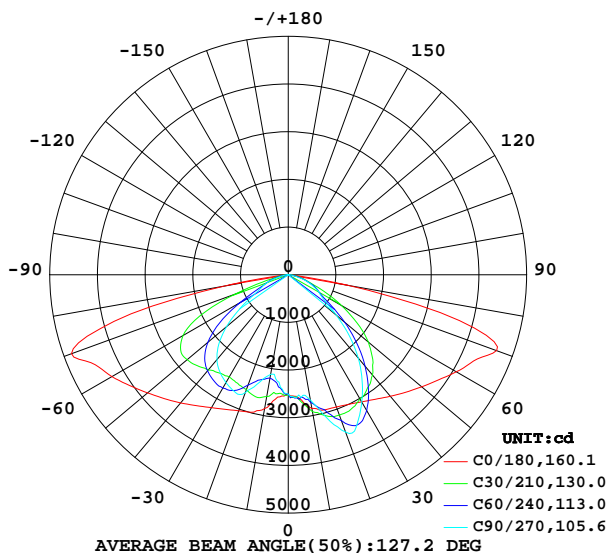
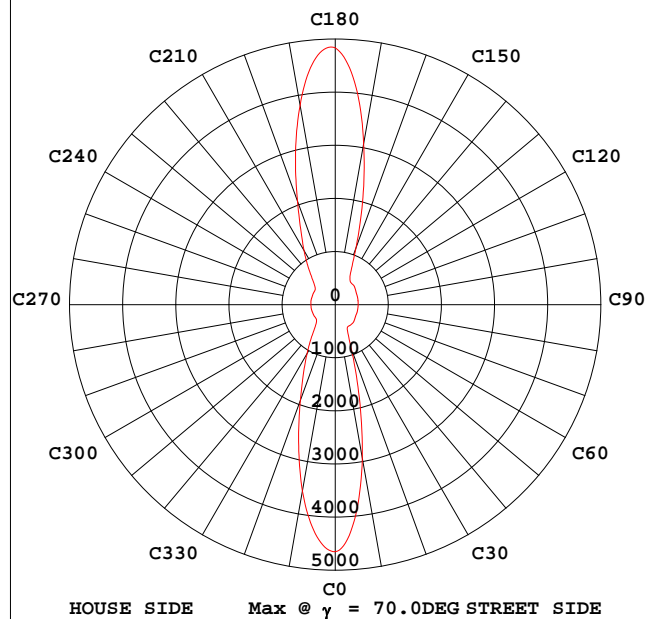


STREETLIGHT PHOTOMETRIC TEST REPORT

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 1M 3030	Imax(cd)	4836	η street_up(%)	0.2
NOMINAL POWER(W)	90	LOR(%)	100.0	η street_down(%)	48.7
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	10350	η house_up(%)	0.2
NOMINAL FLUX(lm)	10350	MAXIMUM @ (C, γ)	180,70.0	η house_down(%)	50.8
LAMPS INSIDE	1	η up(%)	0.4	76 FLASHAREA(m2)	0.05000
TEST VOLTAGE(V)	220.1	η down(%)	99.6	SLI	24.106

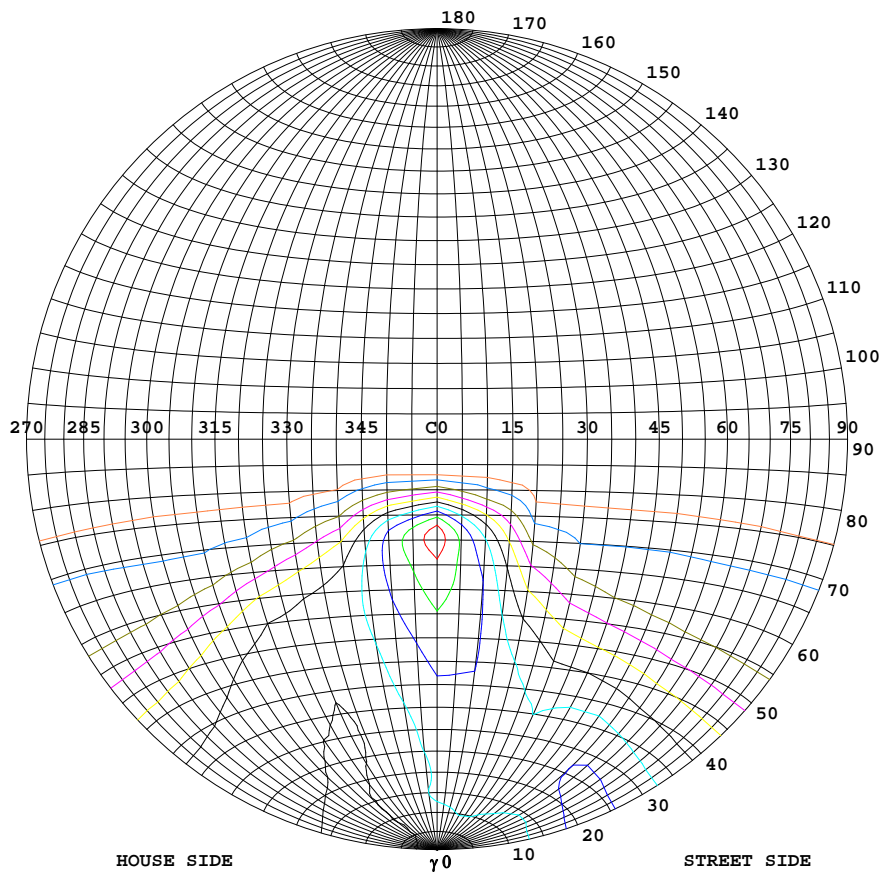
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:

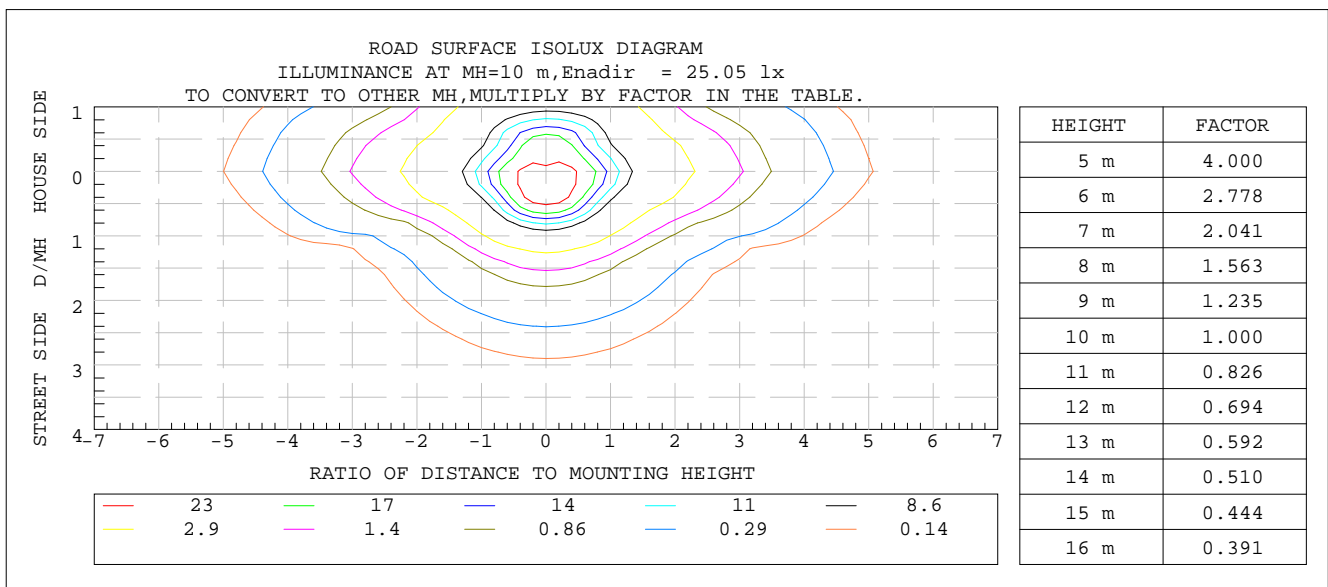
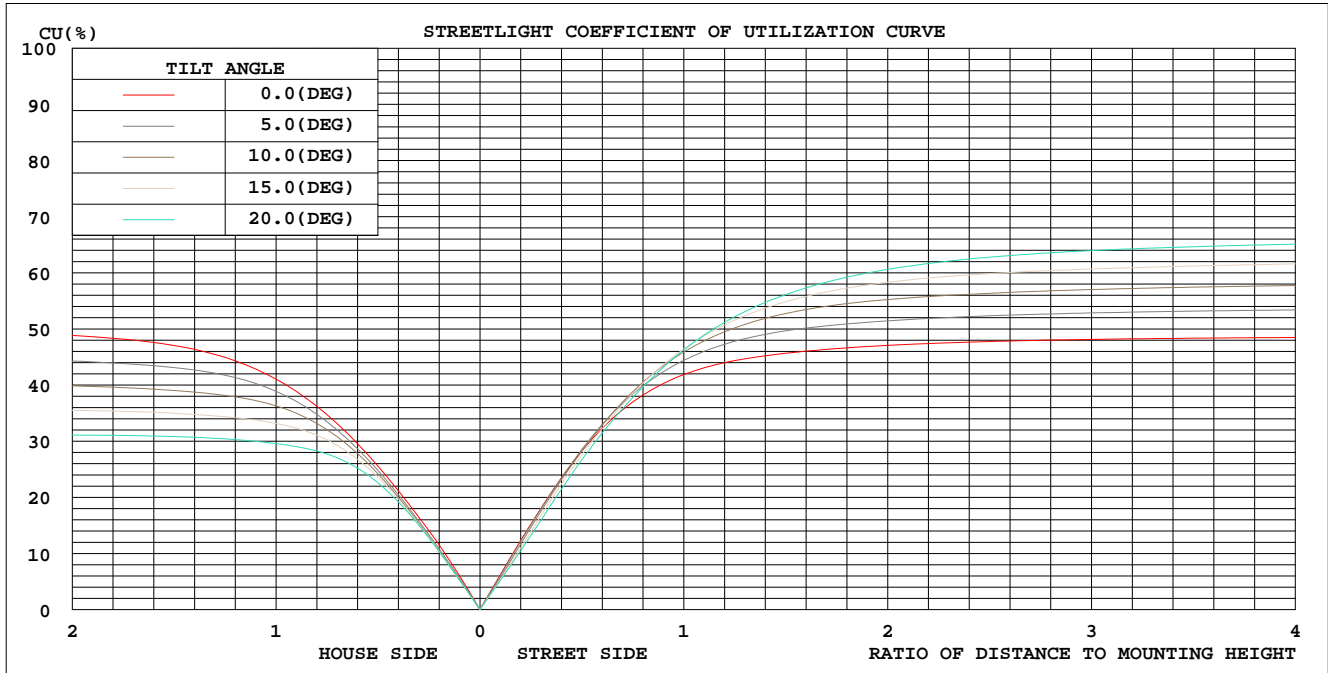
IES:Type V - Medium
 CIE:Narrow - Long
 IES:Semi cut-off
 CIE:Non-cut-off
 Max.At80:131.0cd/klm
 Max.At90:11.67cd/klm
 Max.80-90:131.0cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4836
90%	4352
80%	3869
70%	3385
60%	2902
50%	2418
40%	1934
30%	1451
20%	967
10%	484
5%	242

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:

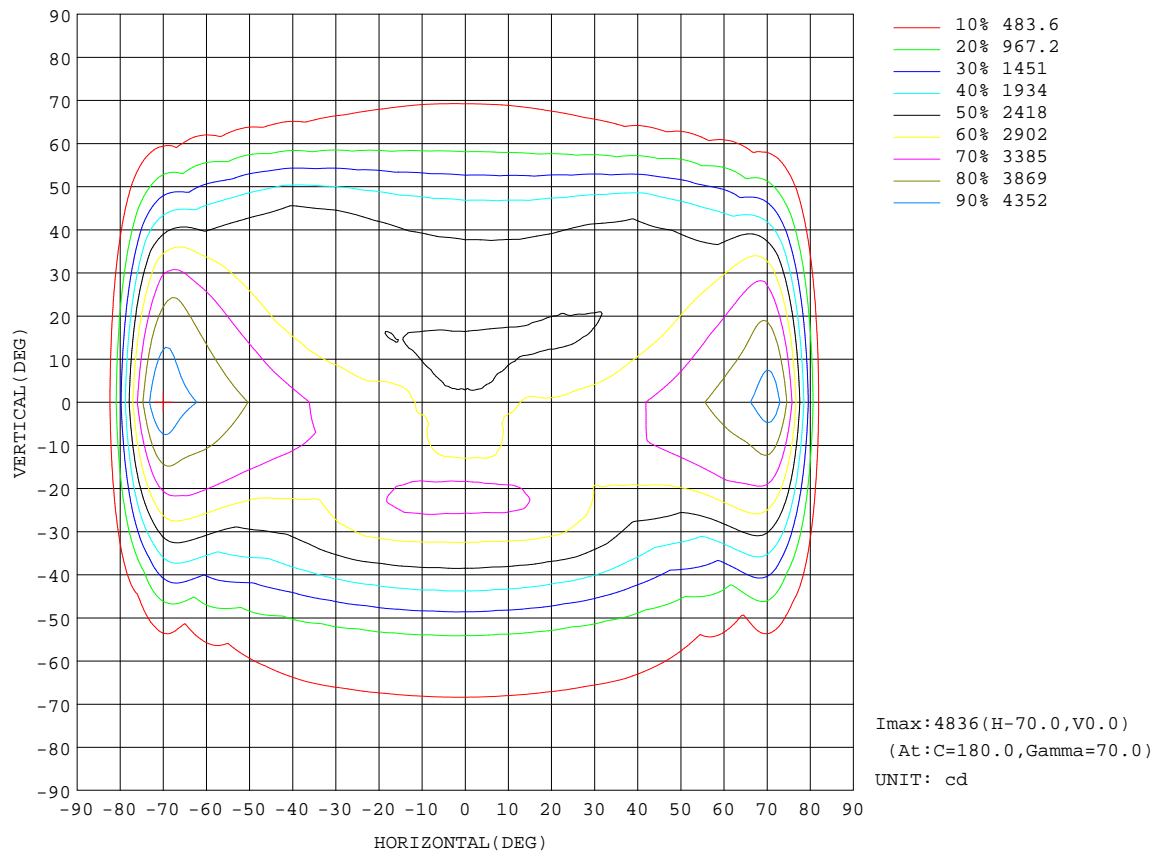
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	2845	2788	2662	2773	2848	2372	2122	2361	0- 10	242.4	242.4	2.34,2.34
20	2952	3104	3508	3171	3037	2414	2630	2331	10- 20	788.9	1031	9.96,9.96
30	3079	3209	3085	3290	3220	2620	2612	2503	20- 30	1368	2399	23.2,23.2
40	3329	2741	2290	2819	3509	2811	2327	2656	30- 40	1779	4178	40.4,40.4
50	3654	1854	1310	1951	3855	2695	1684	2491	40- 50	1958	6137	59.3,59.3
60	4072	896.0	749.6	973.2	4271	1890	821.4	1697	50- 60	1816	7953	76.8,76.8
70	4650	472.8	432.5	496.5	4836	598.2	458.8	541.6	60- 70	1449	9402	90.8,90.8
80	1232	143.2	103.7	158.2	1356	174.7	117.6	156.1	70- 80	792.3	10195	98.5,98.5
90	8.520	33.65	6.967	31.23	10.41	31.19	6.751	31.67	80- 90	109.4	10304	99.6,99.6
100	11.67	32.08	10.94	29.49	12.14	28.68	10.55	29.93	90-100	44.23	10348	100,100
110	0	0	0	0	0	0	0	0	100-110	1.960	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

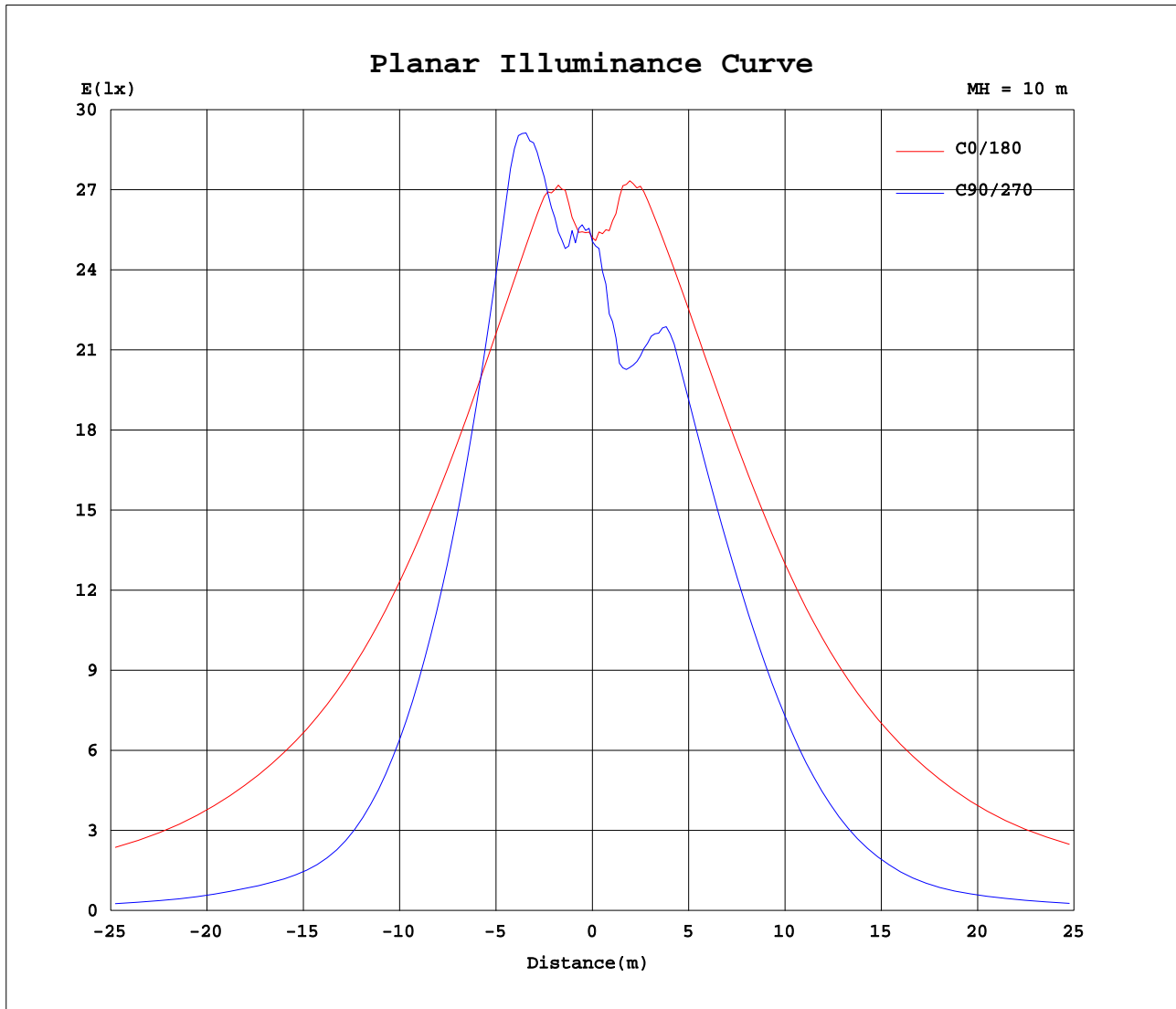
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:



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



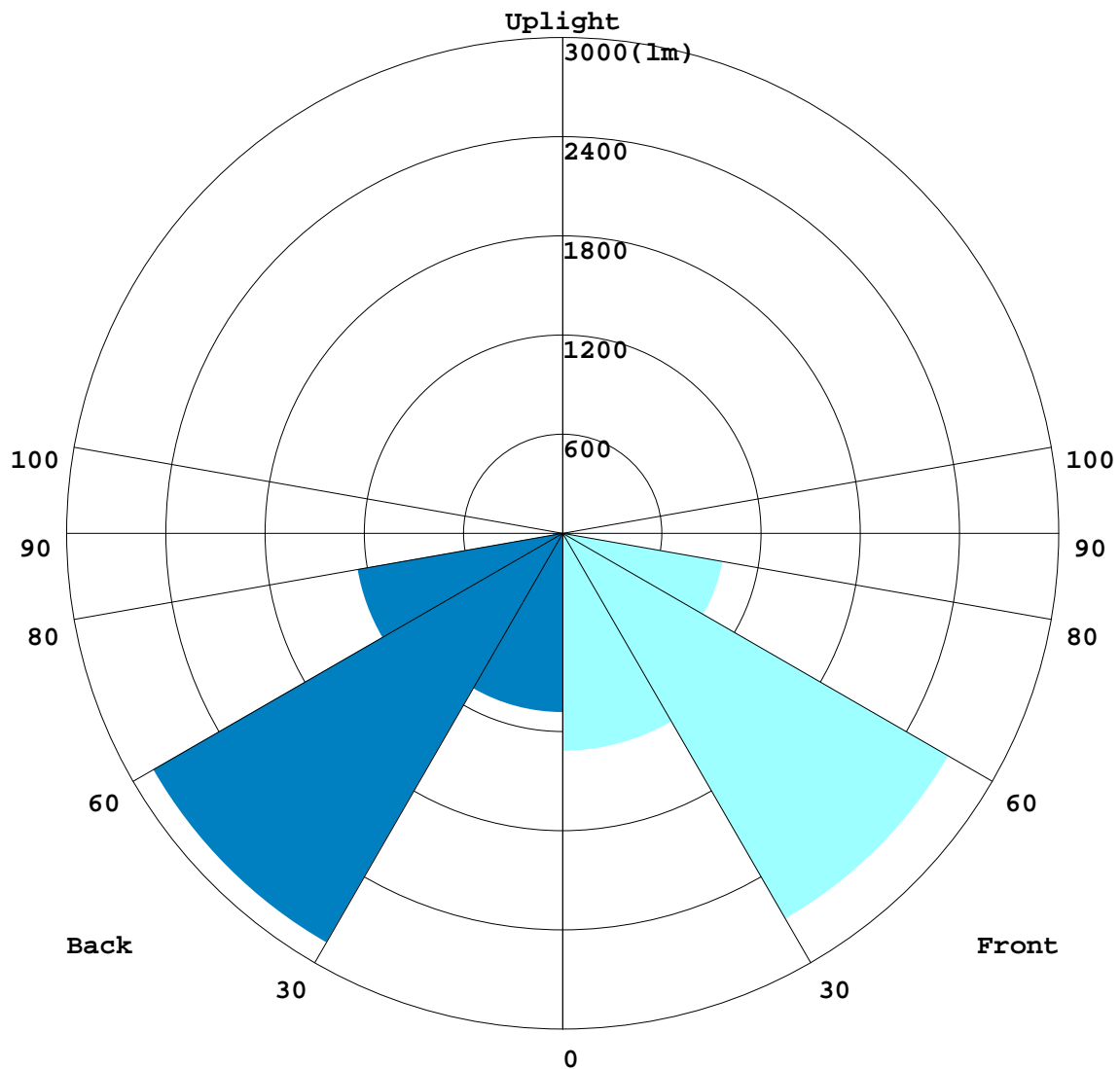
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017.10.31

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)	1316.3	12.7
FM - Front-Medium(30-60)	2694.1	26.0
FH - Front-High(60-80)	982.06	9.5
FVH - Front-Very High(80-90)	50.385	0.5
Total Forward Light	5066.3	48.9

BL - Back-Low(0-30)	1082.8	10.5
BM - Back-Medium(30-60)	2859.8	27.6
BH - Back-High(60-80)	1259.7	12.2
BVH - Back-Very High(80-90)	58.999	0.6
Total Back Light	5283.9	51.1

UL - Uplight-Low(90-100)	44.229	0.4
UH - Uplight-High(100-180)	1.9602	0.0
Total Up Light	46.189	0.4

BUG(Back,Up,Glare) Rating	B3-U2-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	5261.3	22.693	5283.9
Street Side	5042.8	23.496	5066.3

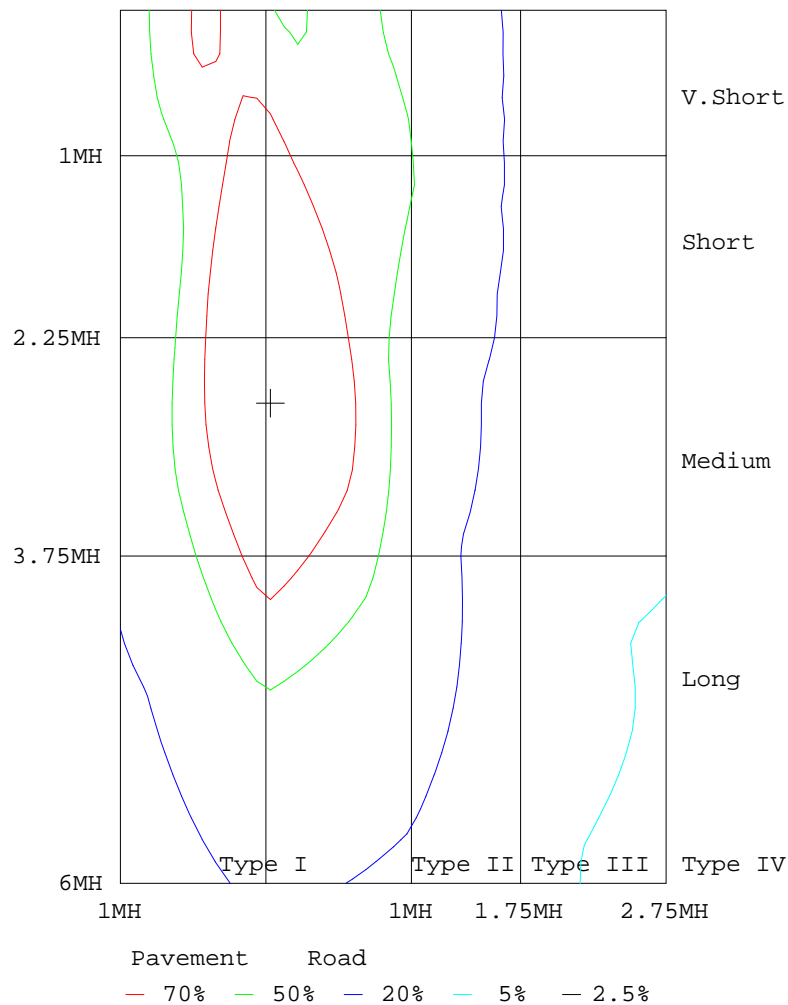
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.10.31

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	2521	2518	2507	2511	2499	2507	2498	2508	2496	2507	2497	2508	2499	2505	2503	2507	2509	2506	2521
5	2598	2659	2649	2628	2638	2595	2623	2580	2562	2530	2531	2589	2620	2582	2628	2610	2593	2627	2576
10	2845	2867	2914	2913	2826	2750	2722	2687	2664	2662	2653	2676	2699	2722	2824	2917	2916	2852	2848
15	2934	3047	3099	3062	3043	2956	2932	2986	3063	3098	3073	3039	2973	2984	3079	3124	3142	3097	2987
20	2952	3139	3123	3133	3076	3131	3253	3386	3476	3508	3497	3413	3336	3194	3148	3202	3193	3198	3037
25	3000	3131	3160	3114	3099	3281	3469	3491	3447	3435	3461	3524	3533	3398	3182	3179	3242	3200	3116
30	3079	3228	3169	3008	3120	3298	3290	3182	3099	3085	3112	3205	3321	3364	3217	3107	3276	3323	3220
35	3188	3278	3127	2897	3000	3067	2935	2800	2716	2702	2725	2819	2963	3120	3102	3033	3243	3381	3351
40	3329	3352	3036	2749	2778	2704	2510	2382	2301	2290	2314	2405	2547	2754	2884	2894	3184	3465	3509
45	3485	3398	2926	2510	2423	2254	2039	1908	1826	1813	1838	1932	2078	2310	2541	2680	3068	3528	3675
50	3654	3423	2686	2191	1964	1745	1538	1405	1320	1310	1334	1430	1582	1815	2087	2404	2902	3584	3855
55	3846	3431	2377	1758	1466	1228	1050	962	918	914	926	980	1085	1294	1608	1992	2643	3623	4055
60	4072	3409	1970	1289	977	815	756	755	748	750	752	762	772	857	1090	1537	2272	3612	4271
65	4286	3292	1482	833	641	634	626	592	583	585	586	601	638	652	695	1013	1795	3467	4466
70	4650	2942	887	480	478	467	443	437	432	432	437	446	457	487	506	558	1146	3087	4836
75	3715	1954	356	308	302	296	280	268	249	247	254	278	294	312	321	331	443	1967	3783
80	1232	540	194	168	147	139	131	120	110	104	112	126	142	154	163	180	199	486	1356
85	53.0	147	116	83.1	58.3	46.2	38.7	36.4	32.3	29.3	33.5	39.2	42.4	50.9	62.1	84.8	114	144	70.3
90	8.52	121	99.2	65.4	40.5	26.9	19.2	14.0	9.88	6.97	9.59	13.5	18.3	25.2	37.2	58.8	88.5	111	10.4
95	9.79	113	93.2	62.7	40.1	27.7	20.4	15.3	11.2	8.78	10.7	14.6	19.2	25.8	36.8	56.7	83.9	104	10.4
100	11.7	92.4	77.9	54.5	36.9	27.2	21.1	16.6	12.7	10.9	12.2	15.6	19.7	25.1	33.9	49.2	69.6	83.6	12.1
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	2518	2507	2511	2499	2507	2498	2508	2496	2507	2497	2508	2499	2505	2503	2507	2509	2506		
5	2624	2553	2504	2450	2373	2363	2311	2259	2261	2275	2286	2357	2367	2412	2477	2538	2560		
10	2823	2710	2596	2444	2300	2204	2157	2127	2122	2119	2168	2192	2285	2438	2539	2628	2730		
15	2961	2792	2649	2471	2324	2283	2291	2317	2336	2307	2268	2253	2292	2400	2560	2696	2870		
20	2972	2768	2566	2433	2395	2463	2540	2607	2630	2588	2507	2423	2324	2337	2468	2649	2772		
25	2947	2747	2513	2421	2540	2679	2728	2713	2695	2692	2683	2620	2463	2318	2393	2590	2810		
30	3035	2741	2478	2536	2704	2747	2689	2638	2612	2612	2636	2664	2600	2406	2344	2563	2827		
35	3088	2736	2518	2670	2801	2719	2602	2530	2498	2503	2540	2616	2669	2537	2376	2564	2880		
40	3175	2775	2609	2812	2811	2632	2471	2373	2327	2340	2400	2515	2653	2660	2452	2588	2976		
45	3278	2813	2700	2864	2745	2479	2254	2119	2060	2080	2169	2342	2569	2682	2538	2616	3073		
50	3410	2869	2772	2836	2554	2196	1916	1753	1684	1712	1823	2051	2361	2622	2590	2654	3184		
55	3554	2901	2755	2618	2182	1757	1454	1297	1236	1260	1364	1617	1988	2419	2548	2687	3313		
60	3707	2879	2549	2183	1596	1169	941	856	821	832	888	1062	1416	1977	2361	2629	3429		
65	3830	2663	2046	1427	902	681	615	611	607	605	600	630	801	1251	1867	2432	3546		
70	3814	2083	1180	702	494	468	462	464	459	459	452	451	461	623	1065	1925	3564		
75	2795	1073	467	348	323	313	297	282	266	274	285	296	302	318	414	948	2604		
80	974	297	200	183	167	159	139	129	118	124	129	144	150	162	176	251	829		
85	155	124	90.0	70.1	57.8	50.2	44.2	40.6	34.4	38.0	40.3	44.0	49.9	61.8	82.2	115	142		
90	110	88.4	58.6	37.1	25.3	18.6	13.9	9.95	6.75	9.60	13.5	18.4	25.4	37.9	60.8	93.0	118		
95	102	83.0	56.0	36.4	25.6	19.4	14.8	11.1	8.50	10.8	14.7	19.4	26.1	37.6	58.1	87.3	110		
100	80.5	66.8	47.3	32.8	24.5	7.82	15.8	12.4	10.5	12.2	15.8	20.0	25.4	34.4	50.0	72.0	89.6		
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: