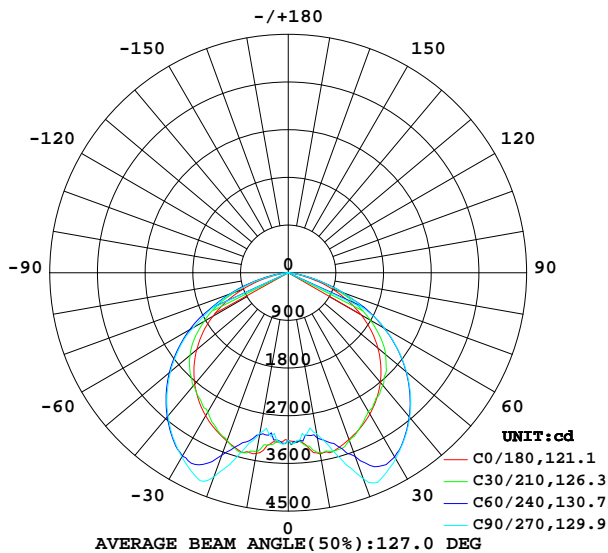
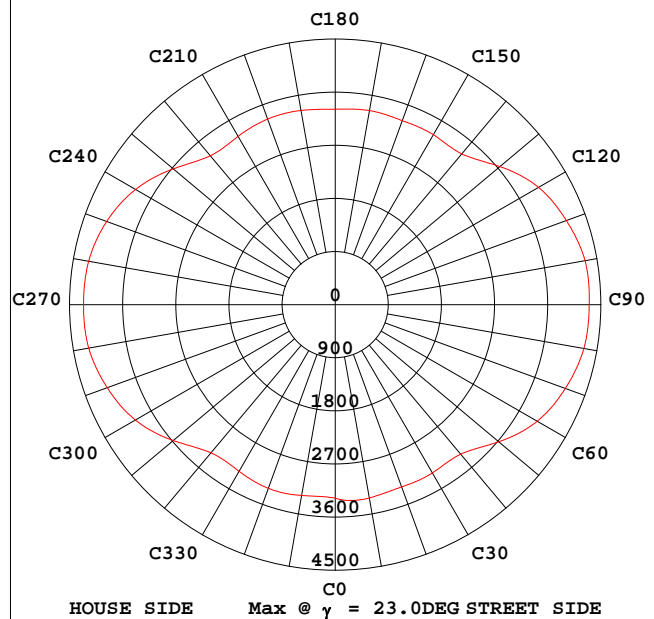


STREETLIGHT PHOTOMETRIC TEST REPORT

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

DATA OF LAMP		PHOTOMETRIC DATA Eff: 130.00 lm/W			
MODEL	LD90LMA 5S 3030	Imax(cd)	4302	η street_up(%)	0.2
NOMINAL POWER(W)	90	LOR(%)	100.0	η street_down(%)	49.8
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	11700	η house_up(%)	0.2
NOMINAL FLUX(lm)	11700	MAXIMUM @(C, γ)	90,23.0	η house_down(%)	49.9
LAMPS INSIDE	1	η up(%)	0.3	76 FLASHAREA(m2)	0.05000
TEST VOLTAGE(V)	220.1	η down(%)	99.7	SLI	21.064

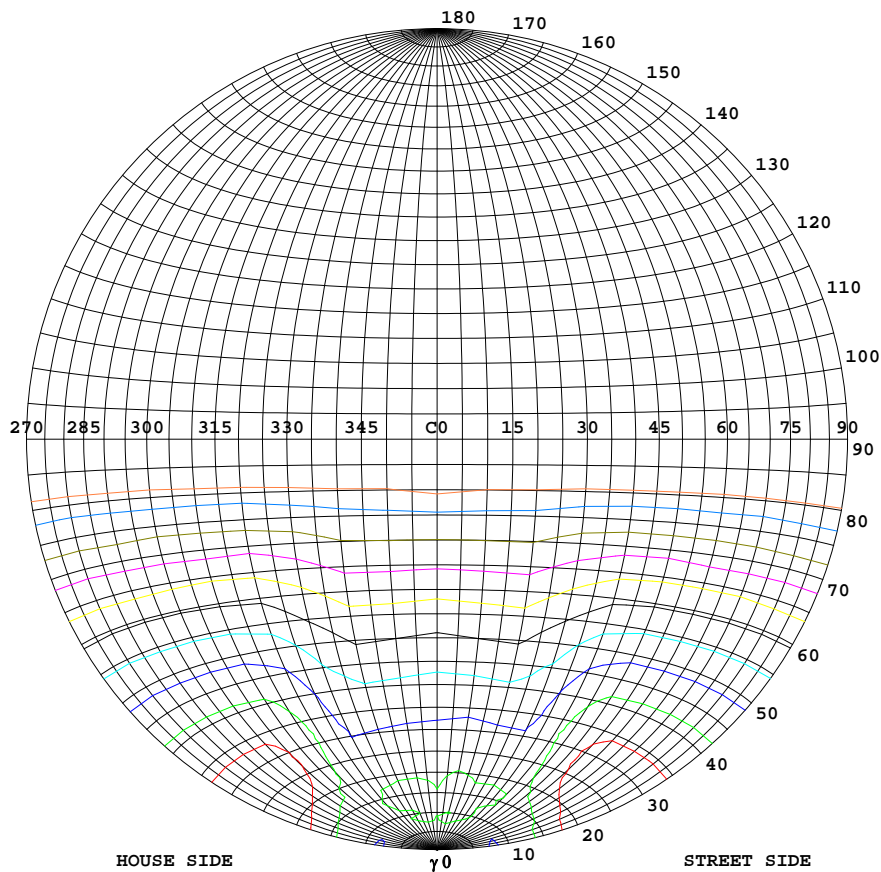
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:



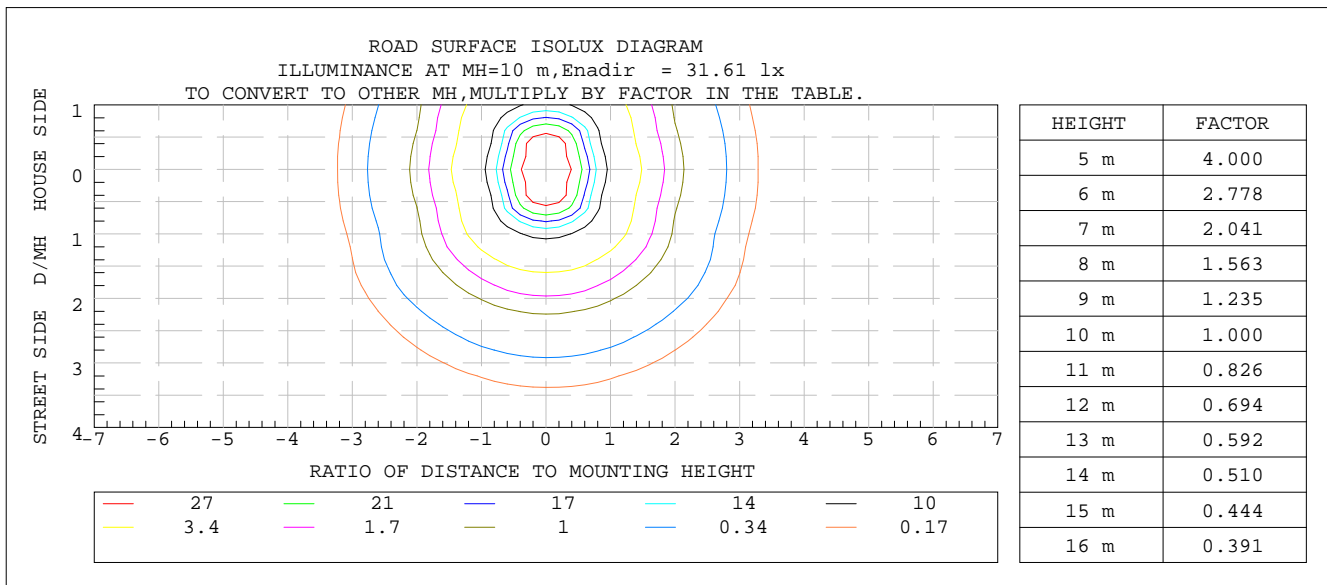
Classification:

IES:Type VS - Very Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:27.53cd/klm
 Max.At90:7.119cd/klm
 Max.80-90:27.53cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4302
90%	3872
80%	3442
70%	3011
60%	2581
50%	2151
40%	1721
30%	1291
20%	860
10%	430
5%	215

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:

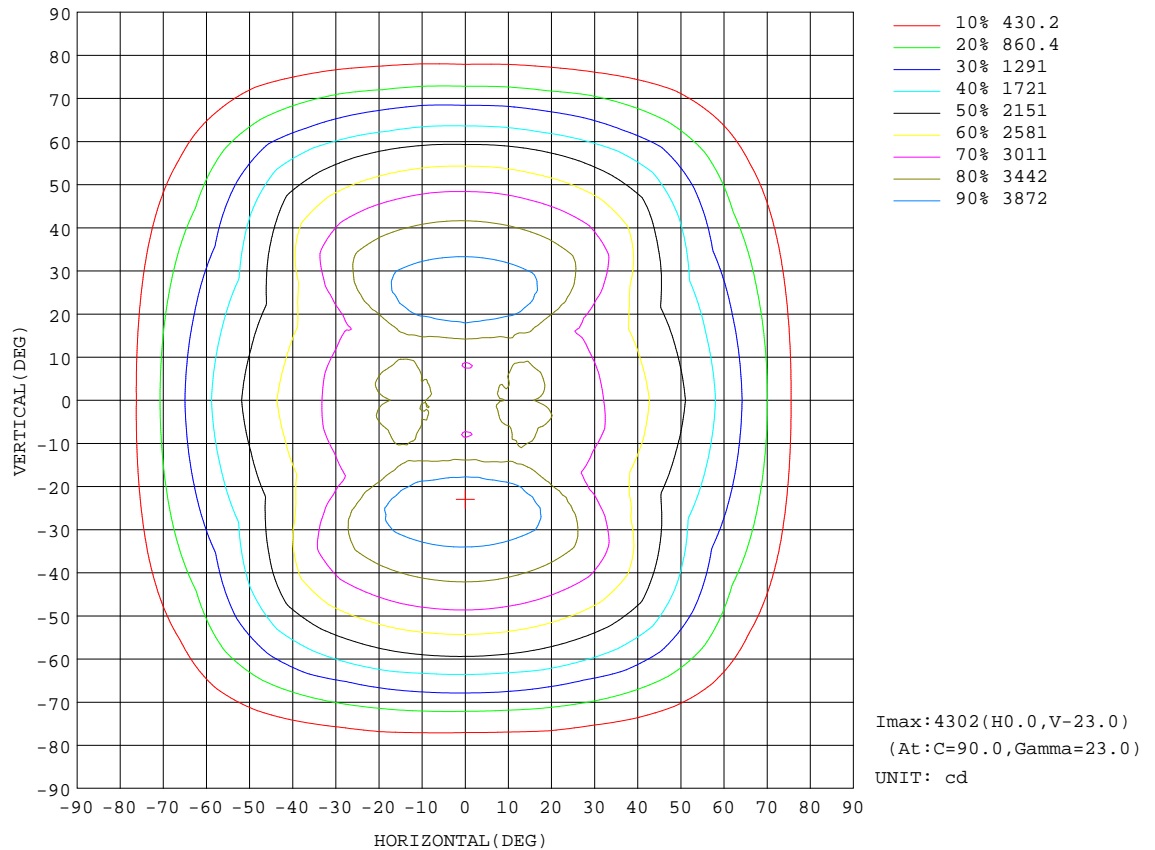
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	3475	3276	3083	3229	3459	3223	3073	3269	0- 10	306.9	306.9	2.62,2.62
20	3350	3408	4134	3439	3383	3407	4098	3389	10- 20	983.7	1291	11,11
30	3081	3579	4053	3624	3118	3564	4015	3557	20- 30	1680	2971	25.4,25.4
40	2703	3393	3566	3444	2747	3395	3532	3374	30- 40	2124	5095	43.5,43.5
50	2210	2847	2914	2893	2255	2878	2899	2836	40- 50	2262	7357	62.9,62.9
60	1589	2074	2099	2123	1641	2130	2068	2084	50- 60	2053	9409	80.4,80.4
70	867.3	1119	1097	1171	919.3	1193	1151	1144	60- 70	1478	10888	93.1,93.1
80	171.7	244.4	232.6	277.7	206.3	311.1	284.4	279.3	70- 80	671.0	11559	98.8,98.8
90	3.927	29.03	8.622	28.46	4.830	28.06	9.075	27.78	80- 90	101.4	11660	99.7,99.7
100	6.382	29.19	14.24	28.63	6.875	29.08	14.95	28.98	90-100	37.50	11698	100,100
110	0	0	0	0	0	0	0	0	100-110	1.801	11700	100,100
120	0	0	0	0	0	0	0	0	110-120	0	11700	100,100
130	0	0	0	0	0	0	0	0	120-130	0	11700	100,100
140	0	0	0	0	0	0	0	0	130-140	0	11700	100,100
150	0	0	0	0	0	0	0	0	140-150	0	11700	100,100
160	0	0	0	0	0	0	0	0	150-160	0	11700	100,100
170	0	0	0	0	0	0	0	0	160-170	0	11700	100,100
180	0	0	0	0	0	0	0	0	170-180	0	11700	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

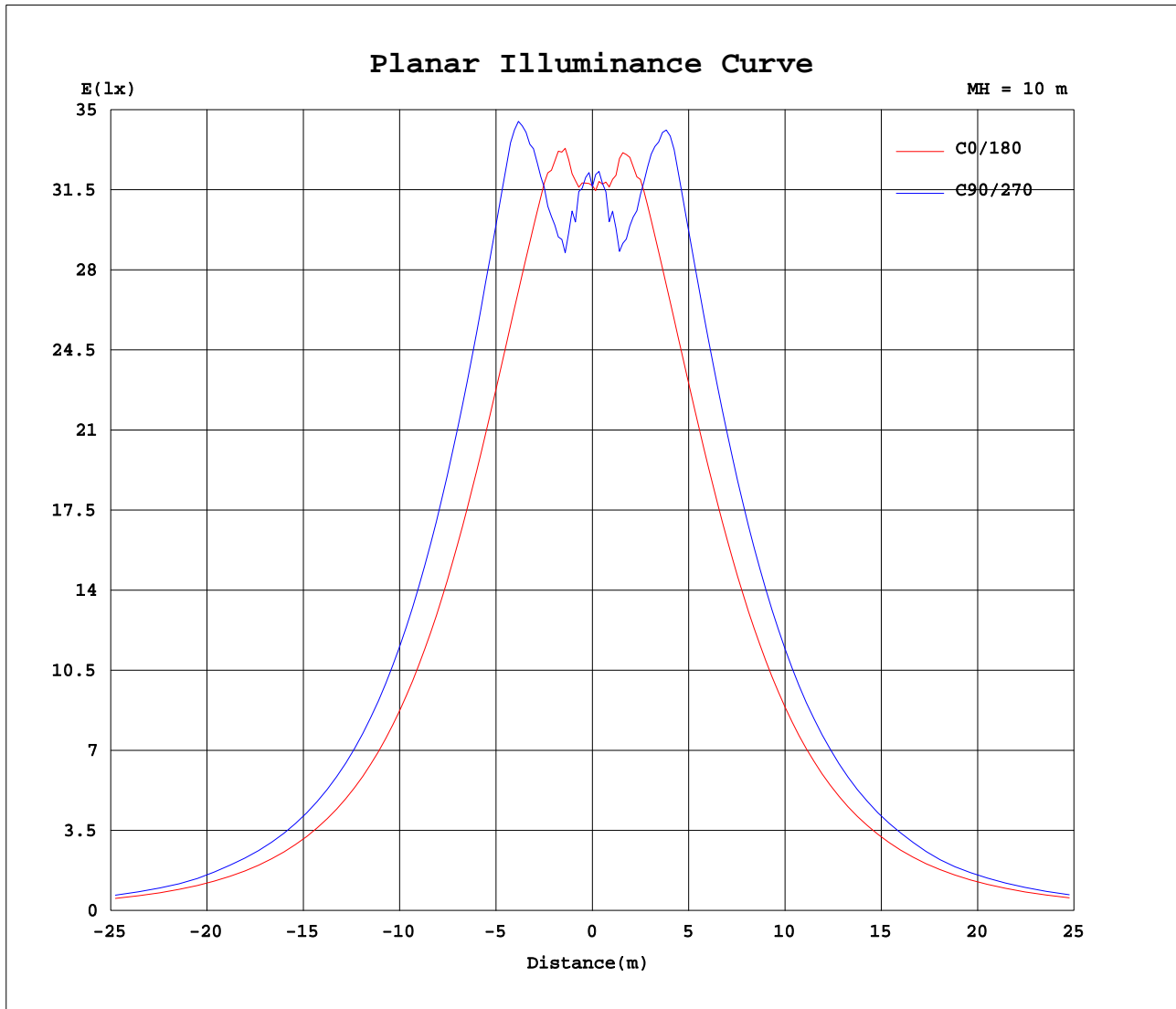
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:



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



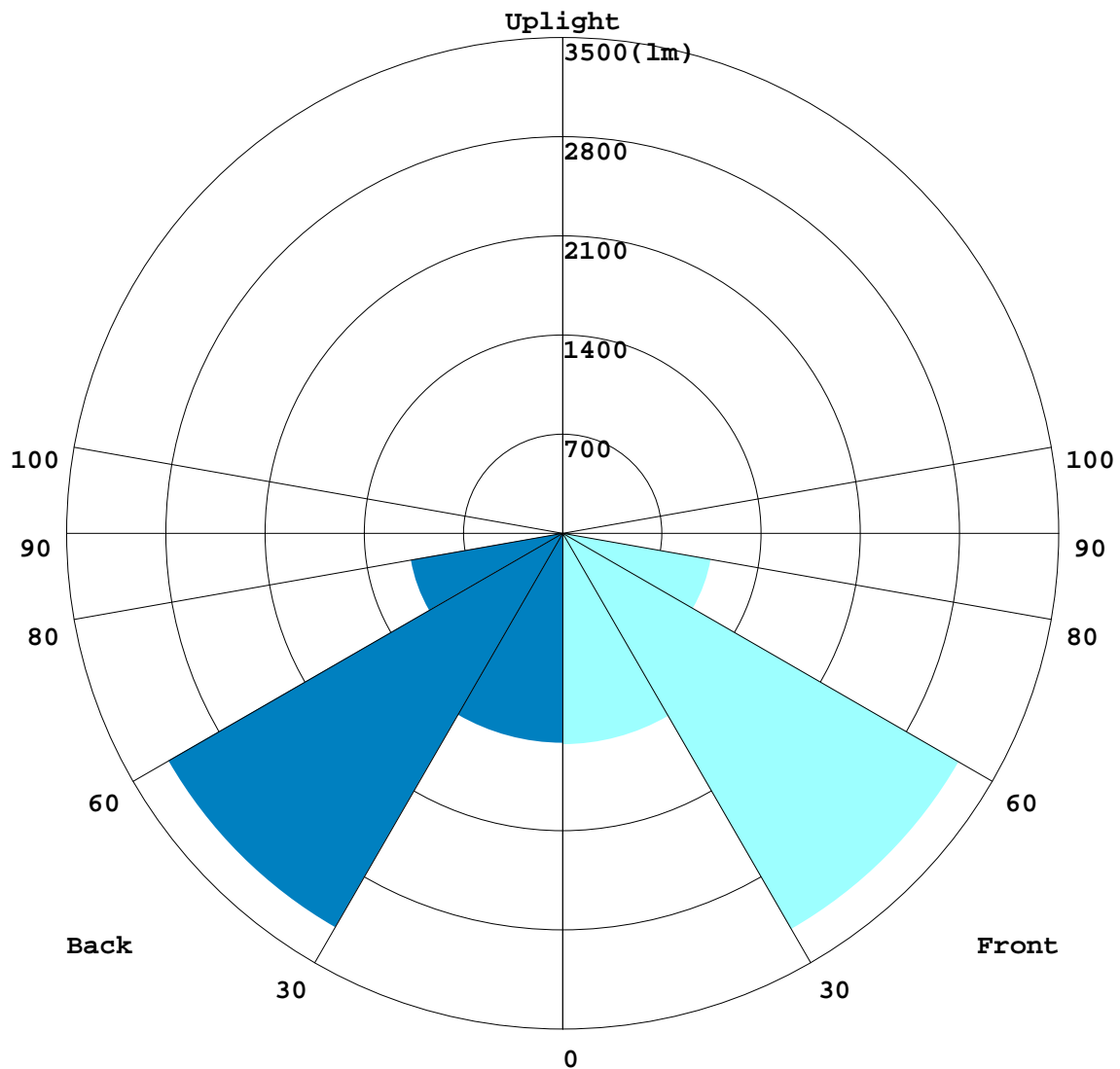
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017.10.31

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)	1490	12.7
FM - Front-Medium(30-60)	3227.2	27.6
FH - Front-High(60-80)	1061.1	9.1
FVH - Front-Very High(80-90)	47.114	0.4
Total Forward Light	5845.1	50.0

BL - Back-Low(0-30)	1480.6	12.7
BM - Back-Medium(30-60)	3211.7	27.5
BH - Back-High(60-80)	1088.4	9.3
BVH - Back-Very High(80-90)	54.246	0.5
Total Back Light	5854.5	50.0

UL - Uplight-Low(90-100)	37.497	0.3
UH - Uplight-High(100-180)	1.8007	0.0
Total Up Light	39.298	0.3

BUG(Back,Up,Glare) Rating	B3-U2-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	5835	19.492	5854.5
Street Side	5825.3	19.806	5845.1

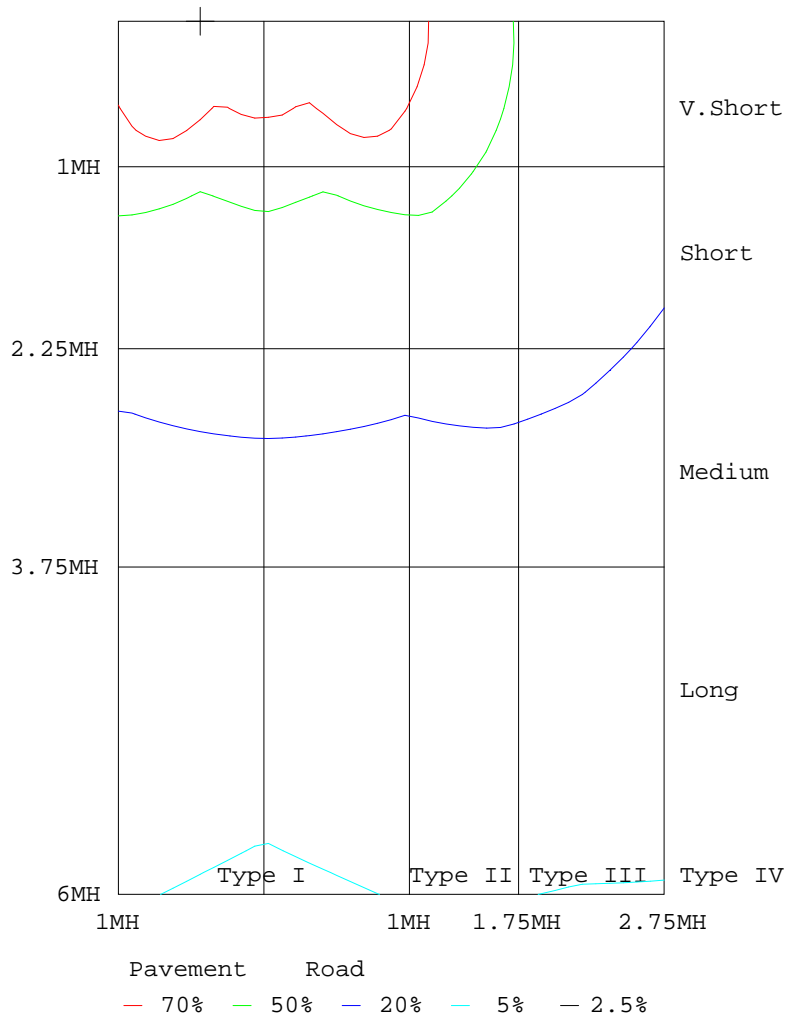
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.10.31

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	3169	3166	3162	3161	3162	3161	3163	3161	3163	3164	3159	3164	3157	3169	3165	3175	3183	3184	3169
5	3227	3312	3248	3245	3217	3177	3189	3090	3079	3044	3030	3129	3166	3135	3220	3221	3192	3307	3199
10	3475	3433	3479	3454	3331	3221	3170	3134	3087	3083	3058	3095	3122	3147	3311	3430	3472	3413	3459
15	3460	3576	3542	3473	3432	3342	3338	3416	3526	3559	3521	3458	3335	3325	3430	3493	3546	3592	3490
20	3350	3470	3380	3377	3335	3481	3688	3919	4079	4134	4086	3920	3749	3504	3375	3402	3407	3506	3383
25	3226	3267	3240	3214	3319	3651	4034	4201	4235	4241	4240	4220	4064	3750	3353	3245	3274	3295	3262
30	3081	3148	3083	3025	3361	3798	4016	4046	4049	4053	4056	4060	4037	3841	3408	3078	3124	3177	3118
35	2906	2918	2873	2889	3333	3721	3817	3821	3825	3826	3831	3834	3837	3762	3399	2963	2900	2942	2946
40	2703	2688	2632	2778	3257	3529	3552	3559	3563	3566	3567	3572	3576	3559	3328	2835	2671	2717	2747
45	2471	2423	2400	2620	3054	3244	3247	3254	3259	3263	3264	3272	3277	3285	3120	2667	2422	2458	2516
50	2210	2148	2102	2403	2791	2903	2905	2908	2908	2914	2917	2932	2937	2946	2839	2470	2166	2192	2255
55	1915	1861	1817	2122	2436	2520	2520	2521	2521	2525	2533	2547	2551	2567	2490	2174	1875	1908	1967
60	1589	1546	1511	1792	2053	2095	2088	2095	2096	2099	2109	2121	2124	2140	2106	1864	1575	1597	1641
65	1231	1206	1181	1422	1600	1637	1624	1591	1563	1558	1574	1622	1658	1671	1653	1493	1243	1259	1290
70	867	857	847	1015	1128	1110	1095	1092	1091	1097	1104	1117	1122	1163	1179	1083	899	907	919
75	479	510	509	614	643	651	616	620	617	616	625	636	639	689	689	673	568	564	537
80	172	218	220	246	241	248	245	237	230	233	236	256	265	286	270	281	256	262	206
85	14.9	89.4	84.2	68.0	51.7	44.9	40.1	40.5	37.7	37.4	39.1	45.0	46.9	54.4	62.4	78.6	91.6	99.3	28.9
90	3.93	83.3	75.2	52.8	34.3	23.8	17.9	13.9	10.8	8.62	10.7	13.8	17.7	23.4	33.5	50.6	70.6	79.4	4.83
95	4.97	81.6	72.3	50.9	34.1	24.9	19.6	15.9	12.9	11.2	12.8	15.7	19.4	24.5	33.4	48.9	68.2	78.2	5.42
100	6.38	73.0	64.2	46.3	32.8	25.6	21.2	18.1	15.3	14.2	15.2	17.9	21.0	25.2	32.1	44.4	60.3	69.5	6.88
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(DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	3166	3162	3161	3162	3161	3163	3161	3163	3164	3159	3164	3157	3169	3165	3175	3183	3184		
5	3317	3281	3249	3238	3109	3169	3126	3083	3045	3086	3111	3183	3159	3215	3250	3279	3290		
10	3549	3476	3435	3288	3158	3104	3091	3063	3073	3065	3129	3134	3199	3338	3410	3409	3472		
15	3587	3532	3511	3414	3313	3320	3407	3487	3533	3488	3403	3325	3326	3381	3497	3517	3610		
20	3514	3436	3368	3351	3464	3661	3878	4045	4098	4046	3877	3662	3434	3344	3326	3395	3365		
25	3261	3294	3228	3310	3645	3999	4180	4210	4204	4204	4170	3997	3649	3284	3184	3230	3252		
30	3145	3098	3040	3353	3775	3998	4026	4019	4015	4011	4011	3979	3772	3343	3001	3044	3079		
35	2924	2882	2908	3338	3713	3807	3805	3797	3792	3788	3786	3781	3688	3321	2892	2827	2864		
40	2697	2667	2789	3270	3521	3553	3545	3540	3532	3527	3523	3522	3491	3256	2762	2615	2655		
45	2458	2431	2626	3078	3260	3259	3250	3244	3235	3232	3225	3224	3219	3049	2603	2361	2415		
50	2192	2153	2420	2827	2929	2930	2916	2912	2899	2900	2890	2894	2887	2784	2395	2104	2148		
55	1900	1867	2160	2476	2558	2557	2546	2539	2524	2528	2519	2523	2515	2437	2116	1827	1860		
60	1599	1572	1837	2114	2147	2148	2133	2106	2068	2089	2104	2108	2100	2068	1816	1538	1542		
65	1262	1259	1488	1681	1697	1641	1616	1618	1594	1602	1591	1596	1648	1626	1445	1202	1206		
70	911	914	1082	1208	1178	1175	1167	1172	1151	1156	1144	1148	1140	1147	1041	873	856		
75	562	579	671	733	733	707	691	697	676	686	672	678	692	688	622	538	512		
80	258	263	291	309	314	322	301	297	284	289	287	299	286	273	262	232	224		
85	95.5	90.8	80.2	73.9	67.2	68.3	64.4	63.0	56.9	59.5	59.0	58.8	55.5	60.8	69.1	83.7	90.1		
90	76.7	67.9	48.1	32.5	23.6	18.3	14.6	11.5	9.07	11.2	14.2	17.9	23.2	32.4	48.6	70.6	83.1		
95	75.8	66.1	47.1	32.9	25.0	20.2	16.7	13.7	11.8	13.4	16.4	19.9	24.7	32.8	47.4	68.2	81.4		
100	67.7	58.9	43.3	32.2	26.0	22.1	19.0	16.3	15.0	16.1	18.8	21.9	25.8	32.2	43.9	61.0	72.9		
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: