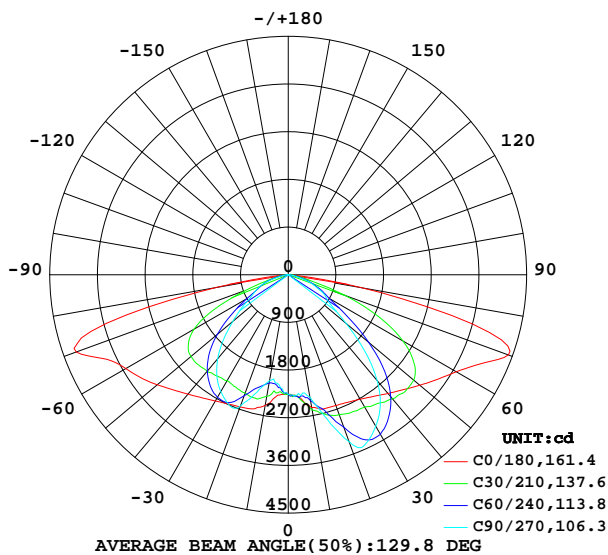
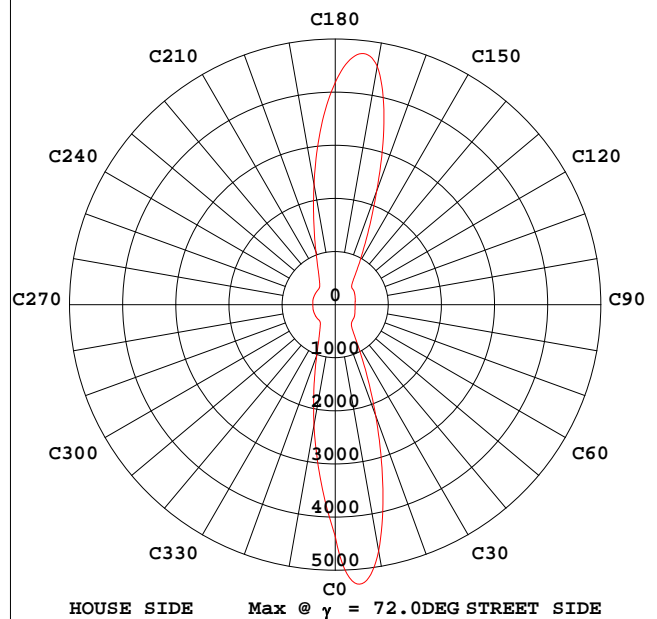


STREETLIGHT PHOTOMETRIC TEST REPORT

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

DATA OF LAMP		PHOTOMETRIC DATA Eff: 115.00 lm/W			
MODEL	LD90LMA 2M 3030	Imax(cd)	4709	η street_up(%)	0.2
NOMINAL POWER(W)	90	LOR(%)	100.0	η street_down(%)	55.0
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	10350	η house_up(%)	0.2
NOMINAL FLUX(lm)	10350	MAXIMUM @(C, γ)	10,72.0	η house_down(%)	44.6
LAMPS INSIDE	1	η up(%)	0.5	76 FLASHAREA(m2)	0.05000
TEST VOLTAGE(V)	220.1	η down(%)	99.6	SLI	24.307

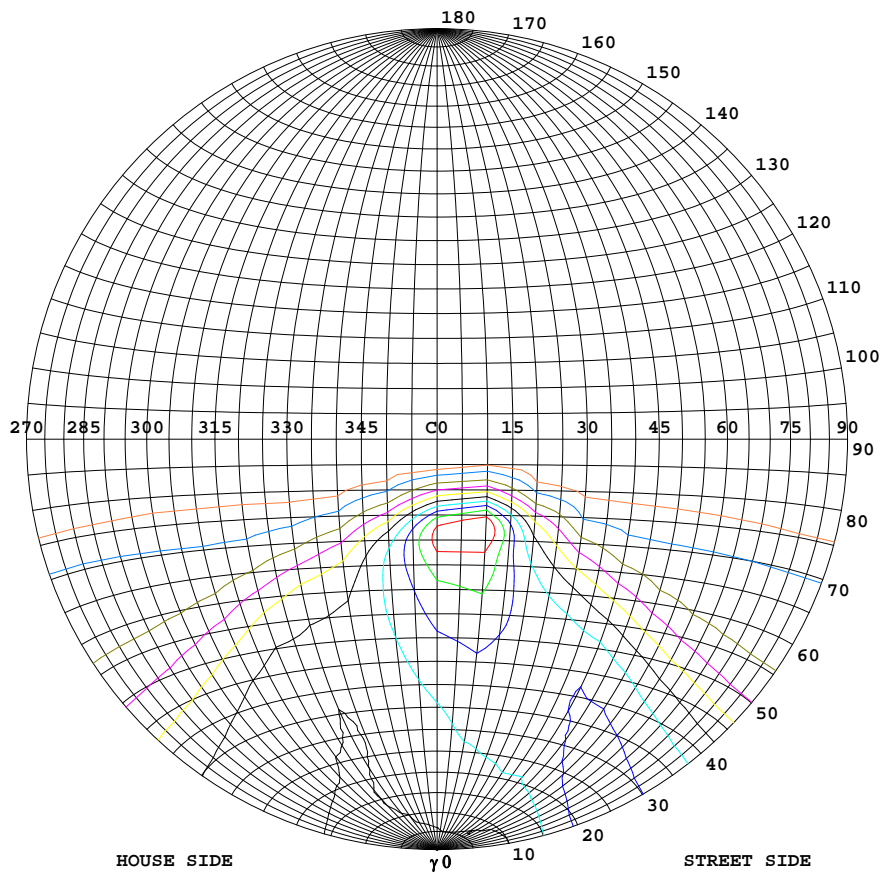
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:



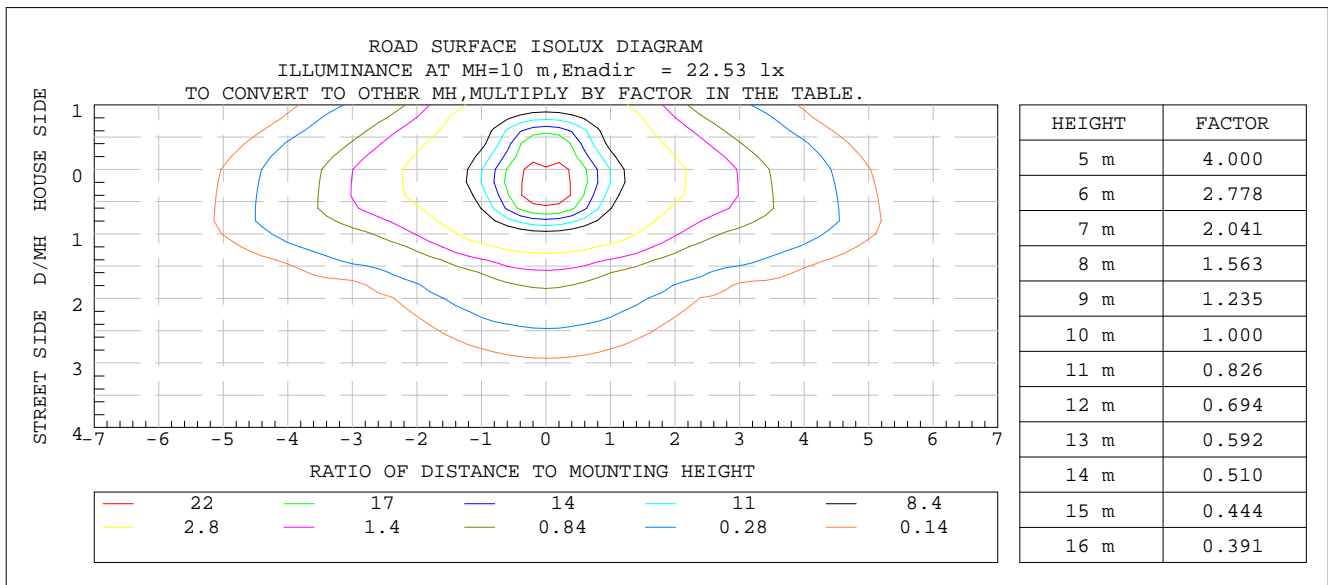
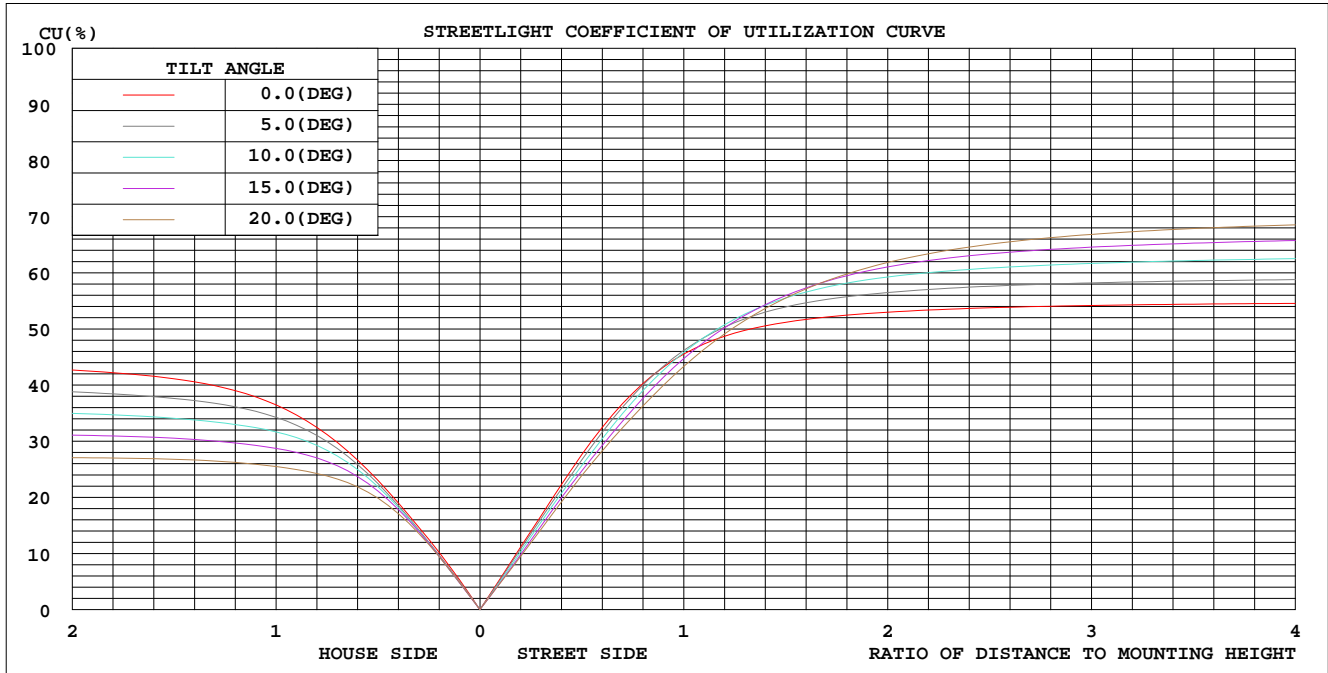
Classification:

IES:Type I - Medium
 CIE:Narrow - Long
 IES:Semi cut-off
 CIE:Non-cut-off
 Max.At80:178.3cd/klm
 Max.At90:11.98cd/klm
 Max.80-90:178.3cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4709
90%	4238
80%	3767
70%	3296
60%	2826
50%	2355
40%	1884
30%	1413
20%	942
10%	471
5%	235

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:

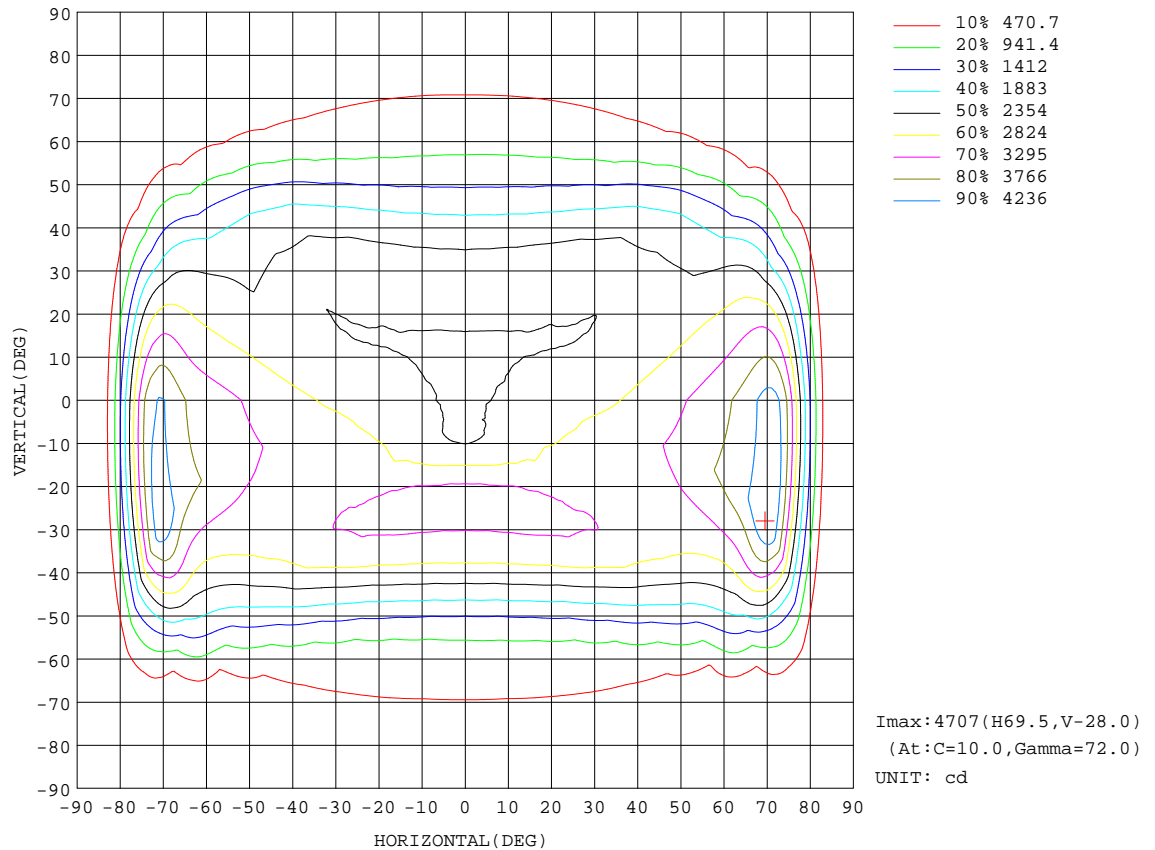
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	2544	2479	2342	2440	2505	2195	2036	2212	0- 10	217.4	217.4	2.1,2.1
20	2627	2847	3351	2842	2653	2316	2635	2306	10- 20	723.7	941.1	9.09,9.09
30	2714	3268	3303	3284	2752	2541	2547	2546	20- 30	1309	2250	21.7,21.7
40	2926	3288	2614	3286	2944	2565	2073	2574	30- 40	1759	4008	38.7,38.7
50	3244	2702	1424	2705	3229	2233	1361	2202	40- 50	1954	5962	57.6,57.6
60	3664	1505	810.5	1542	3541	1399	797.7	1354	50- 60	1818	7781	75.2,75.2
70	4424	559.1	451.9	572.8	4259	532.7	500.4	517.6	60- 70	1498	9279	89.6,89.6
80	1398	158.8	104.3	171.6	1365	171.5	122.1	159.2	70- 80	894.7	10173	98.3,98.3
90	7.982	35.71	6.593	34.97	9.108	31.79	6.818	31.24	80- 90	130.2	10304	99.5,99.6
100	11.24	30.95	10.31	30.20	12.49	30.31	10.71	30.23	90-100	44.86	10348	100,100
110	0	0	0	0	0	0	0	0	100-110	1.952	10350	100,100
120	0	0	0	0	0	0	0	0	110-120	0	10350	100,100
130	0	0	0	0	0	0	0	0	120-130	0	10350	100,100
140	0	0	0	0	0	0	0	0	130-140	0	10350	100,100
150	0	0	0	0	0	0	0	0	140-150	0	10350	100,100
160	0	0	0	0	0	0	0	0	150-160	0	10350	100,100
170	0	0	0	0	0	0	0	0	160-170	0	10350	100,100
180	0	0	0	0	0	0	0	0	170-180	0	10350	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

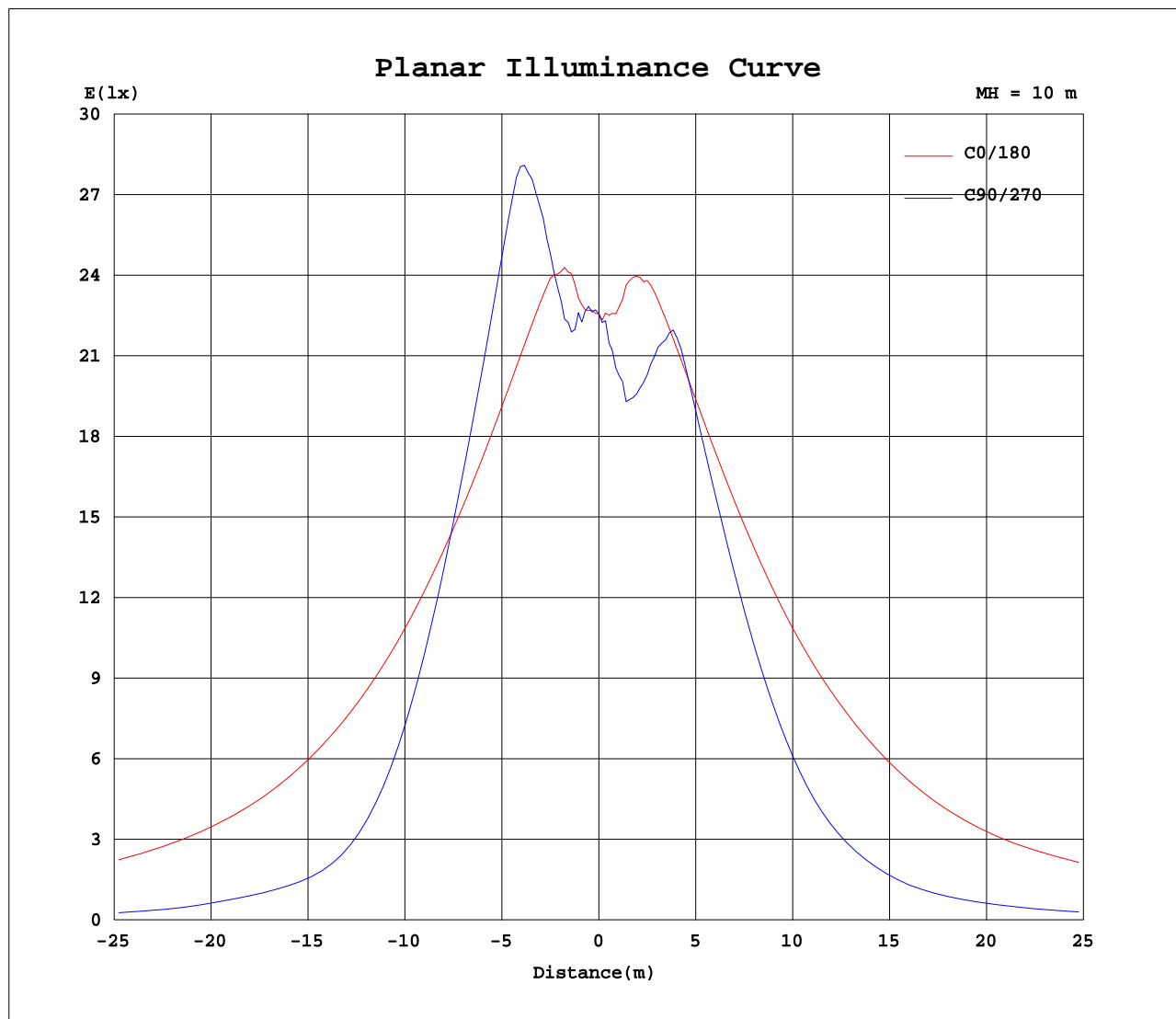
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:



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



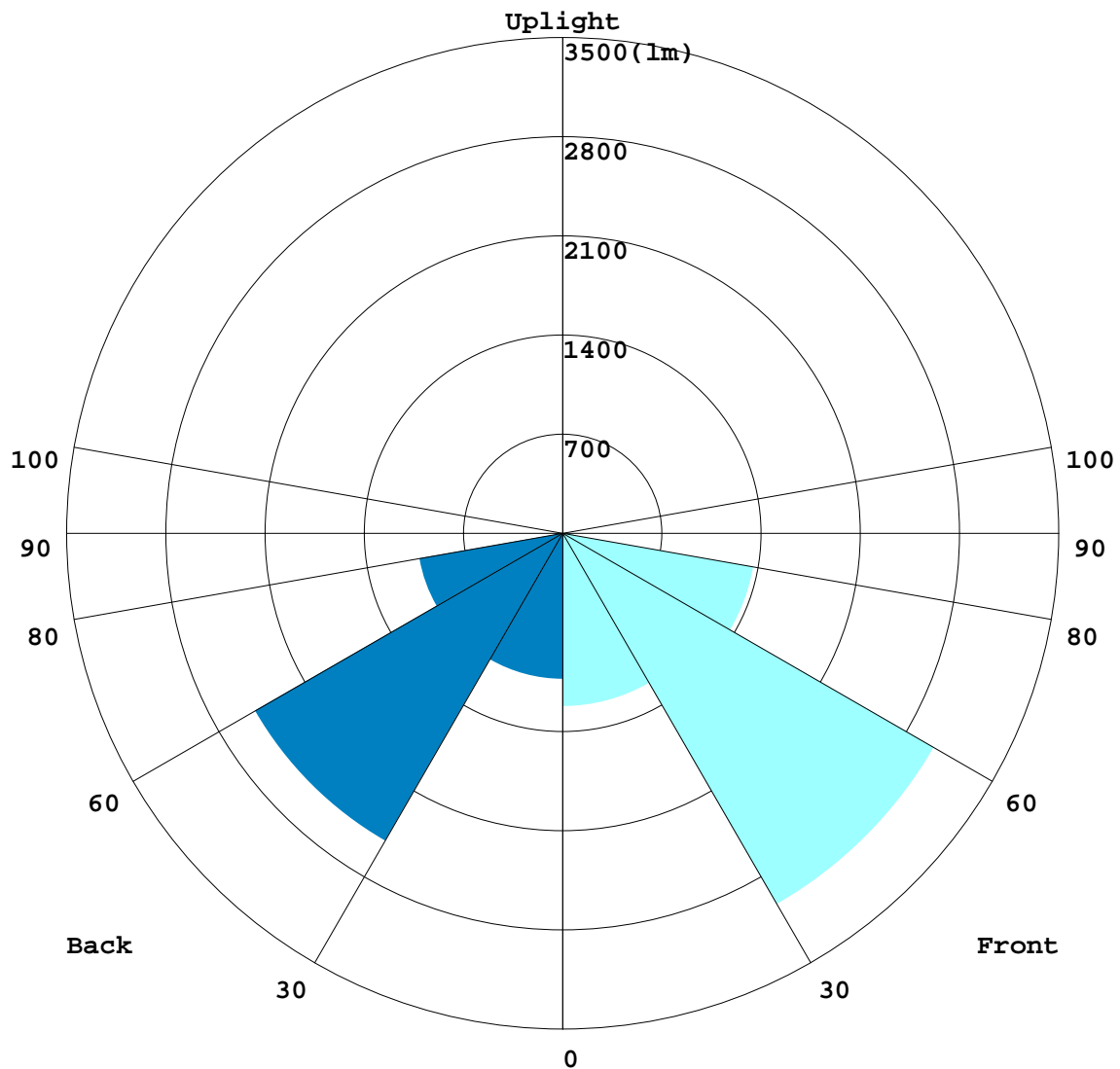
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017.10.31

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)	1221.4	11.8
FM - Front-Medium(30-60)	3024.6	29.2
FH - Front-High(60-80)	1366.1	13.2
FVH - Front-Very High(80-90)	76.842	0.7
Total Forward Light	5713.6	55.2

BL - Back-Low(0-30)	1028.4	9.9
BM - Back-Medium(30-60)	2506.2	24.2
BH - Back-High(60-80)	1026.6	9.9
BVH - Back-Very High(80-90)	53.366	0.5
Total Back Light	4636.9	44.8

UL - Uplight-Low(90-100)	44.863	0.4
UH - Uplight-High(100-180)	1.9516	0.0
Total Up Light	46.814	0.5

BUG(Back,Up,Glare) Rating	B3-U2-G3
---------------------------	----------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	4614.6	22.23	4636.9
Street Side	5689	24.585	5713.6

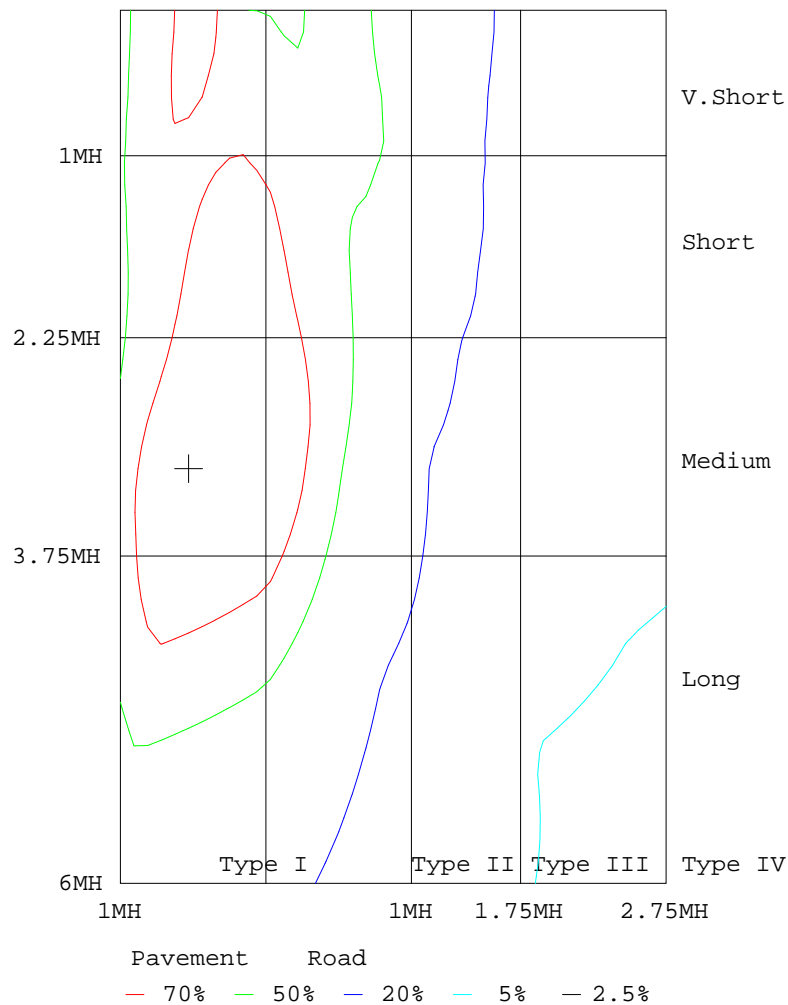
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.10.31

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(DEC) γ (DEC)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	2257	2260	2249	2258	2247	2259	2249	2258	2249	2256	2251	2254	2252	2252	2253	2249	2252	2250	2257
5	2317	2357	2354	2332	2342	2305	2330	2305	2280	2251	2263	2294	2324	2294	2327	2308	2307	2329	2283
10	2544	2559	2585	2587	2515	2442	2413	2379	2356	2342	2352	2357	2381	2391	2488	2561	2561	2528	2505
15	2618	2692	2747	2730	2723	2654	2649	2720	2789	2814	2781	2722	2645	2638	2698	2723	2746	2707	2623
20	2627	2774	2785	2813	2800	2894	3059	3216	3333	3351	3334	3212	3074	2892	2792	2814	2806	2809	2653
25	2656	2779	2844	2857	2924	3180	3437	3518	3512	3502	3512	3526	3454	3214	2936	2862	2865	2795	2690
30	2714	2889	2923	2882	3122	3414	3478	3395	3323	3303	3324	3395	3479	3426	3141	2895	2938	2912	2752
35	2804	2976	2996	2963	3257	3415	3300	3157	3059	3029	3056	3154	3297	3418	3272	2982	2993	2972	2835
40	2926	3100	3058	3058	3316	3260	3010	2802	2656	2614	2656	2797	3004	3248	3324	3075	3054	3081	2944
45	3069	3240	3137	3119	3203	2952	2572	2291	2100	2047	2102	2289	2570	2947	3203	3118	3112	3208	3071
50	3244	3402	3152	3094	2942	2462	1978	1667	1472	1424	1475	1667	1982	2468	2943	3092	3144	3364	3229
55	3441	3595	3156	2897	2451	1828	1348	1103	996	973	987	1097	1358	1848	2482	2887	3145	3537	3394
60	3664	3806	3073	2503	1815	1195	896	832	812	810	806	812	882	1217	1867	2543	3069	3684	3541
65	3989	4060	2864	1897	1131	767	684	642	624	623	625	637	672	762	1189	1972	2834	3834	3780
70	4424	4549	2477	1128	601	517	489	470	454	452	455	474	487	519	627	1236	2477	4286	4259
75	3604	4129	1605	439	352	326	304	280	256	253	259	285	311	335	364	497	1735	4114	3555
80	1398	1724	400	204	168	149	136	123	110	104	111	127	143	159	184	218	467	1845	1365
85	136	215	134	94.5	63.9	48.5	38.6	35.0	30.2	27.5	31.0	36.9	41.6	52.3	68.1	99.3	140	226	110
90	7.98	124	107	71.7	43.6	27.8	19.3	13.8	9.51	6.59	9.53	13.8	19.3	27.5	42.4	69.4	104	124	9.11
95	9.49	112	96.4	65.9	41.4	27.8	20.0	14.8	10.6	8.35	10.6	14.8	19.9	27.3	40.5	64.2	94.5	113	10.5
100	11.2	88.7	76.8	53.8	35.9	26.0	20.0	15.6	11.9	10.3	11.9	15.5	19.7	25.5	34.9	51.7	73.3	86.1	12.5
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	2260	2249	2258	2247	2259	2249	2258	2249	2256	2251	2254	2252	2252	2253	2249	2252	2250		
5	2313	2260	2237	2190	2152	2138	2099	2058	2079	2075	2086	2146	2155	2171	2230	2270	2293		
10	2459	2390	2329	2245	2145	2076	2048	2028	2036	2027	2061	2093	2160	2264	2324	2384	2455		
15	2613	2496	2412	2302	2213	2206	2228	2268	2296	2267	2229	2203	2226	2304	2407	2488	2600		
20	2602	2494	2377	2311	2322	2427	2528	2603	2635	2605	2533	2440	2321	2291	2371	2479	2527		
25	2575	2474	2343	2334	2506	2665	2711	2698	2687	2702	2715	2675	2517	2331	2333	2447	2568		
30	2609	2457	2310	2443	2639	2673	2613	2564	2547	2569	2619	2680	2649	2444	2312	2436	2576		
35	2613	2426	2337	2522	2639	2565	2448	2375	2348	2378	2451	2567	2653	2544	2342	2432	2609		
40	2649	2421	2381	2579	2551	2376	2212	2113	2073	2108	2204	2367	2549	2598	2387	2433	2683		
45	2700	2398	2403	2527	2373	2111	1897	1775	1726	1767	1878	2081	2349	2538	2430	2422	2750		
50	2750	2377	2398	2387	2078	1745	1511	1397	1361	1398	1498	1712	2035	2369	2428	2411	2822		
55	2782	2345	2304	2099	1660	1312	1136	1068	1051	1076	1140	1298	1611	2068	2321	2404	2896		
60	2795	2261	2054	1644	1155	909	803	795	798	807	819	904	1118	1590	2069	2289	2946		
65	2790	1976	1532	1035	718	639	637	650	654	655	648	647	697	983	1511	1987	2964		
70	2589	1394	834	571	494	493	498	503	500	503	498	494	492	543	803	1365	2662		
75	1629	621	373	347	332	327	306	289	276	285	300	319	323	333	352	582	1555		
80	461	213	194	178	165	156	142	133	122	130	137	148	154	164	178	195	430		
85	139	113	83.7	64.8	53.9	47.3	43.0	38.9	33.2	37.2	40.1	42.9	48.2	58.9	77.3	104	129		
90	109	86.0	58.0	37.7	25.9	19.1	14.2	10.1	6.82	9.61	13.4	18.3	25.3	37.2	57.4	85.5	109		
95	101	81.3	56.0	37.6	26.7	20.1	15.3	11.3	8.58	10.8	14.7	19.6	26.3	37.2	55.1	80.3	101		
100	79.7	66.6	48.3	34.6	26.0	20.6	16.4	12.7	10.7	12.4	16.0	20.4	26.0	34.5	48.1	66.8	82.3		
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: