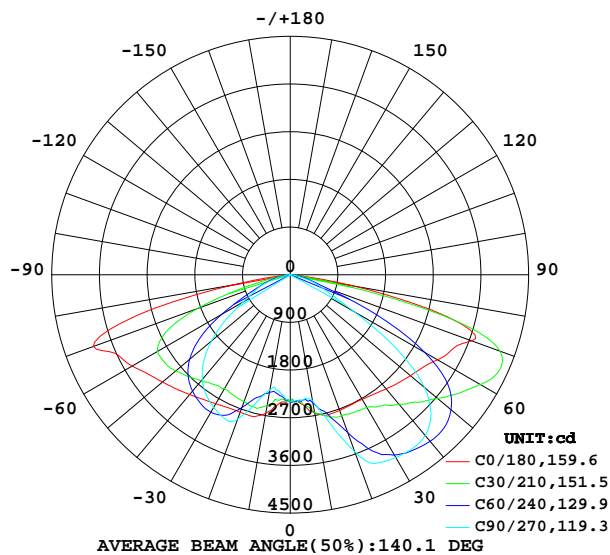
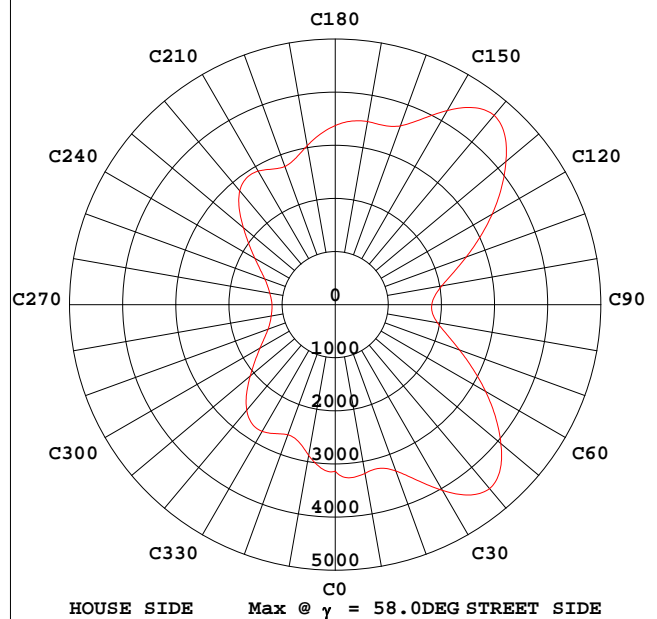


STREETLIGHT PHOTOMETRIC TEST REPORT

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 110.00 lm/W			
MODEL	LD120LMA 3M 3030	Imax(cd)	4654	η street_up(%)	0.2
NOMINAL POWER(W)	120	LOR(%)	100.0	η street_down(%)	58.1
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	13200	η house_up(%)	0.2
NOMINAL FLUX(lm)	13200	MAXIMUM @ (C, γ)	140,58.0	η house_down(%)	41.5
LAMPS INSIDE	1	η up(%)	0.4	76 FLASHAREA(m2)	0.05000
TEST VOLTAGE(V)	220.1	η down(%)	99.6	SLI	24.023

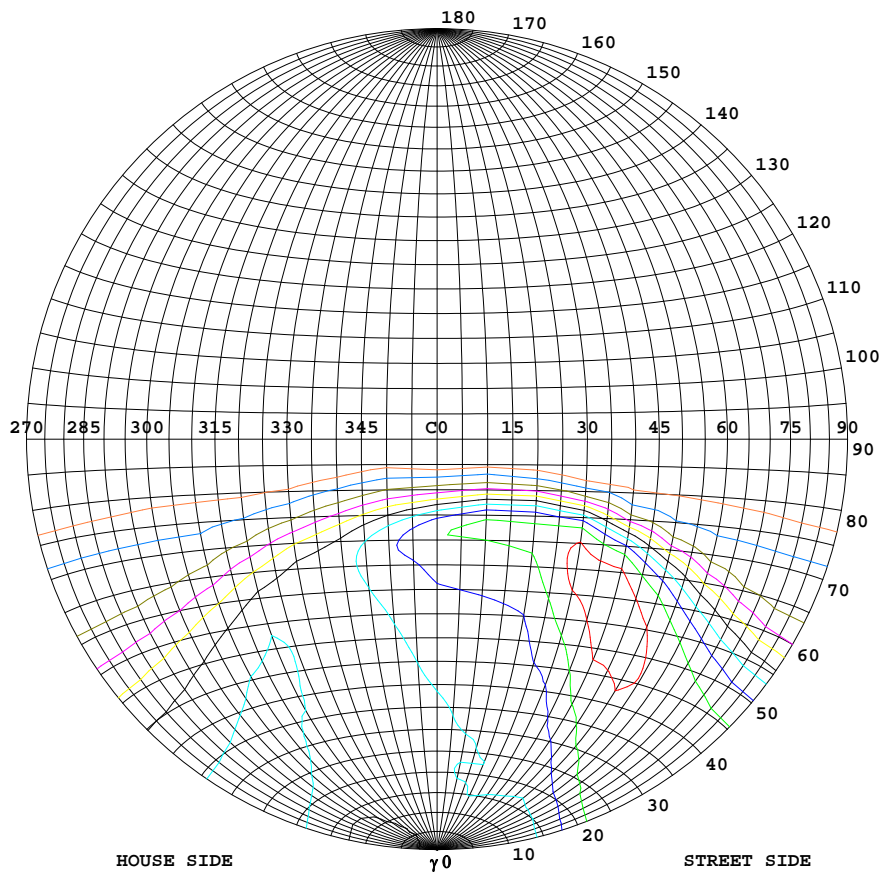
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2017.10.31

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.480m [K=1.0000]
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:



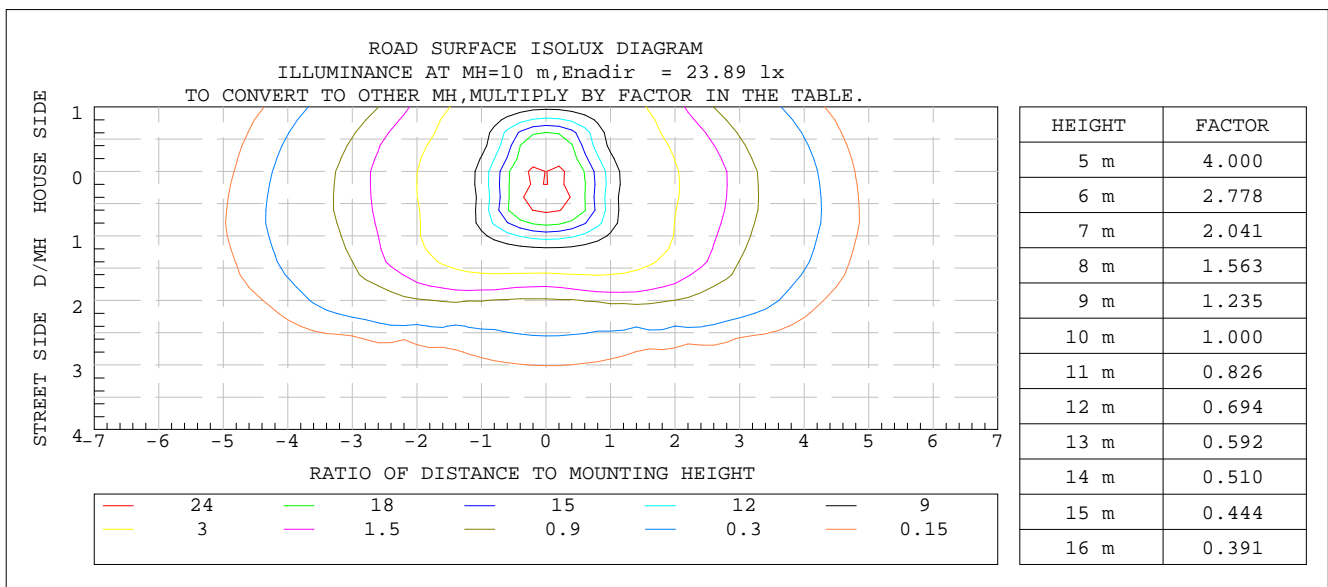
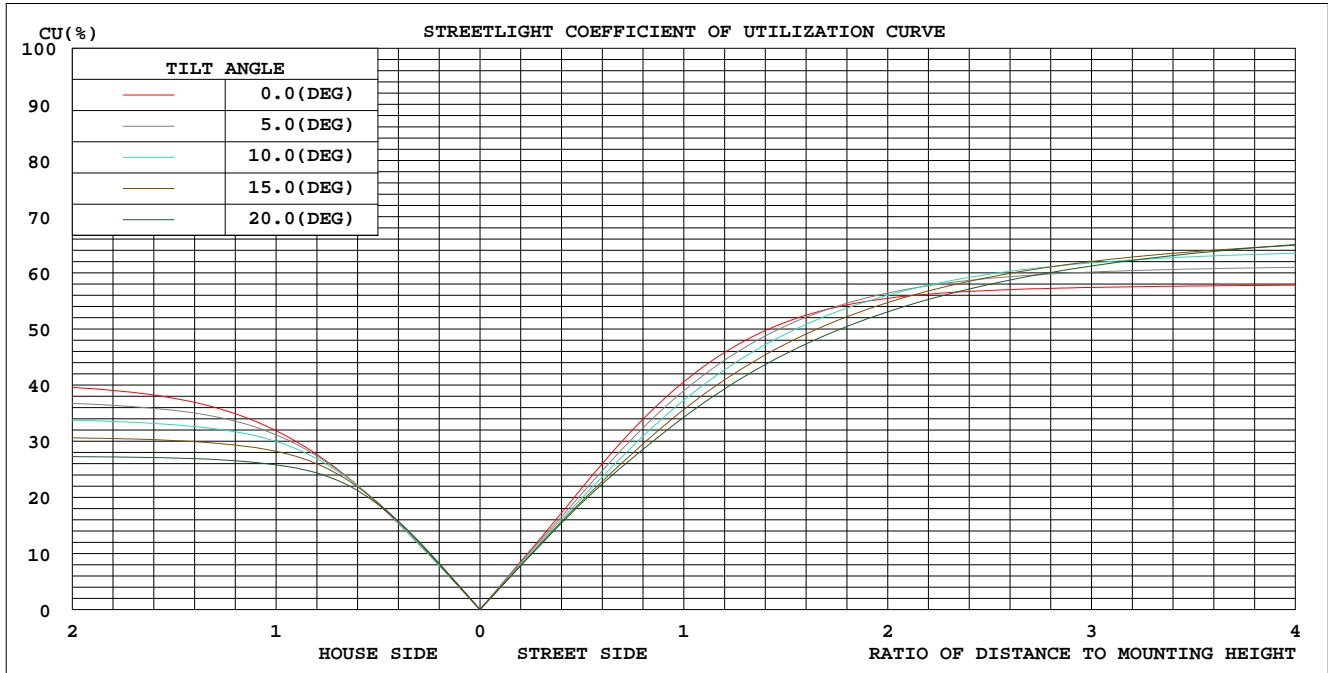
Classification:

IES:Type III - Short
 CIE:Broad - Short
 IES:Semi cut-off
 CIE:Non-cut-off
 Max.At80:113.8cd/klm
 Max.At90:9.946cd/klm
 Max.80-90:113.8cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4654
90%	4189
80%	3723
70%	3258
60%	2792
50%	2327
40%	1862
30%	1396
20%	931
10%	465
5%	233

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2017.10.31

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.480m [K=1.0000]
 Remarks:

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017.10.31

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.480m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:

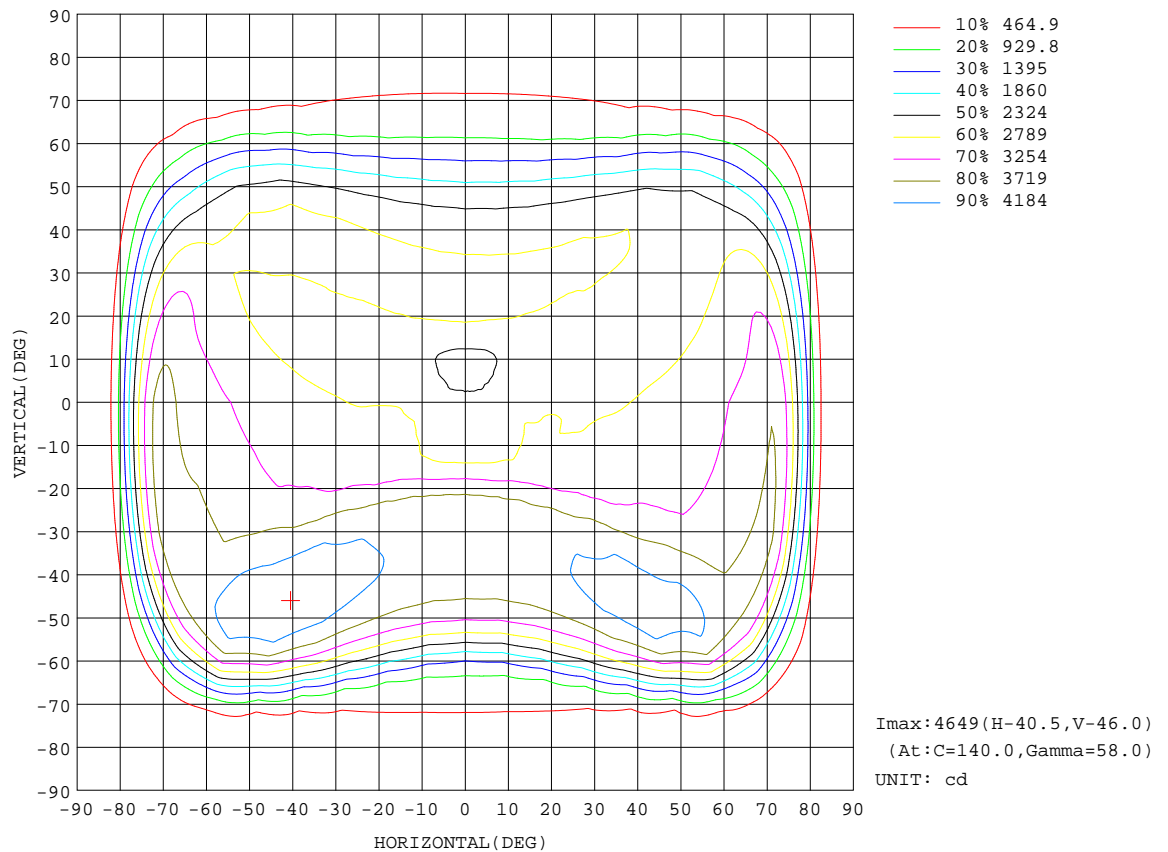
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	2649	2527	2411	2557	2654	2374	2208	2354	0- 10	229.0	229.0	1.73,1.73
20	2726	2901	3550	2970	2761	2509	2902	2473	10- 20	761.1	990.0	7.5,7.5
30	2716	3455	3983	3583	2812	2781	2891	2733	20- 30	1398	2388	18.1,18.1
40	2812	3973	3962	4099	2952	2964	2583	2860	30- 40	1986	4373	33.1,33.1
50	2963	4296	3311	4415	3151	2910	1938	2742	40- 50	2456	6829	51.7,51.7
60	3211	4218	1394	4336	3447	2335	1025	2156	50- 60	2612	9441	71.5,71.5
70	3649	2471	550.5	2587	3954	909.8	548.6	865.6	60- 70	2271	11712	88.7,88.7
80	1192	239.8	128.7	252.1	1064	196.6	127.8	191.9	70- 80	1284	12997	98.5,98.5
90	9.167	43.52	7.386	41.71	10.45	38.53	8.029	39.30	80- 90	150.0	13147	99.6,99.6
100	13.61	36.43	11.73	33.98	14.66	36.95	14.50	38.57	90-100	50.83	13198	100,100
110	0	0	0	0	0	0	0	0	100-110	2.208	13200	100,100
120	0	0	0	0	0	0	0	0	110-120	0	13200	100,100
130	0	0	0	0	0	0	0	0	120-130	0	13200	100,100
140	0	0	0	0	0	0	0	0	130-140	0	13200	100,100
150	0	0	0	0	0	0	0	0	140-150	0	13200	100,100
160	0	0	0	0	0	0	0	0	150-160	0	13200	100,100
170	0	0	0	0	0	0	0	0	160-170	0	13200	100,100
180	0	0	0	0	0	0	0	0	170-180	0	13200	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.10.31

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

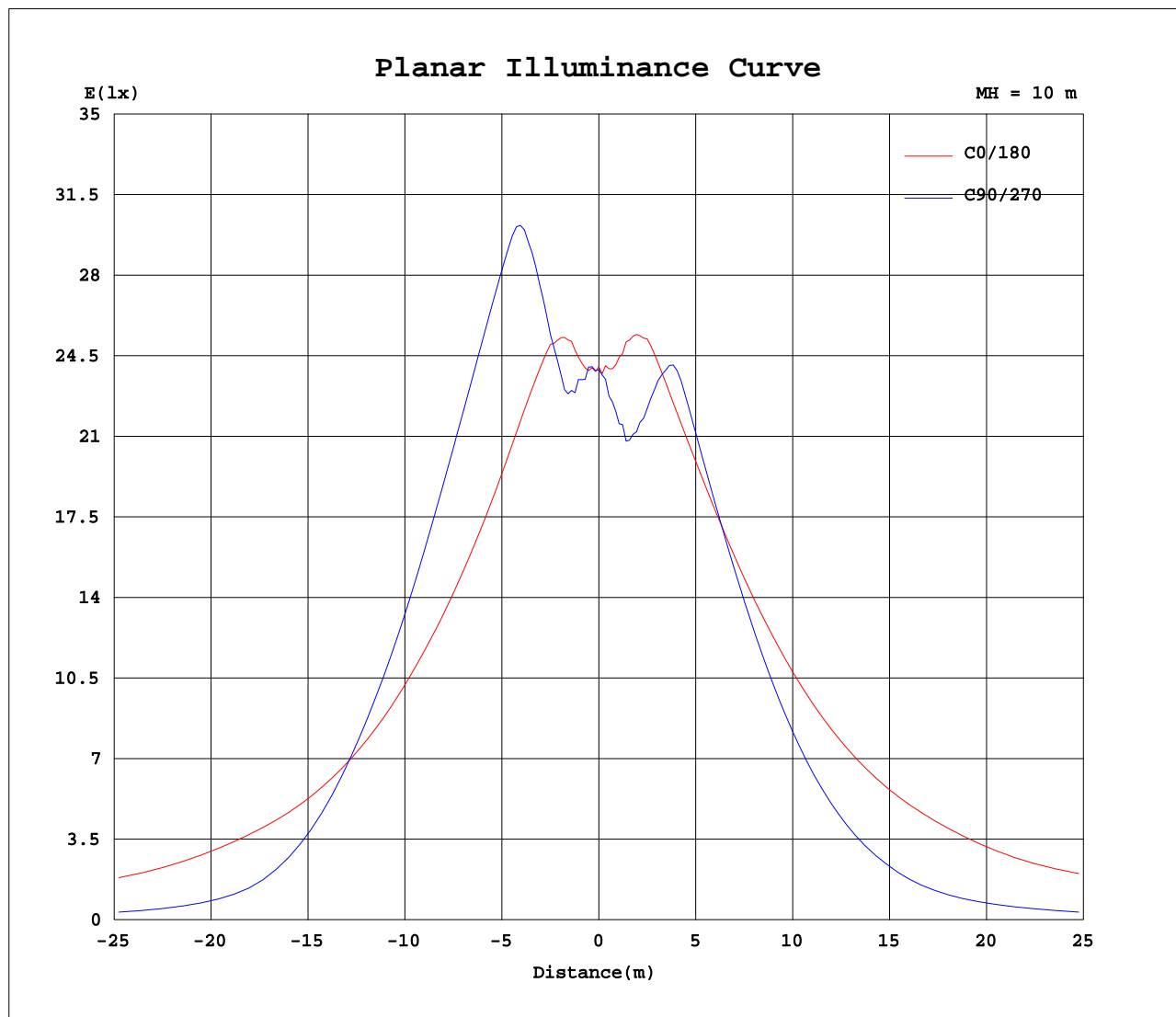
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.10.31

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

Planar Illuminance Curve



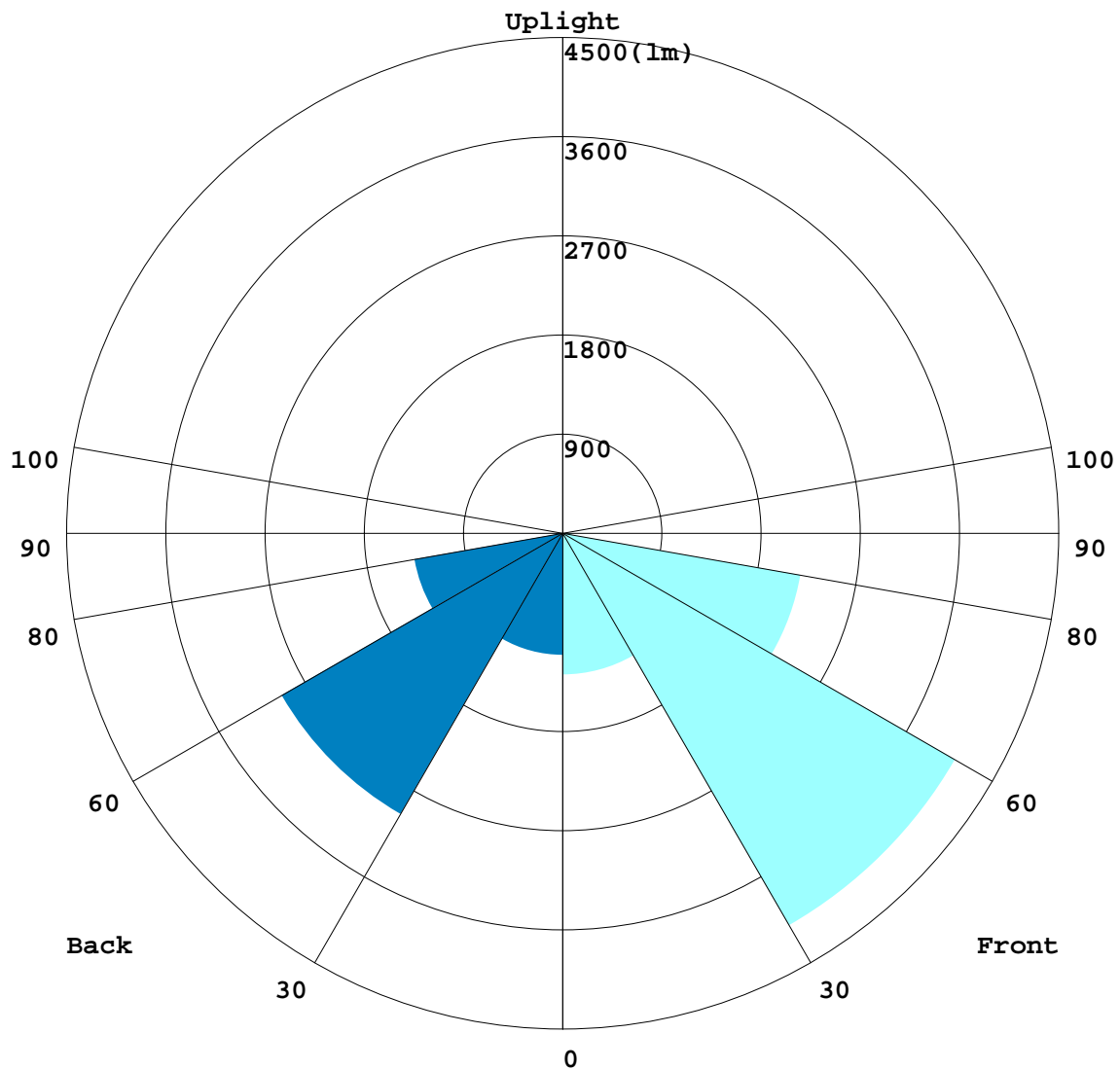
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017.10.31

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.480m [K=1.0000]
Remarks:

LCS REPORT

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.10.31

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

BUG REPORT

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1282.5	9.7
FM - Front-Medium(30-60)	4110.7	31.1
FH - Front-High(60-80)	2191.5	16.6
FVH - Front-Very High(80-90)	85.504	0.6
Total Forward Light	7697.5	58.3

BL - Back-Low(0-30)	1105.3	8.4
BM - Back-Medium(30-60)	2942.6	22.3
BH - Back-High(60-80)	1364.2	10.3
BVH - Back-Very High(80-90)	64.508	0.5
Total Back Light	5502.3	41.7

UL - Uplight-Low(90-100)	50.826	0.4
UH - Uplight-High(100-180)	2.2081	0.0
Total Up Light	53.034	0.4

BUG(Back,Up,Glare) Rating	B3-U3-G3
---------------------------	----------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	5476.5	25.782	5502.3
Street Side	7670.2	27.252	7697.5

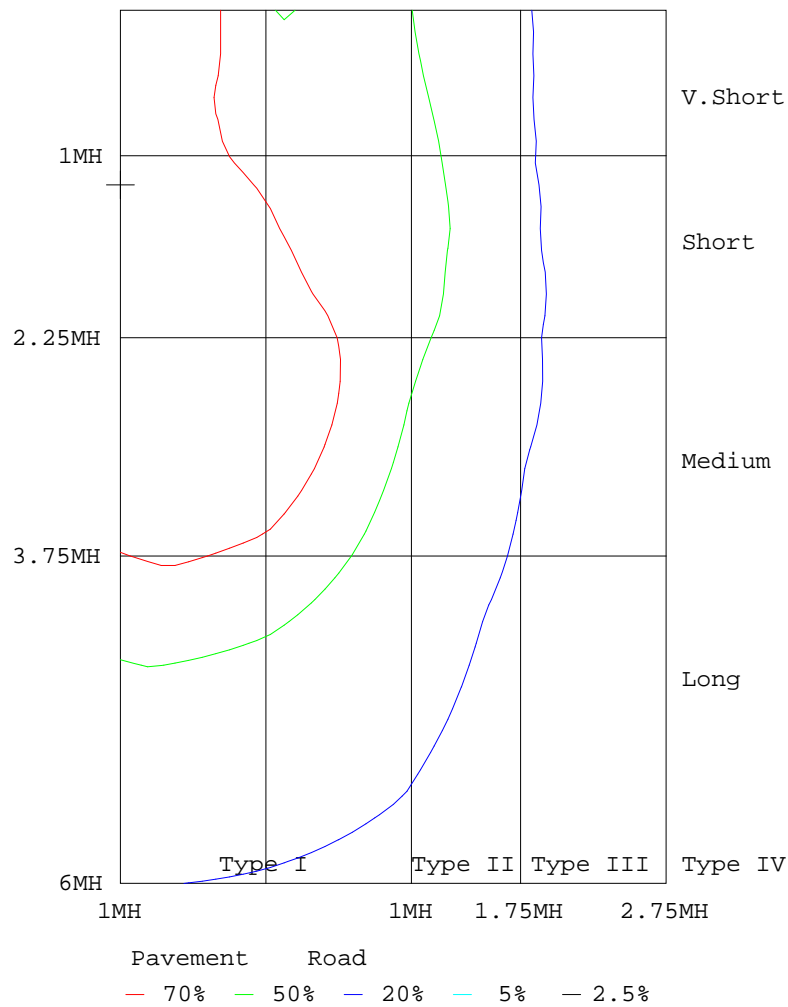
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.10.31

γ Range: 0 - 100DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.10.31

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	2402	2405	2402	2402	2402	2398	2402	2394	2400	2390	2398	2386	2394	2384	2389	2381	2382	2376	2402
5	2447	2442	2455	2424	2426	2400	2398	2376	2393	2373	2400	2387	2408	2411	2434	2430	2450	2447	2439
10	2649	2676	2661	2643	2557	2496	2457	2438	2414	2411	2430	2454	2473	2519	2594	2684	2703	2699	2654
15	2738	2741	2802	2776	2768	2706	2717	2793	2879	2907	2886	2807	2748	2754	2825	2856	2878	2807	2768
20	2726	2806	2798	2831	2852	2950	3169	3344	3518	3550	3535	3384	3215	3010	2930	2924	2891	2889	2761
25	2710	2763	2810	2863	2965	3316	3670	3843	3904	3919	3922	3884	3734	3403	3073	2959	2925	2855	2772
30	2716	2807	2849	2896	3227	3683	3932	3968	3973	3983	3991	4009	4005	3804	3362	3011	2996	2943	2812
35	2753	2859	2917	3019	3529	3961	4043	4020	4007	4010	4024	4062	4118	4065	3669	3157	3059	2994	2872
40	2812	2910	2964	3190	3821	4125	4104	4029	3970	3962	3992	4077	4182	4232	3966	3361	3129	3066	2952
45	2887	2979	3047	3406	4046	4248	4098	3919	3782	3754	3810	3974	4186	4353	4193	3587	3239	3151	3046
50	2963	3044	3135	3629	4294	4297	3962	3624	3371	3311	3416	3703	4066	4405	4424	3834	3319	3258	3151
55	3053	3141	3253	3894	4460	4210	3640	3034	2582	2464	2651	3147	3761	4330	4594	4067	3465	3395	3271
60	3211	3308	3409	4146	4528	3909	2931	2075	1526	1394	1609	2216	3094	4038	4633	4336	3655	3598	3447
65	3362	3517	3604	4336	4269	3114	1827	1038	801	801	828	1140	1996	3273	4342	4496	3831	3744	3587
70	3649	3718	3843	4215	3297	1645	722	575	551	551	559	593	795	1793	3381	4273	4033	4059	3954
75	3081	3556	3471	3015	1251	495	397	362	324	317	327	370	408	544	1347	2921	3311	3385	3031
80	1192	1502	1350	664	255	225	188	162	139	129	141	164	193	232	272	643	1117	1240	1064
85	99.7	193	160	128	92.3	69.8	51.2	45.4	37.6	33.7	37.9	45.9	52.2	71.2	92.7	129	157	165	78.5
90	9.17	131	118	84.9	53.3	33.7	22.8	15.9	10.8	7.39	10.6	15.5	22.1	32.3	51.1	81.4	113	127	10.5
95	11.2	120	107	77.1	50.0	33.5	23.7	17.2	12.2	9.39	11.8	16.6	22.7	31.8	47.2	72.7	100	114	12.2
100	13.6	94.7	83.6	60.8	42.0	30.9	23.7	18.3	13.9	11.7	13.4	17.5	22.3	28.9	39.0	55.7	75.4	85.9	14.7
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00	0.00	0.00

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.10.31

γ Range: 0 - 100DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:

Table--2

UNIT: cd

C(DEC)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
γ (DEC)																			
0	2405	2402	2402	2402	2398	2402	2394	2400	2390	2398	2386	2394	2384	2389	2381	2382	2376		
5	2430	2395	2379	2317	2306	2289	2249	2239	2234	2241	2239	2276	2305	2306	2379	2413	2424		
10	2609	2550	2499	2424	2324	2253	2232	2200	2208	2184	2221	2243	2304	2404	2466	2537	2597		
15	2765	2668	2592	2487	2412	2397	2429	2478	2512	2479	2425	2375	2389	2452	2543	2616	2701		
20	2701	2650	2547	2493	2526	2666	2778	2860	2902	2854	2770	2652	2511	2435	2500	2591	2627		
25	2704	2616	2517	2526	2734	2928	2998	2992	2979	2978	2972	2909	2713	2474	2440	2532	2650		
30	2720	2592	2482	2650	2912	2997	2958	2912	2891	2894	2919	2944	2867	2599	2419	2499	2622		
35	2726	2573	2524	2791	2996	2960	2865	2798	2767	2776	2816	2885	2915	2740	2449	2486	2636		
40	2762	2586	2615	2931	2997	2868	2728	2630	2583	2602	2669	2779	2885	2836	2520	2483	2675		
45	2817	2598	2717	2986	2945	2724	2515	2378	2312	2341	2444	2615	2810	2869	2621	2492	2706		
50	2882	2647	2821	3014	2806	2477	2195	2017	1938	1980	2118	2356	2643	2840	2692	2515	2753		
55	2970	2715	2892	2922	2526	2078	1741	1558	1483	1523	1662	1958	2351	2740	2729	2574	2822		
60	3089	2804	2892	2647	2023	1495	1182	1066	1025	1045	1132	1395	1863	2449	2723	2631	2933		
65	3270	2796	2607	2019	1283	917	776	758	753	752	757	864	1180	1870	2470	2672	3088		
70	3223	2413	1853	1118	701	582	565	557	549	554	557	569	665	1066	1829	2405	3154		
75	2286	1421	815	494	385	368	332	306	288	302	324	360	378	488	842	1511	2329		
80	847	425	252	204	189	174	153	141	128	138	149	168	184	200	258	509	952		
85	163	124	92.1	73.3	60.7	51.1	45.7	41.2	35.1	40.3	44.8	49.8	59.0	72.9	92.0	129	178		
90	114	94.5	66.7	45.2	31.9	23.2	16.7	11.7	8.03	11.5	16.6	23.4	32.4	46.2	69.0	99.2	121		
95	104	87.5	63.2	44.8	33.5	25.5	19.1	13.9	10.9	13.9	19.3	26.1	34.3	46.4	66.2	93.2	113		
100	81.5	70.5	53.6	41.0	32.9	26.8	21.4	16.8	14.5	17.0	22.0	27.8	34.2	42.9	57.1	76.9	91.6		
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.10.31

γ Range: 0 - 100DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks: