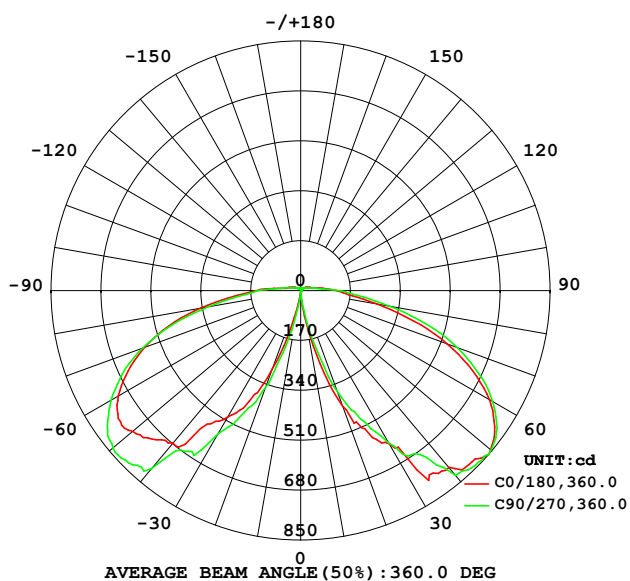
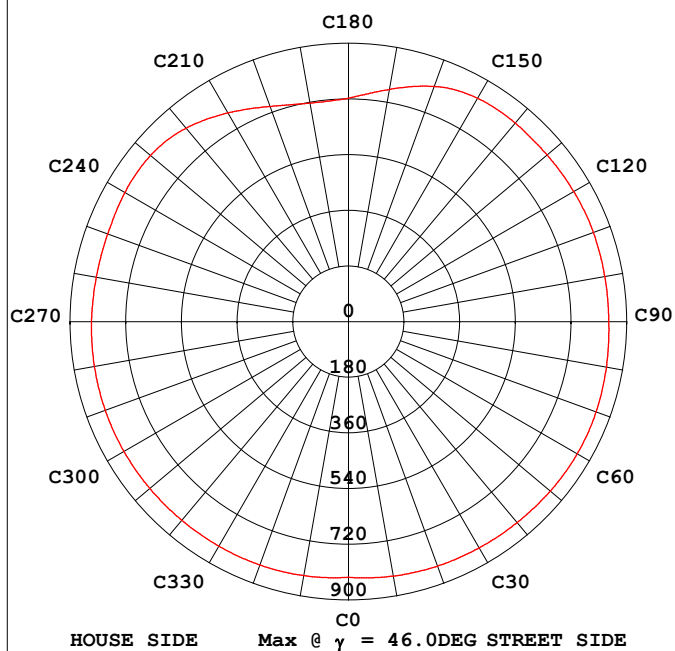


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.38V I:0.1965A P:23.561W PF:0.9960 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3607.27x1 lm		
NameAA: HL-BL-MW-MCCT-24W-CR	Type: 24W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES2
MFR.: HAVELLS	SUR.: 0.15	shielding angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 153.10 lm/W			
MODEL	HL-BL-MW-MCCT-24W-CR	I _{max} (cd)	853.4	η street_up (%)	2.5
NOMINAL POWER (W)	24	LOR (%)	100.0	η street_down (%)	47.9
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	3607	η house_up (%)	2.6
NOMINAL FLUX (lm)	3607.27	MAXIMUM @ (C, γ)	68,46.0	η house_down (%)	47.0
LAMPS INSIDE	1	η up (%)	5.0	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	120	η down (%)	95.0	SLI	

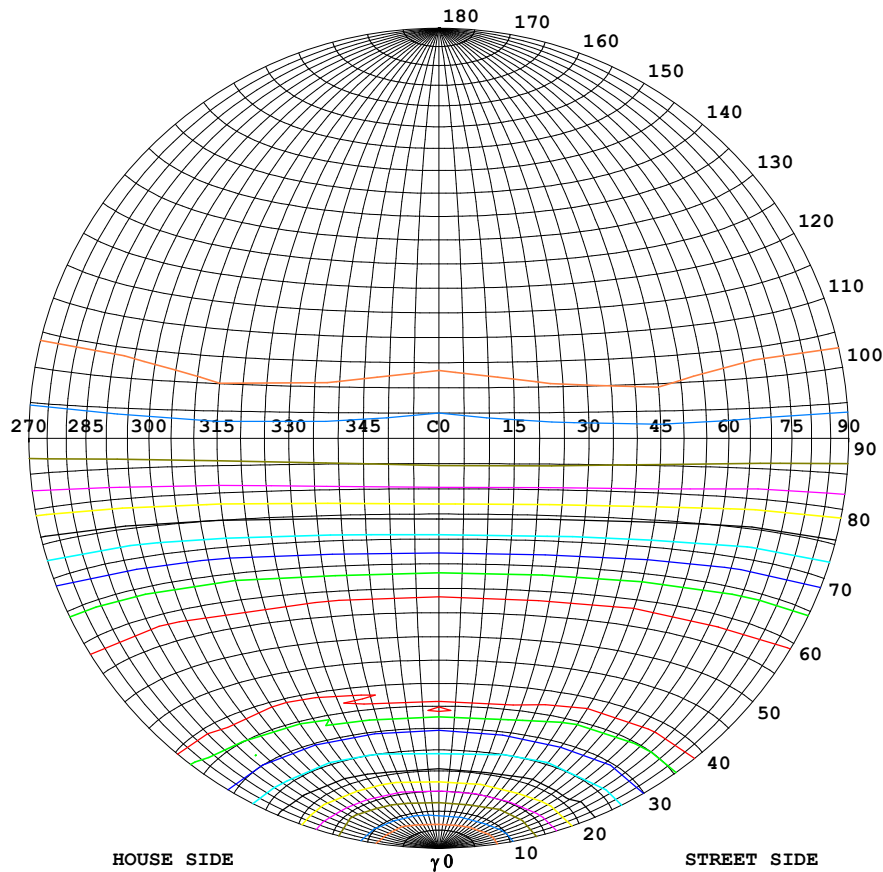
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3℃
Operators: LiXiaoFei
Test Date: 2026-05-04

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 9.550m [K=1.0000]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:120.38V I:0.1965A P:23.561W PF:0.9960 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3607.27x1 lm		
NameAA: BR06B-24L-S2D3C3	Type: 24W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES2
MFR.:	SUR.: 0.15	shielding angle:



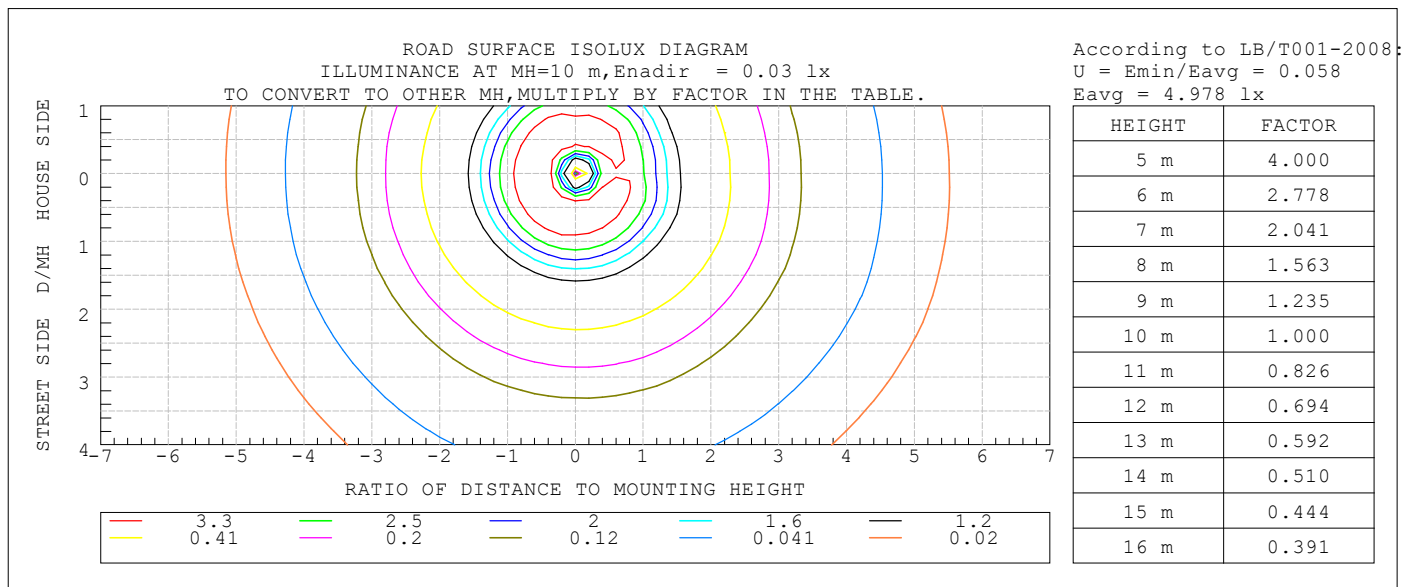
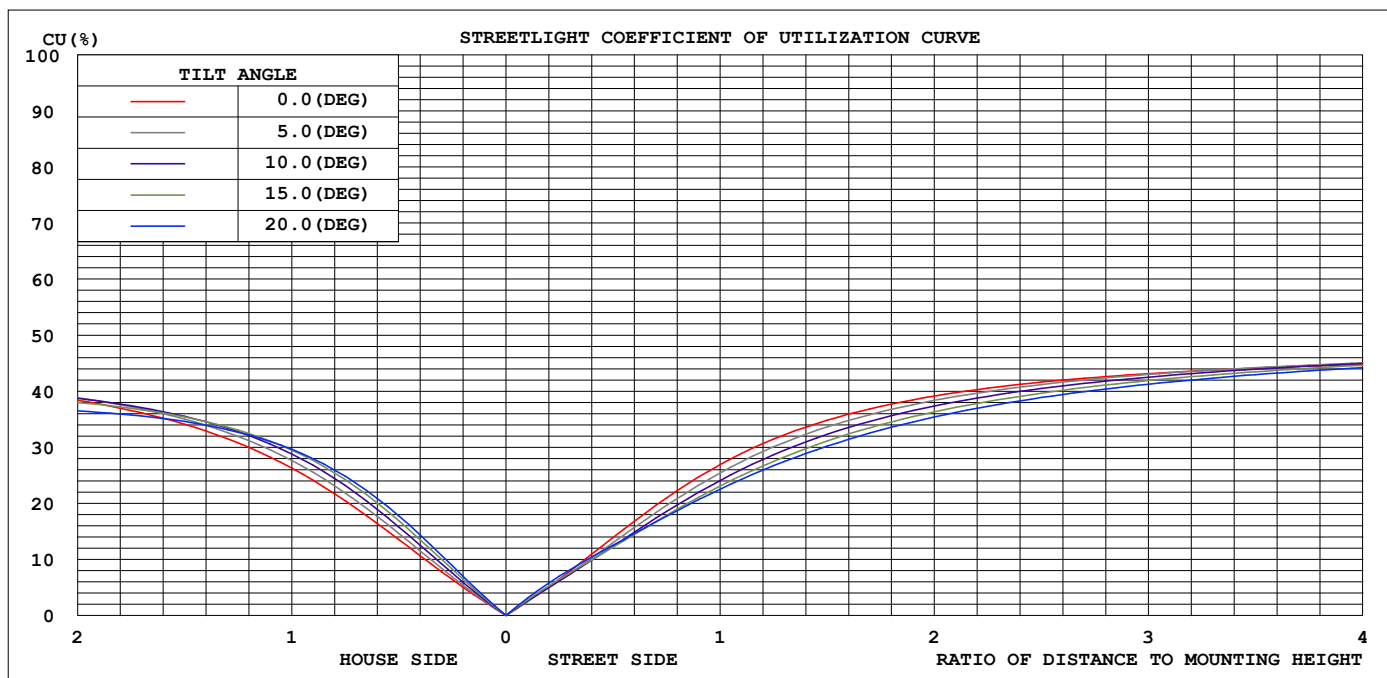
Classification:

IES:Type V - Very Short
CIE:Broad - Short
IES:None cut-off
CIE:Non-cut-off
Max.At80:101.2cd/klm
Max.At90:42.12cd/klm
Max.80-90:101.2cd/klm
NRB 5101:Semi limited[12.4%]

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	853
90%	768
80%	683
70%	597
60%	512
50%	427
40%	341
30%	256
20%	171
10%	85
5%	43

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:LiXiaoFei
Test Date:2026-05-04

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.550m [K=1.0000]
Remarks:

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3℃
Operators: LiXiaoFei
Test Date: 2026-05-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 9.550m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:120.38V I:0.1965A P:23.561W PF:0.9960 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3607.27x1 lm		
NameAA: BR06B-24L-S2D3C3	Type: 24W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES2
MFR.:	SUR.: 0.15	shielding angle:

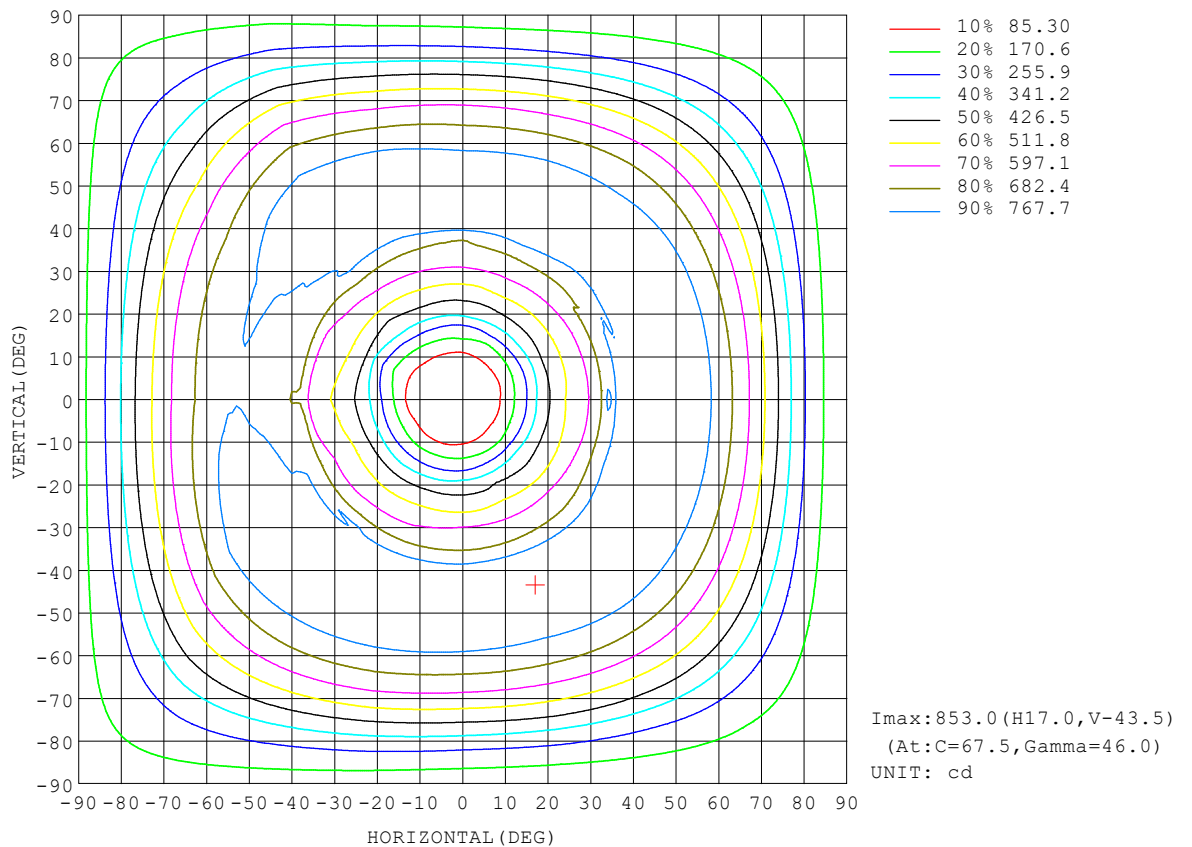
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	113.6	108.1	75.51	58.05	38.68	42.46	65.52	99.68	0- 10	2.622	2.622	0.07,0.07
20	418.7	399.2	366.9	320.0	284.4	310.6	349.3	403.9	10- 20	61.90	64.52	1.79,1.79
30	602.6	620.3	598.8	570.0	497.8	550.3	561.2	606.4	20- 30	222.8	287.3	7.96,7.96
40	786.1	811.6	821.6	769.9	677.6	778.9	791.0	790.2	30- 40	430.7	718.0	19.9,19.9
50	844.4	833.7	846.4	851.3	746.2	839.9	834.2	827.8	40- 50	630.7	1349	37.4,37.4
60	743.4	741.3	754.8	782.5	717.7	784.7	746.0	739.1	50- 60	717.9	2067	57.3,57.3
70	532.3	543.4	566.6	603.3	565.1	620.6	572.8	551.5	60- 70	661.0	2728	75.6,75.6
80	263.0	273.3	308.0	342.8	344.5	364.9	318.8	288.1	70- 80	469.7	3197	88.6,88.6
90	123.9	125.9	135.5	138.4	149.6	152.0	145.3	133.5	80- 90	228.2	3426	95,95
100	53.67	40.80	50.94	40.86	50.04	44.42	56.33	42.78	90-100	89.15	3515	97.4,97.4
110	33.39	23.00	29.53	21.40	34.29	21.37	30.85	23.43	100-110	38.61	3553	98.5,98.5
120	22.94	12.44	19.69	11.27	22.47	11.22	20.39	12.79	110-120	21.49	3575	99.1,99.1
130	15.06	11.17	11.86	11.25	13.48	11.46	12.42	11.22	120-130	12.41	3587	99.4,99.4
140	10.62	10.17	11.60	10.51	11.41	10.62	11.60	10.26	130-140	8.743	3596	99.7,99.7
150	9.717	7.292	10.00	7.549	10.88	6.125	10.03	6.333	140-150	6.346	3602	99.9,99.9
160	5.006	4.361	6.040	4.545	5.835	4.614	4.839	4.462	150-160	3.227	3606	100,100
170	4.817	4.518	4.608	4.798	5.230	4.812	4.631	4.526	160-170	1.288	3607	100,100
180	4.011	3.973	3.954	3.954	4.018	3.986	3.967	3.961	170-180	0.4334	3607	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:LiXiaoFei
Test Date:2026-05-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.550m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

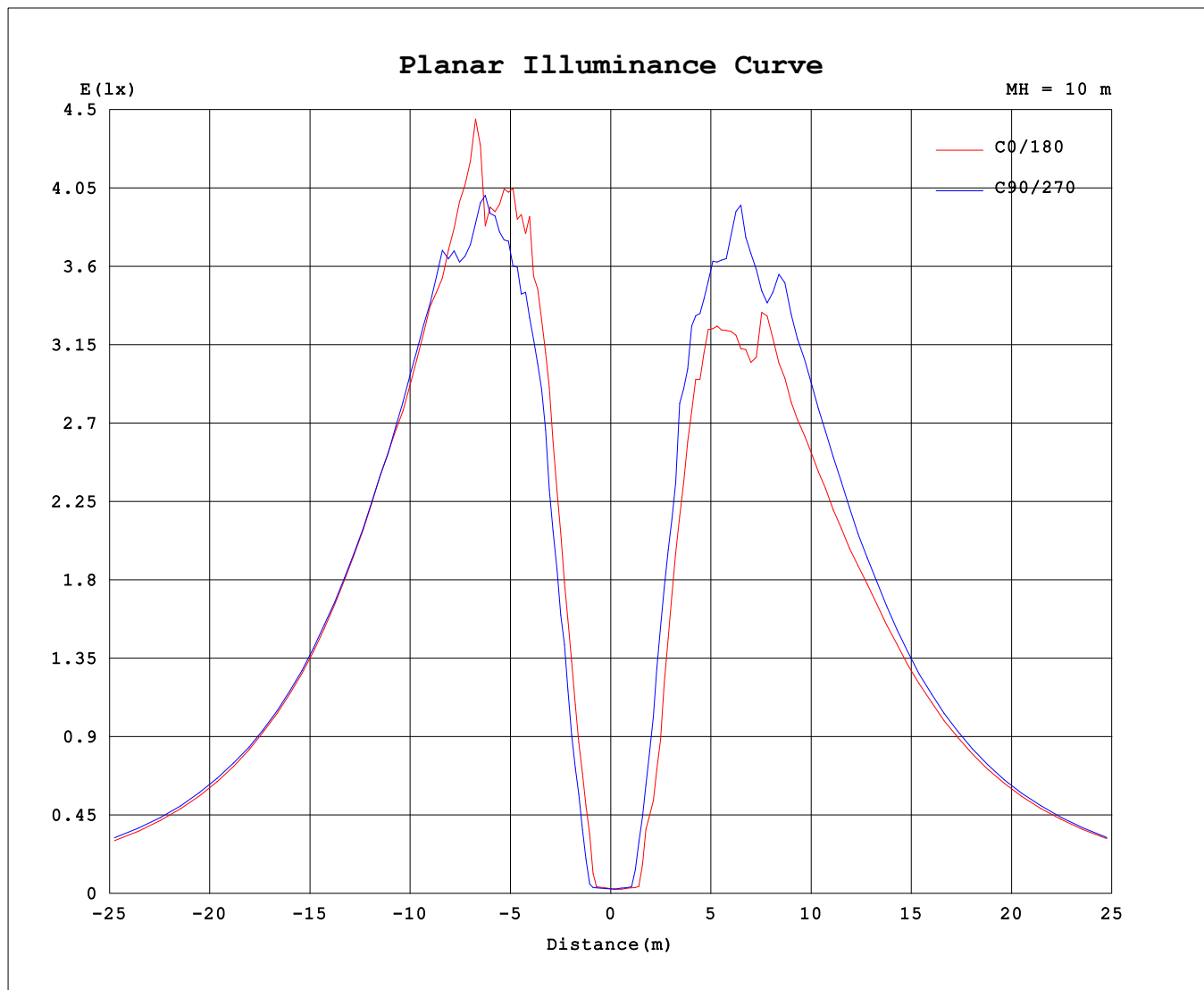
Test:U:120.38V I:0.1965A P:23.561W PF:0.9960 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3607.27x1 lm		
NameAA: BR06B-24L-S2D3C3	Type: 24W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES2
MFR.:	SUR.: 0.15	shielding angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:LiXiaoFei
Test Date:2026-05-04

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.550m [K=1.0000]
Remarks:

Planar Illuminance Curve



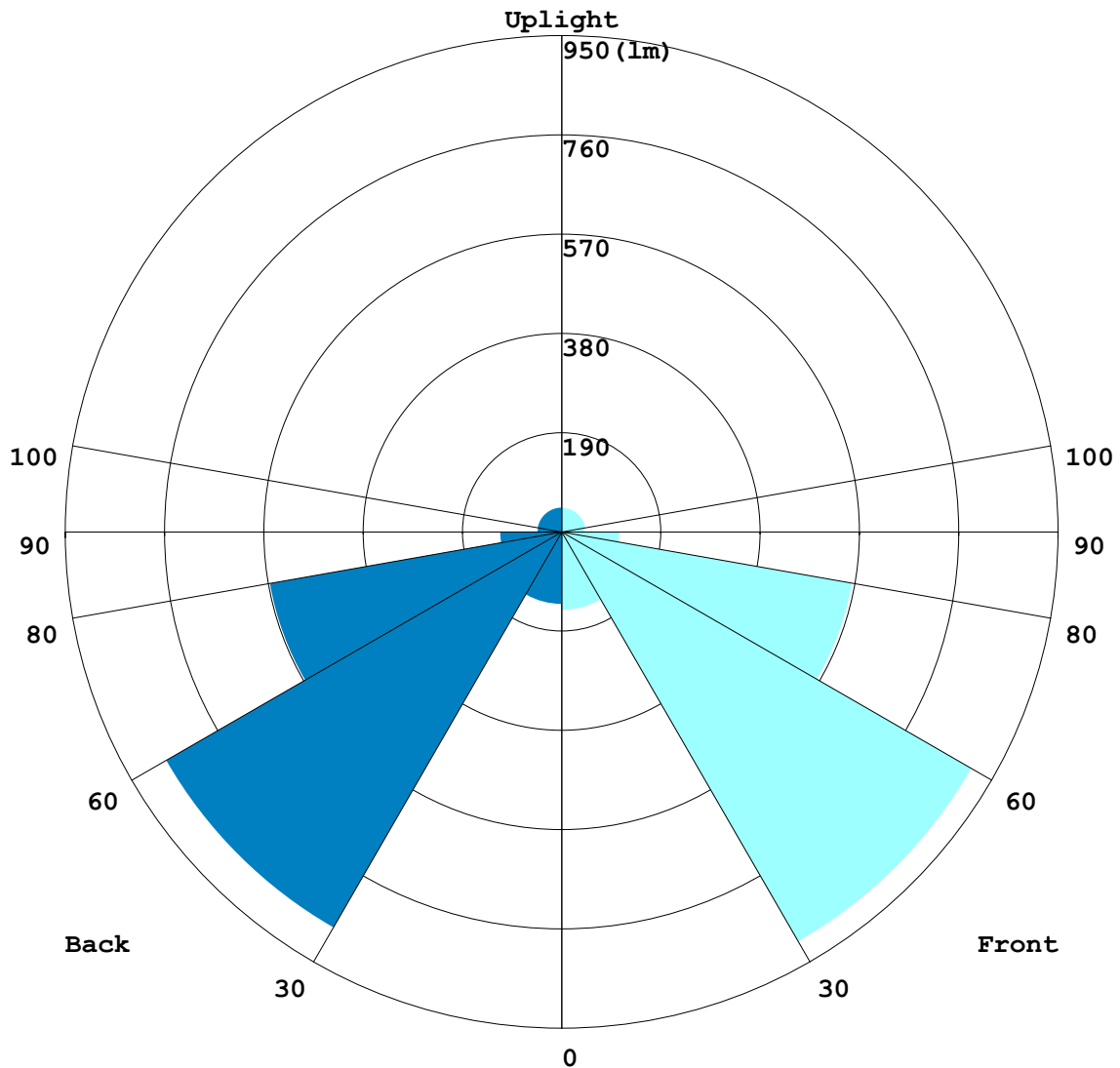
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: LiXiaoFei
Test Date: 2026-05-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 9.550m [K=1.0000]
Remarks:

LCS REPORT

Test:U:120.38V I:0.1965A P:23.561W PF:0.9960 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3607.27x1 lm		
NameAA: BR06B-24L-S2D3C3	Type: 24W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES2
MFR.:	SUR.: 0.15	shielding angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:LiXiaoFei
Test Date:2026-05-04

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.550m [K=1.0000]
Remarks:

BUG REPORT

Test:U:120.38V I:0.1965A P:23.561W PF:0.9960 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3607.27x1 lm		
NameAA: BR06B-24L-S2D3C3	Type: 24W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES2
MFR.:	SUR.: 0.15	shielding angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	149.28	4.1
FM - Front-Medium(30-60)	905.14	25.1
FH - Front-High(60-80)	563.92	15.6
FVH - Front-Very High(80-90)	110.32	3.1
Total Forward Light	1817.6	50.4

BL - Back-Low(0-30)	138	3.8
BM - Back-Medium(30-60)	874.2	24.2
BH - Back-High(60-80)	566.86	15.7
BVH - Back-Very High(80-90)	117.85	3.3
Total Back Light	1789.7	49.6

UL - Uplight-Low(90-100)	89.152	2.5
UH - Uplight-High(100-180)	92.55	2.6
Total Up Light	181.7	5.0

BUG(Back,Up,Glare) Rating	B2-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1696.9	92.807	1789.7
Street Side	1728.7	88.895	1817.6

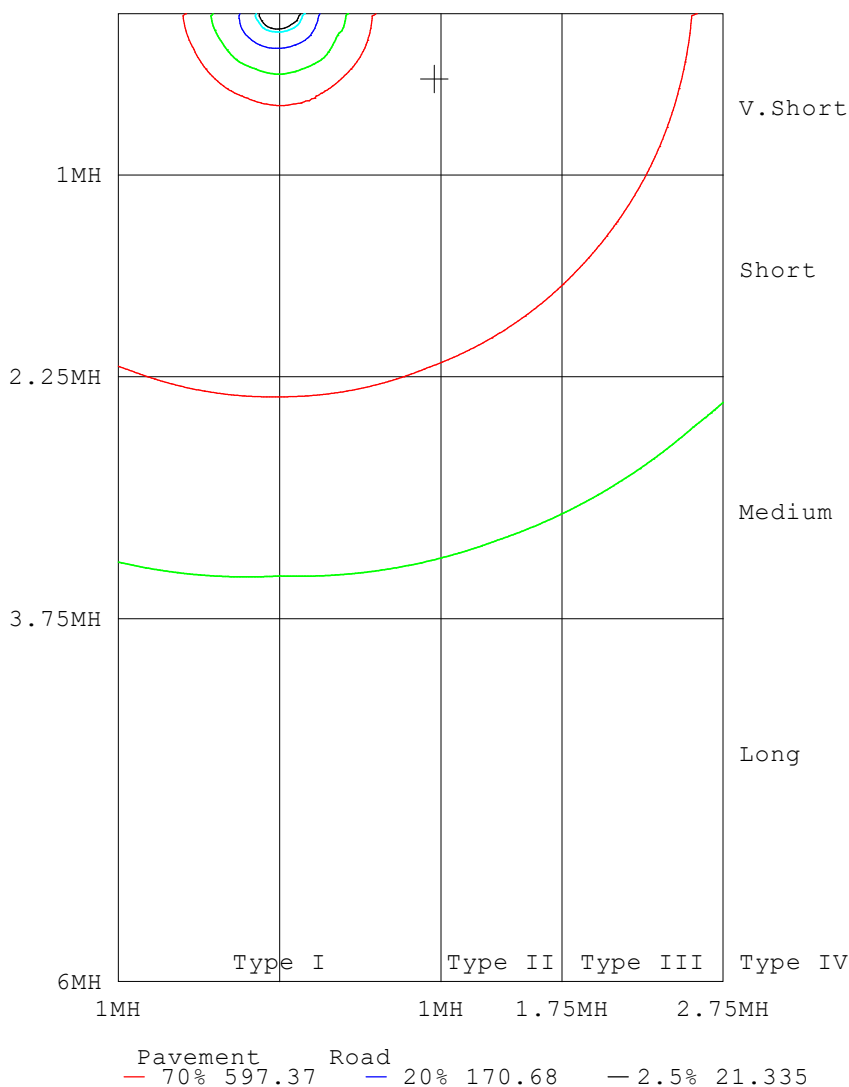
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:LiXiaoFei
Test Date:2026-05-04

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.550m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:120.38V I:0.1965A P:23.561W PF:0.9960 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3607.27x1 lm		
NameAA: BR06B-24L-S2D3C3	Type: 24W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES2
MFR.:	SUR.: 0.15	shielding angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:LiXiaoFei
Test Date:2026-05-04

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.550m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.38V I:0.1965A P:23.561W PF:0.9960 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3607.27x1 lm		
NameAA: BR06B-24L-S2D3C3	Type: 24W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES2
MFR.:	SUR.: 0.15	shielding angle:

Table--1

UNIT: cd

C (DEG) γ (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	2.95	2.89	2.89	2.80	2.75	2.68	2.66	2.73	2.95	2.89	2.89	2.80	2.75	2.68	2.66	2.73			
5	11.8	10.4	6.68	3.98	3.62	3.43	3.29	3.22	3.18	3.11	3.14	3.37	3.59	3.83	4.42	5.87			
10	114	115	108	91.1	75.5	62.8	58.1	44.7	38.7	31.9	42.5	53.7	65.5	83.2	99.7	104			
15	256	252	251	226	206	189	166	156	134	125	144	174	195	210	237	238			
20	419	411	399	378	367	349	320	314	284	245	311	335	349	377	404	409			
25	520	514	501	506	483	476	466	465	417	441	423	465	459	489	505	514			
30	603	599	620	611	599	571	570	564	498	544	550	563	561	599	606	600			
35	765	761	701	685	678	673	671	633	555	593	656	663	669	682	695	755			
40	786	798	812	824	822	772	770	770	678	726	779	765	791	799	790	784			
45	826	838	850	848	842	836	822	805	716	734	821	828	830	840	834	836			
50	844	837	834	841	846	848	851	839	746	775	840	837	834	832	828	825			
55	807	808	809	807	818	827	829	839	759	762	835	815	804	800	789	804			
60	743	737	741	743	755	771	783	794	718	729	785	771	746	745	739	738			
65	647	645	653	661	669	692	705	714	649	655	717	688	671	660	657	645			
70	532	535	543	555	567	592	603	612	565	570	621	585	573	559	551	539			
75	397	403	414	436	444	469	483	497	465	460	505	472	455	440	425	407			
80	263	265	273	296	308	331	343	358	344	336	365	335	319	302	288	272			
85	164	165	174	185	195	210	219	230	229	226	238	216	206	195	183	174			
90	124	125	126	133	136	139	138	145	150	144	152	148	145	139	134	126			
95	85.3	66.6	61.2	72.6	72.9	76.3	62.4	72.0	91.1	71.7	70.7	83.8	81.6	79.3	66.0	68.3			
100	53.7	44.1	40.8	54.5	50.9	56.8	40.9	45.7	50.0	44.9	44.4	61.9	56.3	58.7	42.8	44.7			
105	39.3	33.6	30.4	36.9	37.1	37.8	29.7	33.4	42.6	32.4	30.7	40.1	39.4	38.4	31.0	33.6			
110	33.4	26.0	23.0	29.0	29.5	29.6	21.4	24.9	34.3	24.0	21.4	31.1	30.8	29.7	23.4	25.7			
115	27.7	20.3	17.3	23.2	24.2	23.5	15.1	18.8	27.8	17.9	14.0	24.6	25.1	23.8	17.7	20.3			
120	22.9	16.5	12.4	18.3	19.7	18.5	11.3	14.3	22.5	13.5	11.2	19.4	20.4	18.9	12.8	16.9			
125	18.5	13.6	10.7	14.0	15.6	14.2	11.1	10.9	17.6	10.3	11.1	15.0	15.2	14.4	10.7	13.9			
130	15.1	10.9	11.2	11.3	11.9	11.6	11.3	10.9	13.5	10.3	11.5	11.5	12.4	10.8	11.2	11.0			
135	12.7	10.0	11.6	11.5	10.9	11.9	11.7	10.9	13.0	10.3	12.0	11.4	10.8	11.1	11.6	10.1			
140	10.6	9.64	10.2	11.9	11.6	12.3	10.5	10.5	11.4	10.0	10.6	11.8	11.6	11.9	10.3	9.53			
145	10.7	9.21	8.87	10.9	11.6	11.2	9.29	10.2	11.2	9.53	8.61	11.3	11.8	11.1	8.80	9.03			
150	9.72	8.15	7.29	9.00	10.0	9.16	7.55	9.18	10.9	8.52	6.13	9.38	10.0	9.26	6.33	7.98			
155	7.97	6.71	4.88	7.45	8.15	7.71	5.11	7.33	9.19	7.15	5.61	6.42	7.65	6.46	5.41	6.85			
160	5.01	4.25	4.36	5.04	6.04	5.16	4.54	4.65	5.83	4.81	4.61	5.00	4.84	4.93	4.46	4.34			
165	4.18	4.33	4.30	4.38	4.26	4.58	4.50	4.58	4.55	4.77	4.54	4.65	4.39	4.43	4.36	4.40			
170	4.82	4.72	4.52	4.54	4.61	4.71	4.80	5.05	5.23	5.07	4.81	4.85	4.63	4.69	4.53	4.70			
175	4.44	4.45	4.37	4.26	4.07	4.27	4.44	4.71	4.77	4.65	4.39	4.21	4.11	4.31	4.41	4.53			
180	4.01	4.00	3.97	3.97	3.95	3.97	3.95	3.95	4.02	4.01	3.99	3.97	3.97	3.97	3.96	3.95			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:LiXiaoFei
Test Date:2026-05-04

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.550m [K=1.0000]
Remarks: