-BK	TYPE: 80W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.19*0.09	Shielding Angle:

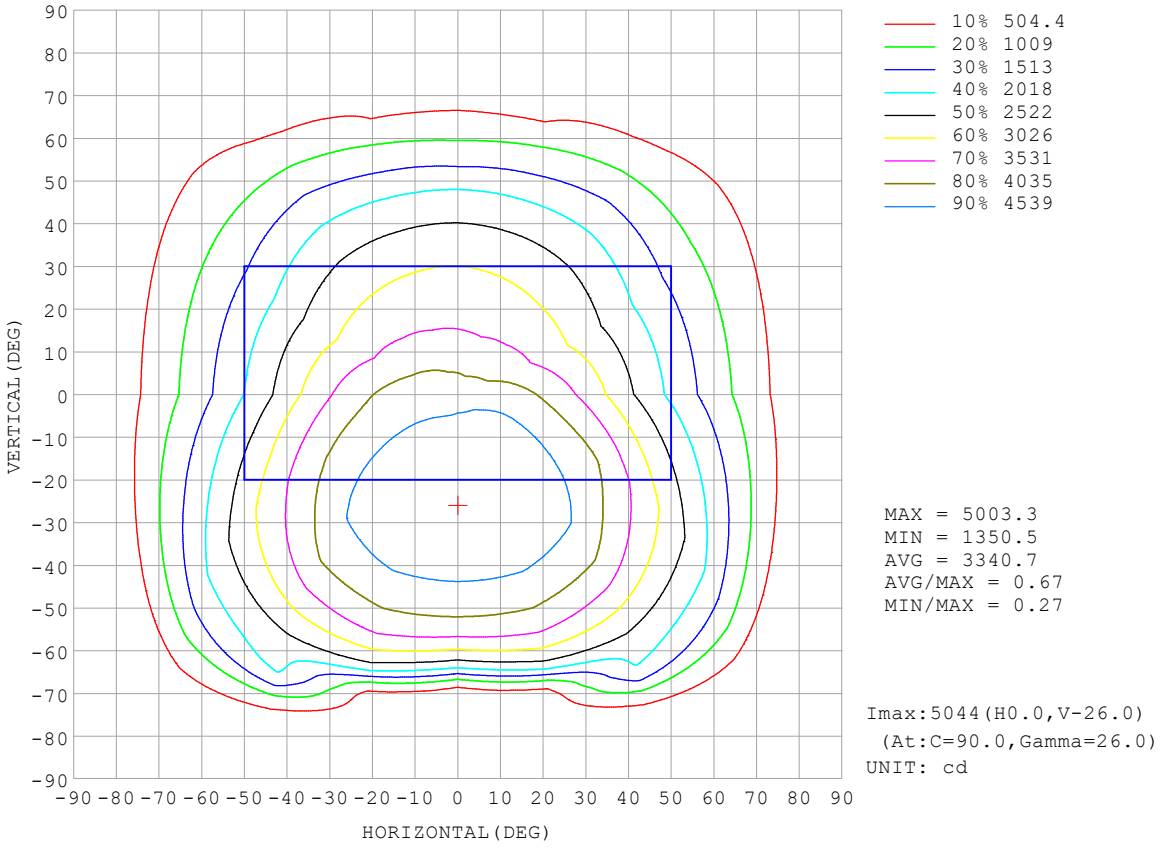
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	4243	4644	4789	4660	4262	3901	3753	3865	0- 10	410.2	410.2	3.38,3.38
20	3884	4787	5012	4799	3946	3432	3385	3408	10- 20	1182	1592	13.1,13.1
30	3310	4741	5014	4775	3424	3024	3035	2978	20- 30	1824	3416	28.2,28.2
40	2565	4481	4723	4531	2728	2541	2535	2487	30- 40	2245	5660	46.7,46.7
50	1876	3918	4197	4003	1982	1941	1842	1869	40- 50	2352	8012	66.1,66.1
60	1249	2969	2968	3070	1317	1222	940.6	1143	50- 60	2102	10115	83.4,83.4
70	659.3	2061	324.7	2176	718.6	429.9	409.1	401.5	60- 70	1386	11501	94.8,94.8
80	213.8	249.4	71.74	316.2	248.6	191.4	195.3	177.3	70- 80	544.6	12046	99.3,99.3
90	0	0	0	0	0	0	0	0	80- 90	80.92	12127	100,100
100	0	0	0	0	0	0	0	0	90-100	0	12127	100,100
110	0	0	0	0	0	0	0	0	100-110	0	12127	100,100
120	0	0	0	0	0	0	0	0	110-120	0	12127	100,100
130	0	0	0	0	0	0	0	0	120-130	0	12127	100,100
140	0	0	0	0	0	0	0	0	130-140	0	12127	100,100
150	0	0	0	0	0	0	0	0	140-150	0	12127	100,100
160	0	0	0	0	0	0	0	0	150-160	0	12127	100,100
170	0	0	0	0	0	0	0	0	160-170	0	12127	100,100
180	0	0	0	0	0	0	0	0	170-180	0	12127	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-05-22
Stability time:1800 s

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

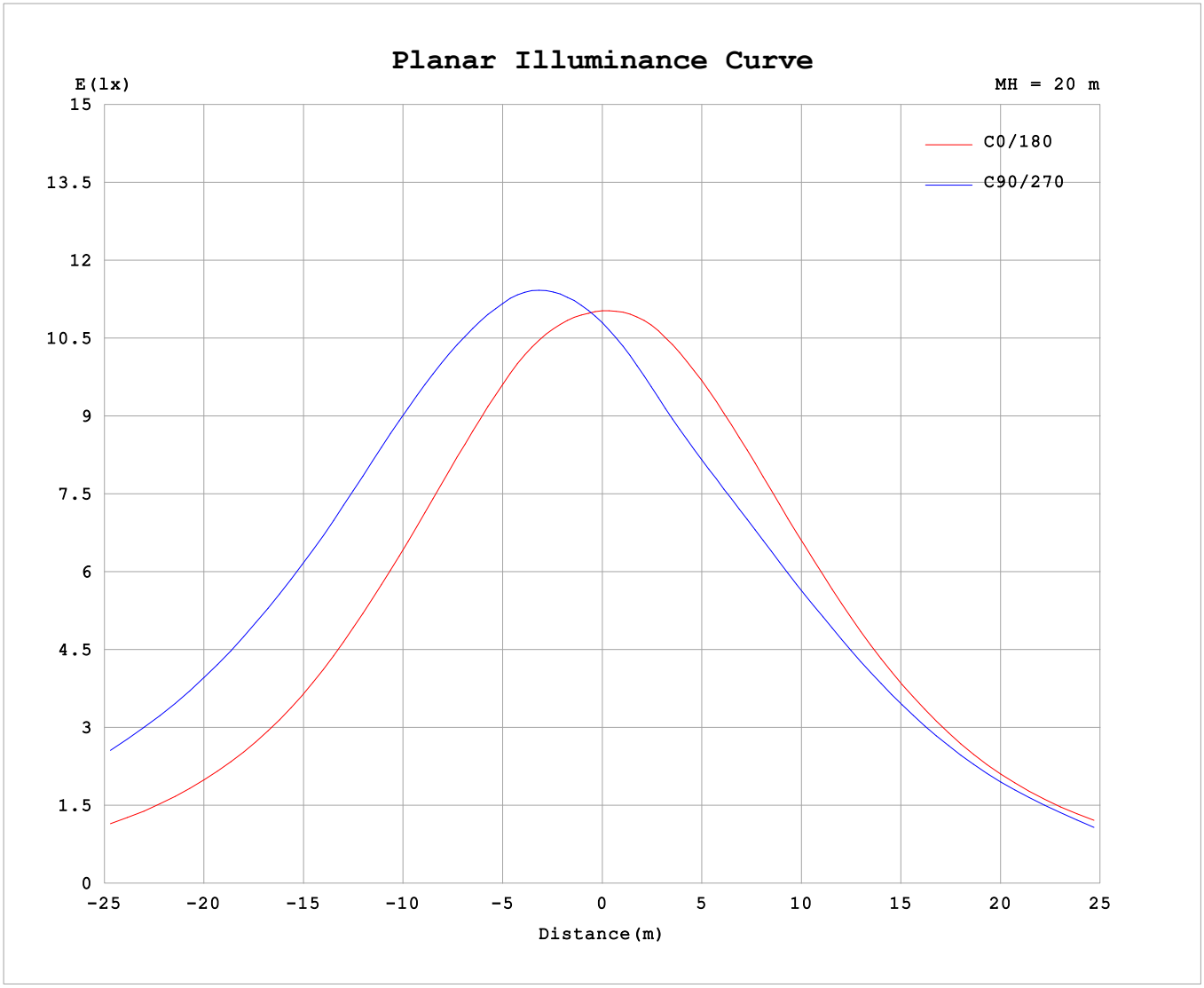
Test:U:120.35V I:0.6587A P:79.017W PF:0.9967 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12126.6x1 lm		
NAME: ASD-WLP02A-80DAC-PC-BK	TYPE: 80W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.19*0.09	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-05-22
Stability time:1800 s

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

Planar Illuminance Curve



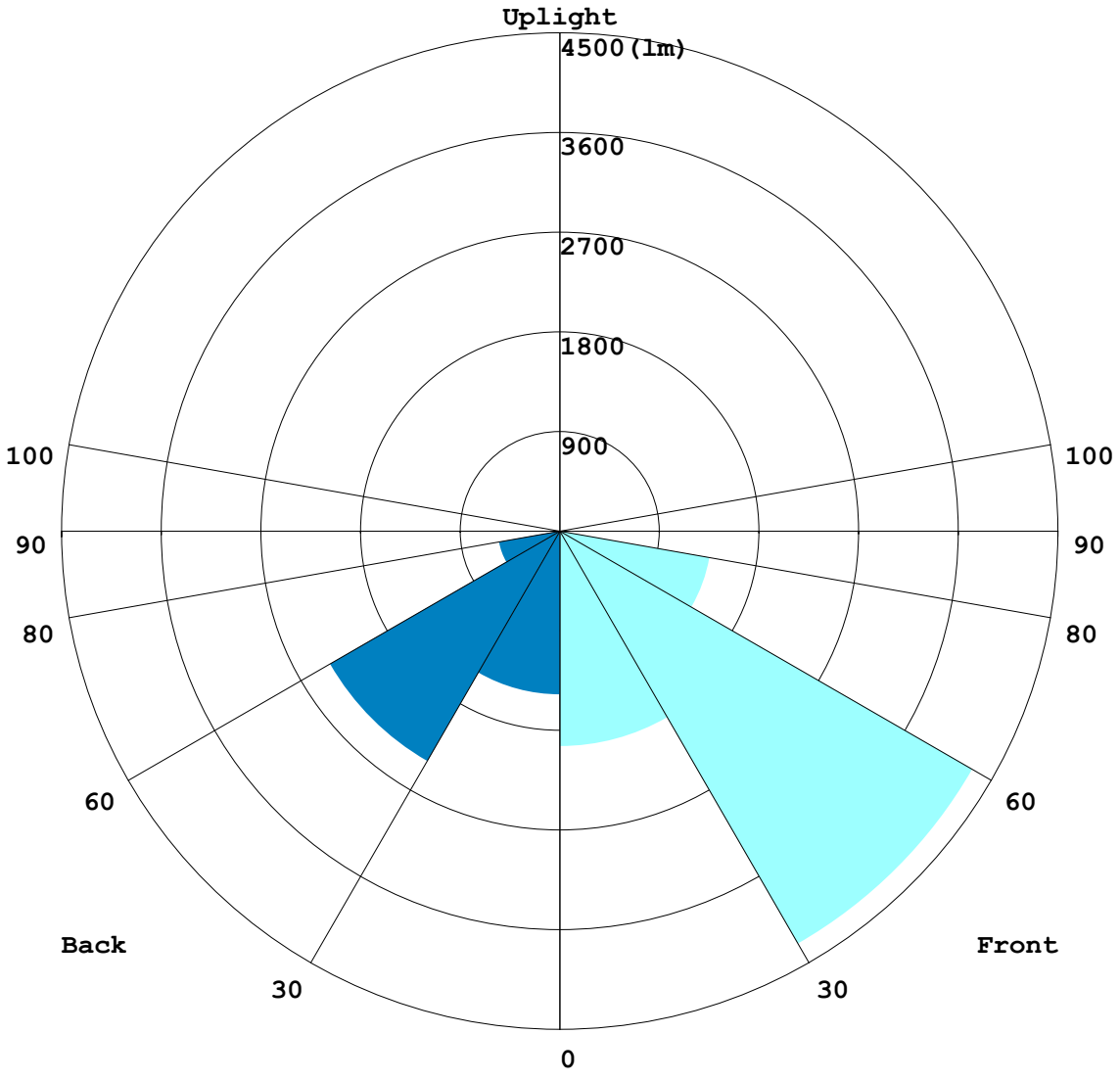
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-05-22
Stability time:1800 s

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

LCS REPORT

Test:U:120.35V I:0.6587A P:79.017W PF:0.9967 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12126.6x1 lm		
NAME: ASD-WLP02A-80DAC-PC-BK	TYPE: 80W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.19*0.09	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:2025-05-22
Stability time:1800 s

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

BUG REPORT

Test:U:120.35V I:0.6587A P:79.017W PF:0.9967 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12126.6x1 lm		
NAME: ASD-WLP02A-80DAC-PC-BK	TYPE: 80W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.19*0.09	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1940.6	16.0
FM - Front-Medium(30-60)	4302.4	35.5
FH - Front-High(60-80)	1372.5	11.3
FVH - Front-Very High(80-90)	35.827	0.3
Total Forward Light	7651.4	63.1
BL - Back-Low(0-30)	1475	12.2
BM - Back-Medium(30-60)	2396.6	19.8
BH - Back-High(60-80)	558.46	4.6
BVH - Back-Very High(80-90)	45.09	0.4
Total Back Light	4475.2	36.9
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	B3-U0-G2

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	4475.2	0	4475.2
Street Side	7651.4	0	7651.4

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C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-05-22
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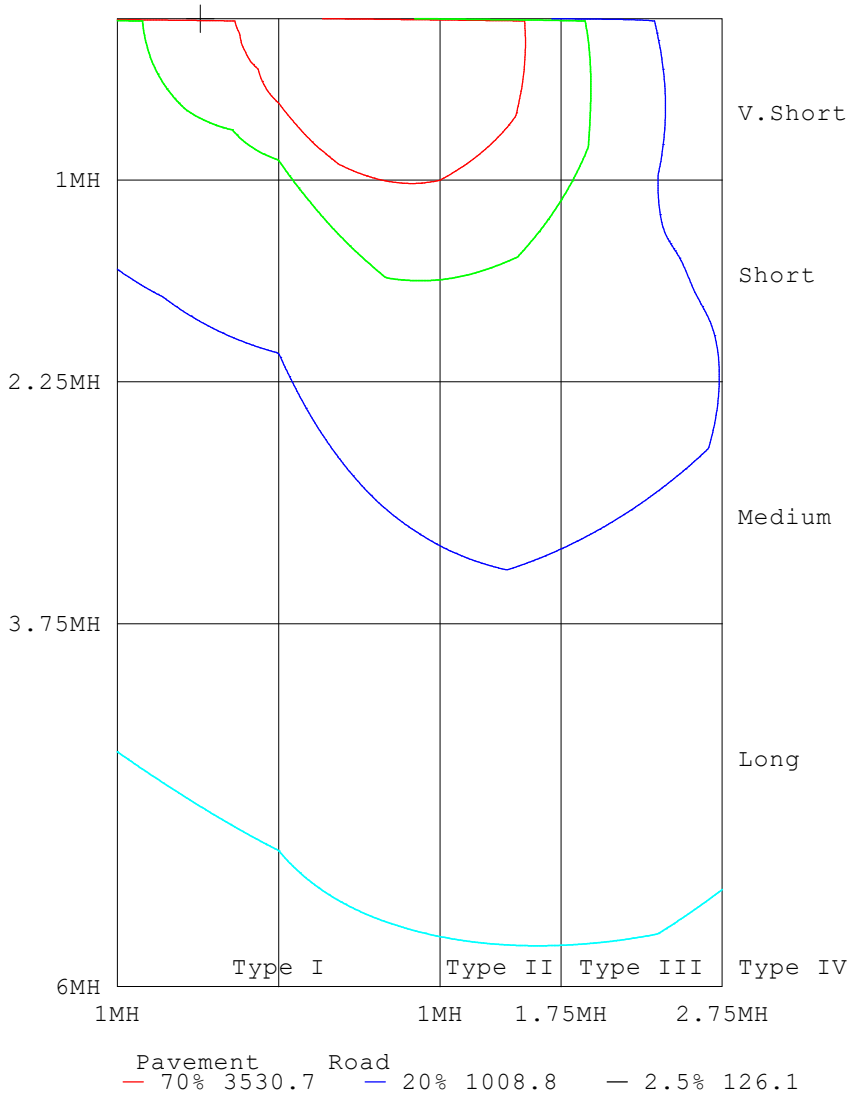
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:120.35V I:0.6587A P:79.017W PF:0.9967 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12126.6x1 lm		
NAME: ASD-WLP02A-80DAC-PC-BK	TYPE: 80W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.19*0.09	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-05-22
Stability time:1800 s

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.35V I:0.6587A P:79.017W PF:0.9967 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12126.6x1 lm		
NAME: ASD-WLP02A-80DAC-PC-BK	TYPE: 80W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.19*0.09	Shielding Angle:

Table--1 UNIT: cd

γ (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	4327	4327	4327	4327	4327	4327	4327	4327	4327	4327	4327	4327	4327	4327	4327	4327
5	4303	4415	4502	4558	4576	4571	4516	4436	4330	4219	4145	4067	4043	4048	4116	4201
10	4243	4471	4644	4750	4789	4773	4660	4479	4262	4046	3901	3785	3753	3767	3865	4027
15	4094	4459	4753	4893	4922	4910	4762	4471	4131	3809	3655	3572	3546	3547	3626	3783
20	3884	4397	4787	4973	5012	4996	4799	4426	3946	3552	3432	3396	3385	3374	3408	3510
25	3618	4303	4782	5021	5052	5042	4805	4342	3705	3294	3229	3224	3218	3207	3191	3239
30	3310	4187	4741	4994	5014	5015	4775	4217	3424	3031	3024	3030	3035	3021	2978	2964
35	2944	4017	4648	4874	4886	4897	4694	4032	3090	2752	2798	2807	2809	2795	2752	2672
40	2565	3761	4481	4702	4723	4737	4531	3798	2728	2468	2541	2534	2535	2518	2487	2367
45	2211	3445	4241	4468	4490	4506	4306	3515	2342	2152	2260	2226	2218	2206	2190	2059
50	1876	3139	3918	4180	4197	4228	4003	3231	1982	1833	1941	1890	1842	1871	1869	1760
55	1558	2830	3483	3820	3758	3867	3586	2936	1643	1517	1591	1435	1377	1398	1516	1447
60	1249	2496	2969	3252	2968	3321	3070	2612	1317	1215	1222	1051	941	1020	1143	1137
65	944	2115	2453	2359	1663	2477	2517	2251	1008	919	818	547	537	527	754	837
70	659	1621	2061	561	325	660	2176	1808	719	646	430	410	409	399	402	577
75	409	977	1038	205	162	224	1295	1169	458	395	293	300	310	292	273	344
80	214	317	249	86.9	71.7	95.6	316	443	249	183	191	190	195	182	177	156
85	70.6	73.9	31.4	9.56	6.43	11.1	48.4	95.1	93.8	75.7	87.6	68.0	70.7	62.5	77.5	63.2
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
C Interval: 22.5DEG
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