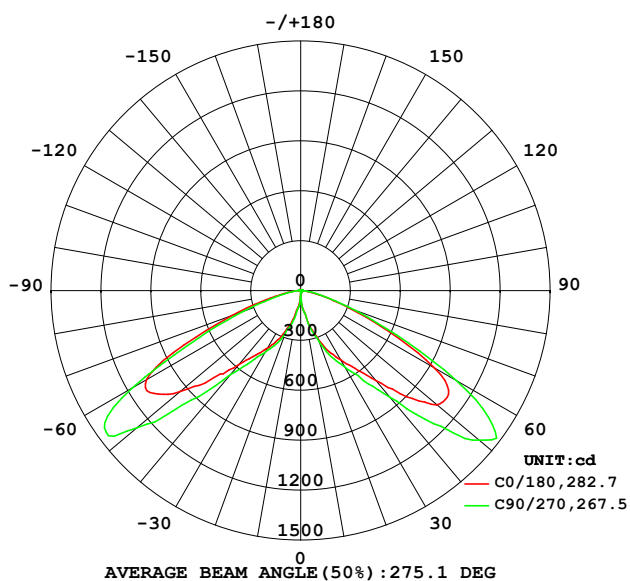
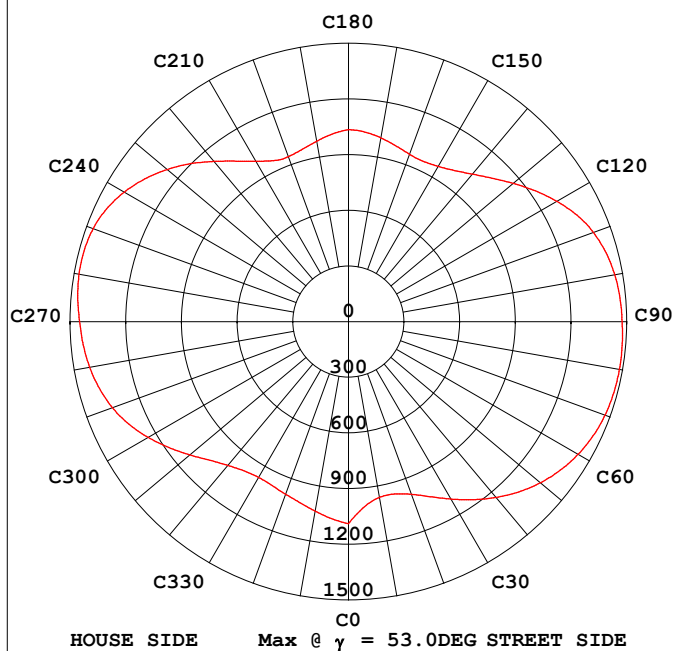


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.37V I:0.1984A P:23.790W PF:0.9961 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3064.71x1 lm		
NameAA: HL-BL-MW-MCCT-24W-DC	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: 128.82 lm/W			
MODEL	HL-BL-MW-MCCT-24W-DC	I _{max} (cd)	1474	η street_up (%)	0.7
NOMINAL POWER (W)	24	LOR (%)	100.0	η street_down (%)	50.6
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	3065	η house_up (%)	0.7
NOMINAL FLUX (lm)	3064.71	MAXIMUM @ (C, γ)	90, 53.0	η house_down (%)	48.1
LAMPS INSIDE	1	η up (%)	1.4	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	120	η down (%)	98.6	SLI	

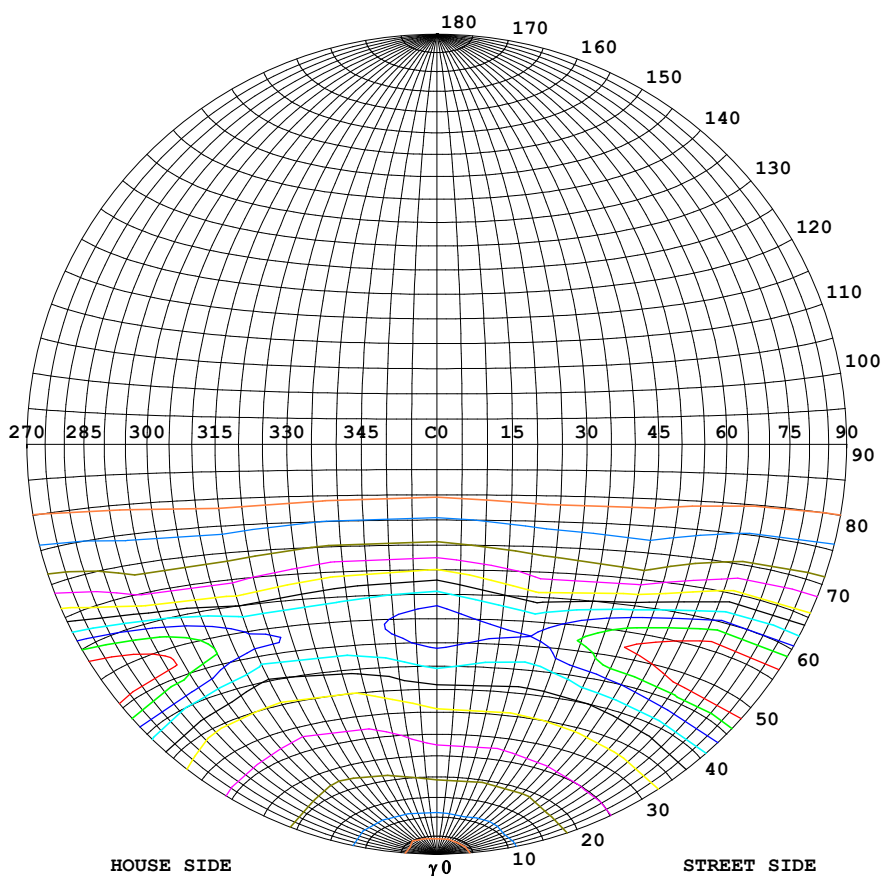
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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

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:120.37V I:0.1984A P:23.790W PF:0.9961 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3064.71x1 lm		
NameAA: BR06E-24L-S2D3C3	Type: 24W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES2
MFR.:	SUR.: 0.15	shielding angle:



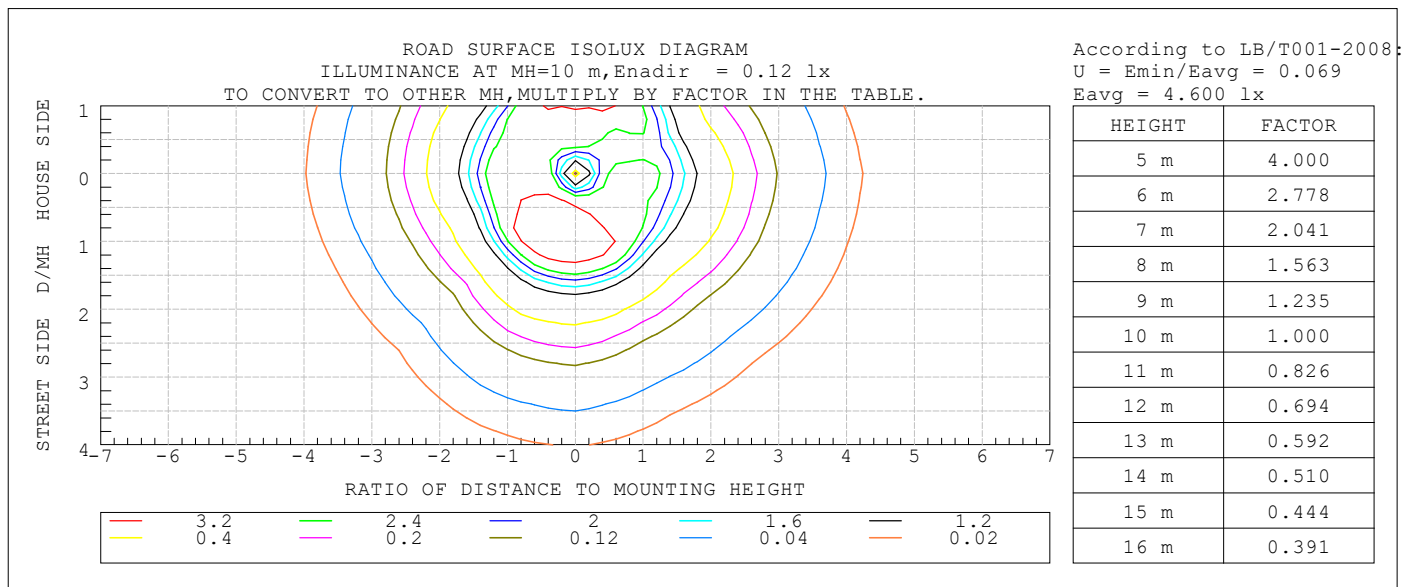
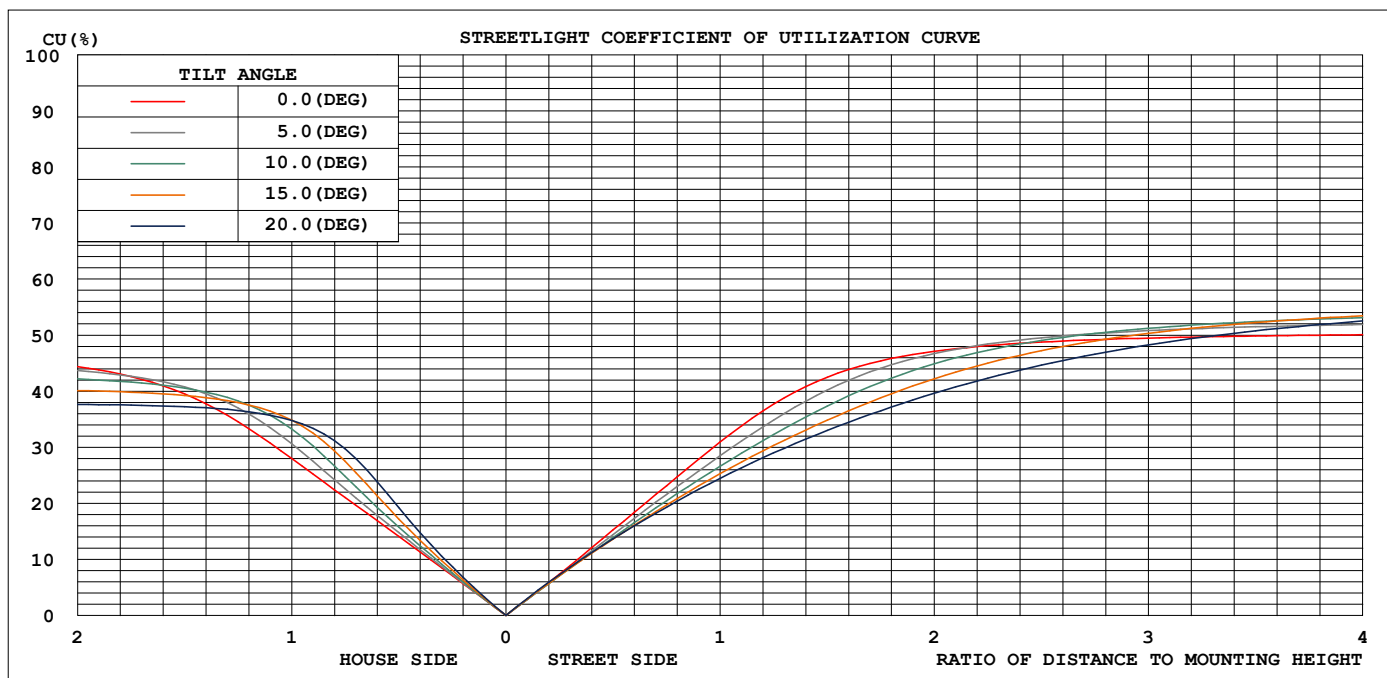
Classification:

IES:Type V - Very Short
CIE:Broad - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:30.58cd/klm
Max.At90:2.293cd/klm
Max.80-90:30.58cd/klm
NRB 5101:Limited[6.1%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1474
90%	1327
80%	1179
70%	1032
60%	885
50%	737
40%	590
30%	442
20%	295
10%	147
5%	74

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

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: 2026-05-05

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:120.37V I:0.1984A P:23.790W PF:0.9961 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3064.71x1 lm		
NameAA: BR06E-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	131.7	128.8	135.7	109.1	111.6	100.1	117.3	116.1	0- 10	8.310	8.310	0.27,0.27
20	313.1	327.9	323.8	259.0	244.4	228.4	277.8	267.1	10- 20	59.01	67.32	2.2,2.2
30	479.4	523.5	529.2	425.8	400.1	345.8	428.9	402.6	20- 30	170.0	237.3	7.74,7.74
40	710.2	740.8	840.5	628.3	586.8	502.1	664.2	577.6	30- 40	336.1	573.4	18.7,18.7
50	1069	1260	1400	969.0	944.8	1048	1281	939.6	40- 50	681.7	1255	41,41
60	924.6	801.7	1079	740.7	1068	1042	1169	730.1	50- 60	1009	2264	73.9,73.9
70	320.9	193.8	347.5	249.6	440.9	226.3	373.7	245.4	60- 70	560.9	2825	92.2,92.2
80	67.20	56.57	74.34	68.26	93.70	62.71	74.79	52.16	70- 80	169.1	2994	97.7,97.7
90	7.028	6.190	4.736	5.744	5.887	5.300	5.096	6.781	80- 90	28.47	3022	98.6,98.6
100	8.134	8.423	8.264	7.144	6.846	7.573	8.304	7.869	90-100	7.282	3030	98.9,98.9
110	9.273	8.311	11.98	5.935	8.245	5.992	11.97	7.681	100-110	9.230	3039	99.2,99.2
120	9.414	5.209	7.643	5.148	6.897	5.281	8.176	5.056	110-120	7.837	3047	99.4,99.4
130	8.313	6.198	5.972	5.812	8.656	6.465	5.674	6.140	120-130	5.986	3053	99.6,99.6
140	5.972	5.726	4.951	5.816	6.670	5.993	5.294	5.422	130-140	5.146	3058	99.8,99.8
150	4.634	4.659	4.996	4.685	4.975	5.211	5.484	4.798	140-150	3.292	3061	99.9,99.9
160	3.759	3.916	4.126	4.026	4.246	4.613	4.772	4.194	150-160	2.159	3063	100,100
170	3.181	3.104	3.174	3.231	3.464	3.560	3.561	3.332	160-170	1.068	3064	100,100
180	3.078	3.053	3.047	3.059	3.085	3.059	3.053	3.040	170-180	0.3043	3065	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:2026-05-05

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

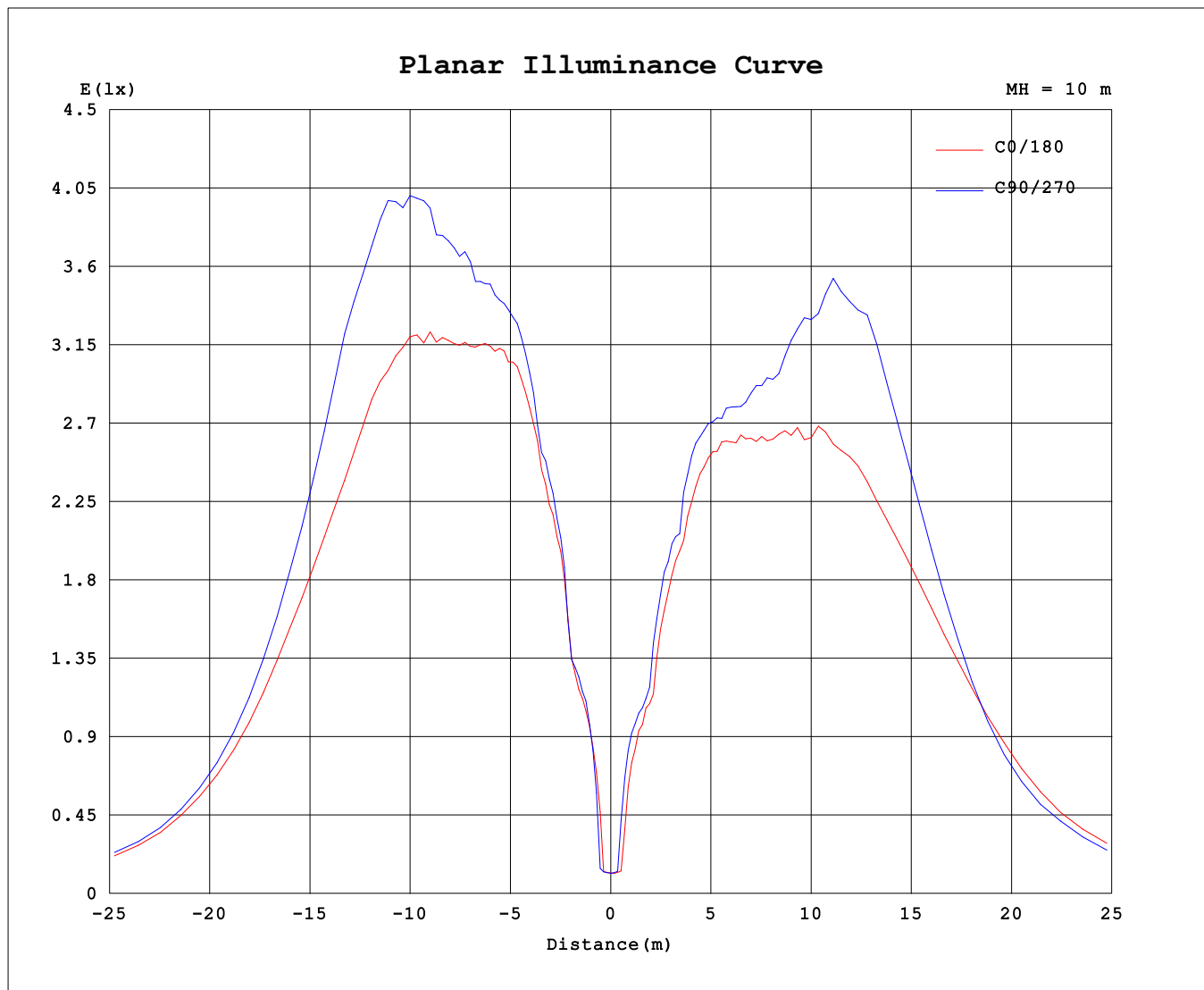
Test:U:120.37V I:0.1984A P:23.790W PF:0.9961 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3064.71x1 lm		
NameAA: BR06E-24L-S2D3C3	Type: 24W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES2
MFR.:	SUR.: 0.15	shielding angle:



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

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



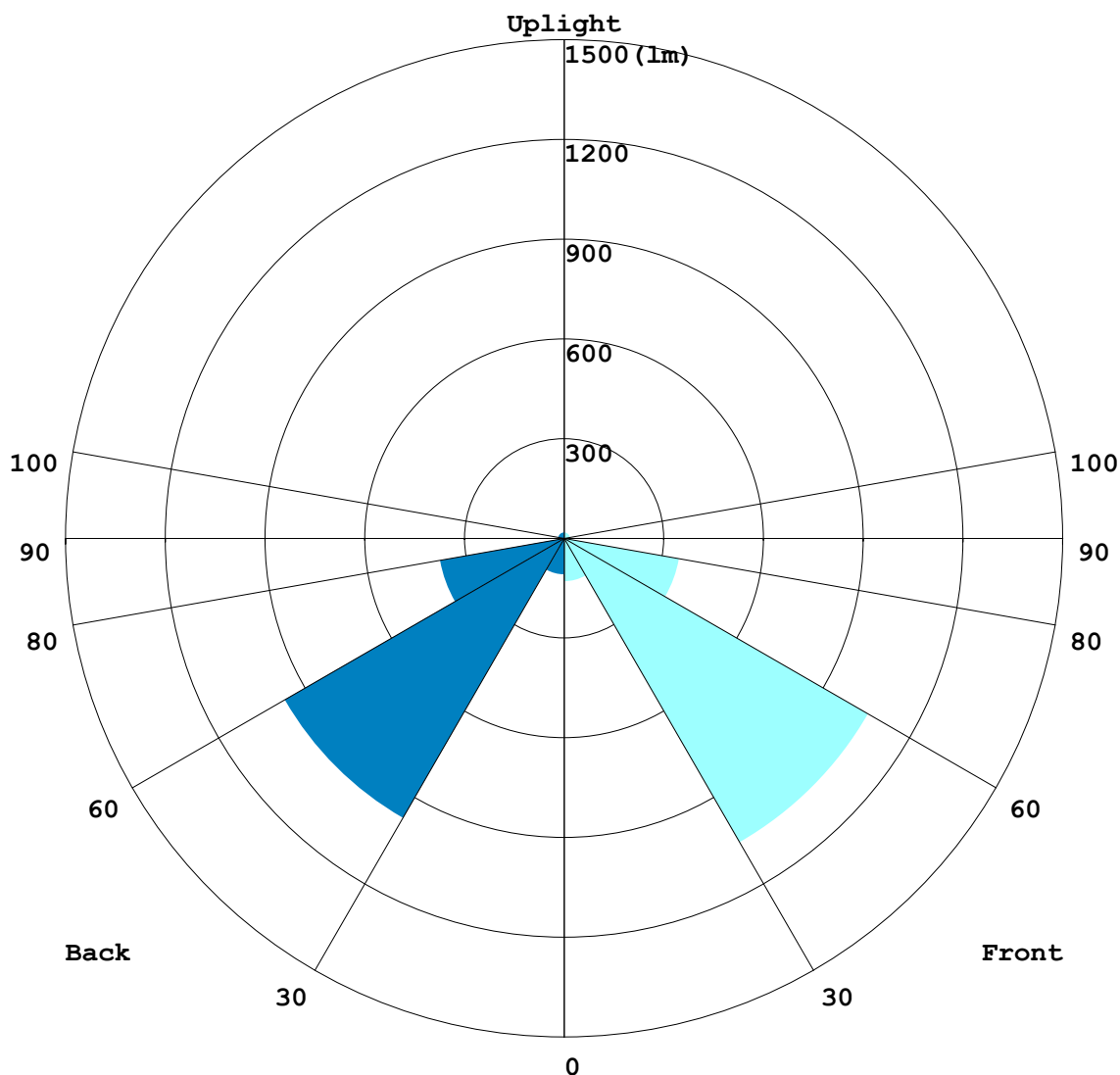
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: LiXiaoFei
Test Date: 2026-05-05

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:120.37V I:0.1984A P:23.790W PF:0.9961 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3064.71x1 lm		
NameAA: BR06E-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:2026-05-05

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:120.37V I:0.1984A P:23.790W PF:0.9961 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3064.71x1 lm		
NameAA: BR06E-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)	129	4.2
FM - Front-Medium(30-60)	1055.9	34.5
FH - Front-High(60-80)	350.56	11.4
FVH - Front-Very High(80-90)	14.113	0.5
Total Forward Light	1570.8	51.3

BL - Back-Low(0-30)	108.3	3.5
BM - Back-Medium(30-60)	970.68	31.7
BH - Back-High(60-80)	379.44	12.4
BVH - Back-Very High(80-90)	14.361	0.5
Total Back Light	1493.9	48.7

UL - Uplight-Low(90-100)	7.2821	0.2
UH - Uplight-High(100-180)	35.02	1.1
Total Up Light	42.302	1.4

BUG(Back,Up,Glare) Rating	B1-U2-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1472.8	21.157	1493.9
Street Side	1549.6	21.145	1570.8

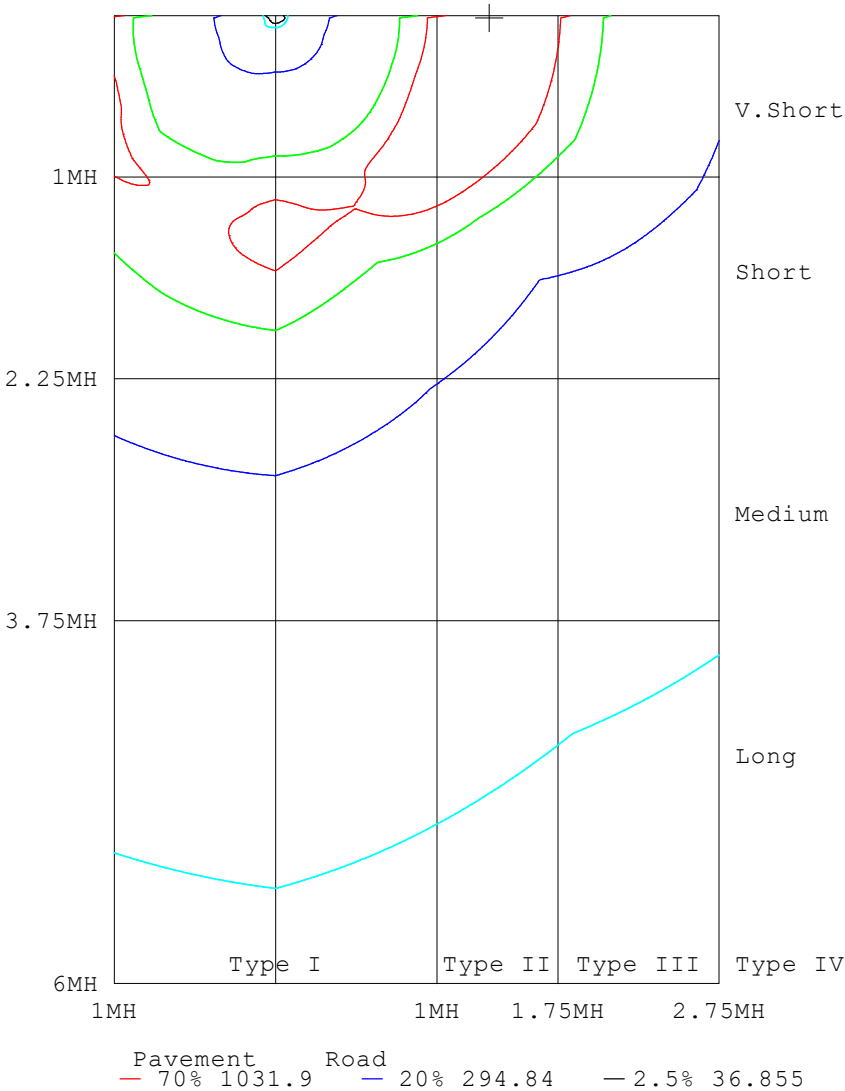
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:LiXiaoFei
Test Date:2026-05-05

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:120.37V I:0.1984A P:23.790W PF:0.9961 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3064.71x1 lm		
NameAA: BR06E-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:2026-05-05

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:120.37V I:0.1984A P:23.790W PF:0.9961 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3064.71x1 lm		
NameAA: BR06E-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	11.9	11.9	11.8	11.8	11.7	11.8	11.8	12.0	11.9	11.9	11.8	11.8	11.7	11.8	11.8	12.0			
5	84.7	84.1	83.1	86.9	82.8	74.1	63.0	62.5	62.1	61.8	73.5	81.1	83.3	81.2	74.6	80.4			
10	132	132	129	134	136	115	109	110	112	104	100	115	117	110	116	124			
15	227	229	240	249	239	215	198	180	181	169	176	192	205	205	197	204			
20	313	313	328	330	324	280	259	243	244	215	228	260	278	282	267	273			
25	406	408	430	445	440	390	350	321	329	296	291	333	357	348	336	342			
30	479	480	523	531	529	480	426	393	400	340	346	405	429	426	403	411			
35	571	574	607	651	660	581	509	466	476	417	409	494	523	501	476	485			
40	710	683	741	822	840	713	628	571	587	489	502	634	664	613	578	591			
45	904	819	999	1146	1133	971	788	722	741	627	711	902	932	871	723	777			
50	1069	962	1260	1407	1400	1291	969	889	945	802	1048	1285	1281	1214	940	934			
55	1085	950	1217	1400	1407	1325	1044	993	1079	948	1242	1462	1440	1302	1022	977			
60	925	649	802	1055	1079	970	741	900	1068	742	1042	1208	1169	920	730	837			
65	594	398	379	629	642	490	431	634	775	431	509	734	679	425	417	532			
70	321	240	194	317	348	250	250	368	441	294	226	384	374	243	245	305			
75	159	124	109	153	168	126	129	180	218	157	118	175	168	131	120	149			
80	67.2	54.0	56.6	71.1	74.3	67.1	68.3	80.9	93.7	67.7	62.7	76.0	74.8	62.5	52.2	60.9			
85	18.8	17.7	20.7	24.6	23.7	23.1	21.3	26.2	31.0	22.2	20.7	22.1	21.7	18.1	16.1	16.9			
90	7.03	6.60	6.19	5.14	4.74	5.18	5.74	5.66	5.89	5.56	5.30	5.14	5.10	6.10	6.78	6.83			
95	7.59	6.94	7.14	6.67	6.38	6.40	6.24	5.89	6.38	5.84	6.15	6.42	6.56	7.14	7.12	7.06			
100	8.13	7.60	8.42	8.47	8.26	7.94	7.14	6.32	6.85	6.31	7.57	8.10	8.30	8.53	7.87	7.54			
105	8.63	8.49	9.79	10.4	10.3	9.61	7.99	6.90	7.42	7.01	8.72	9.97	10.2	10.1	8.84	8.03			
110	9.27	9.36	8.31	11.3	12.0	10.5	5.93	6.83	8.25	7.15	5.99	10.9	12.0	11.0	7.68	8.63			
115	9.87	8.87	5.40	9.66	11.1	9.16	4.59	5.64	7.64	6.03	4.79	9.59	11.3	9.63	5.22	8.13			
120	9.41	8.57	5.21	6.38	7.64	6.19	5.15	6.04	6.90	6.36	5.28	6.62	8.18	6.50	5.06	7.50			
125	8.55	8.64	5.64	5.41	5.85	5.45	5.54	7.28	8.36	7.63	6.08	5.80	6.11	5.51	5.68	7.68			
130	8.31	9.72	6.20	5.64	5.97	5.71	5.81	8.68	8.66	8.82	6.47	6.23	5.67	5.33	6.14	8.85			
135	7.86	8.87	6.46	5.00	5.31	4.97	6.13	8.27	8.46	8.71	6.92	5.28	5.73	5.01	6.31	8.02			
140	5.97	6.67	5.73	4.99	4.95	4.96	5.82	6.55	6.67	7.06	5.99	5.45	5.29	5.02	5.42	5.99			
145	4.88	5.05	4.86	4.93	5.08	4.82	5.04	5.22	5.32	5.60	5.38	5.38	5.47	4.98	4.97	4.98			
150	4.63	4.72	4.66	4.96	5.00	4.80	4.68	4.80	4.98	5.18	5.21	5.45	5.48	5.06	4.80	4.74			
155	4.23	4.29	4.40	4.72	4.70	4.60	4.43	4.45	4.70	4.87	5.04	5.28	5.26	4.95	4.59	4.35			
160	3.76	3.76	3.92	4.09	4.13	4.09	4.03	3.99	4.25	4.41	4.61	4.76	4.77	4.53	4.19	3.90			
165	3.40	3.35	3.43	3.49	3.56	3.53	3.56	3.59	3.81	3.94	4.06	4.11	4.11	3.92	3.73	3.53			
170	3.18	3.07	3.10	3.12	3.17	3.15	3.23	3.26	3.46	3.52	3.56	3.59	3.56	3.47	3.33	3.24			
175	3.08	3.03	3.02	3.03	3.03	3.04	3.08	3.11	3.22	3.28	3.24	3.26	3.21	3.19	3.12	3.12			
180	3.08	3.07	3.05	3.07	3.05	3.05	3.06	3.03	3.08	3.08	3.06	3.08	3.05	3.07	3.04	3.06			

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

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: