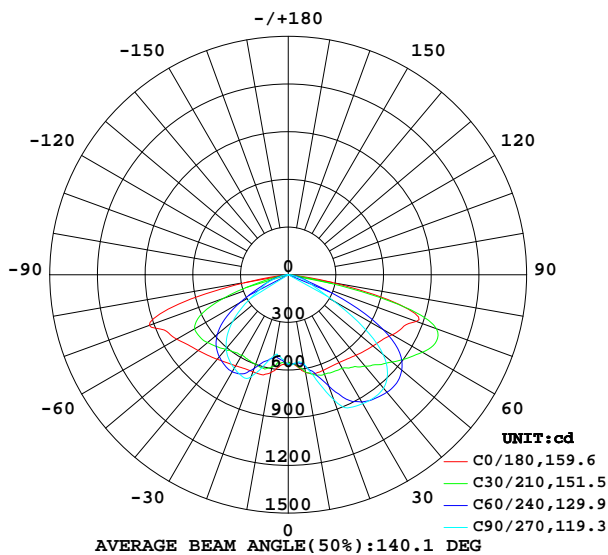
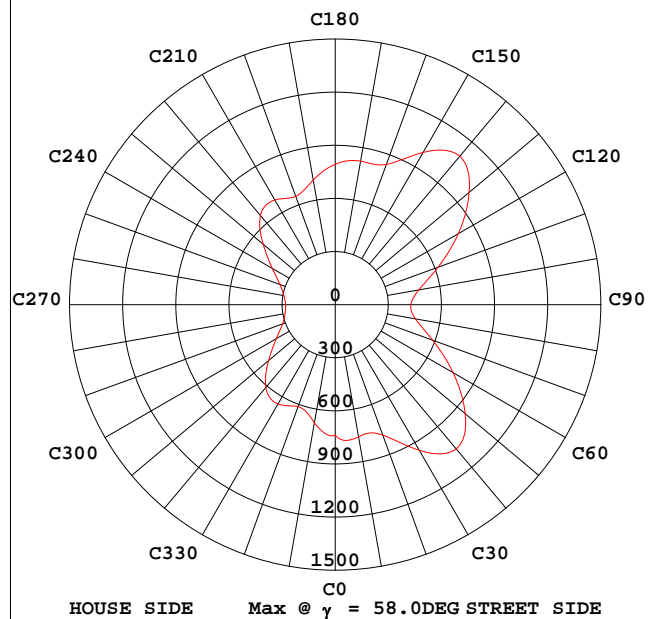


STREETLIGHT PHOTOMETRIC TEST REPORT

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

DATA OF LAMP		PHOTOMETRIC DATA Eff: 115.00 lm/W			
MODEL	LD27LMA 3M 3030	Imax(cd)	1095	η street_up(%)	0.2
NOMINAL POWER(W)	27	LOR(%)	100.0	η street_down(%)	58.1
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	3105	η house_up(%)	0.2
NOMINAL FLUX(lm)	3105	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	21.943

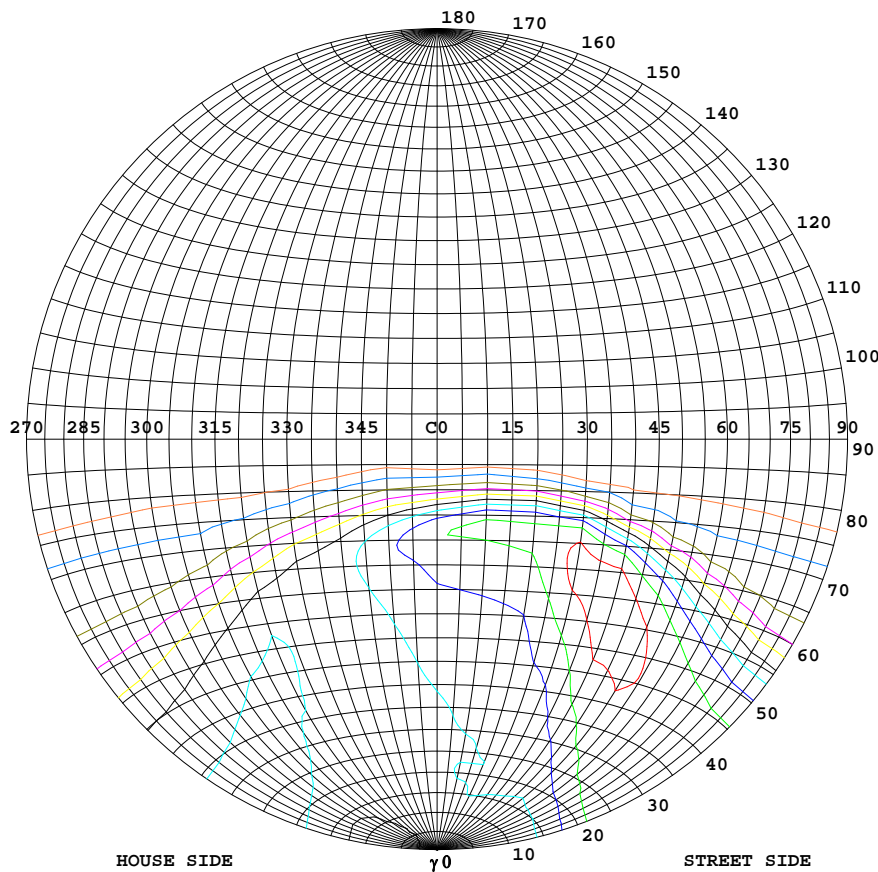
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:



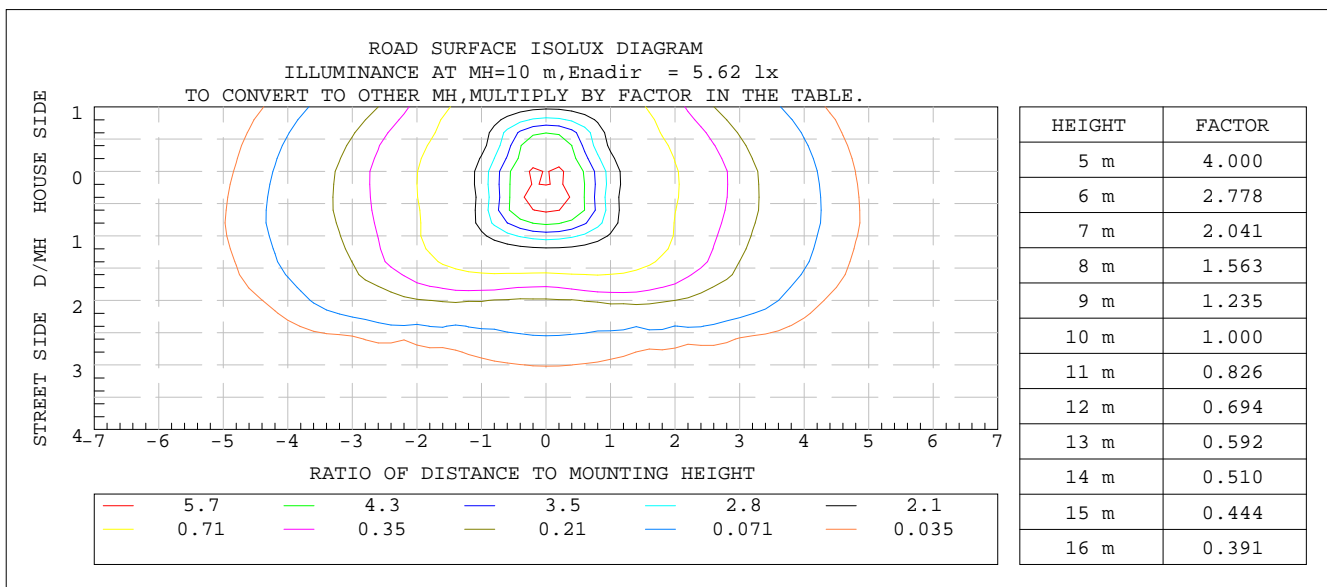
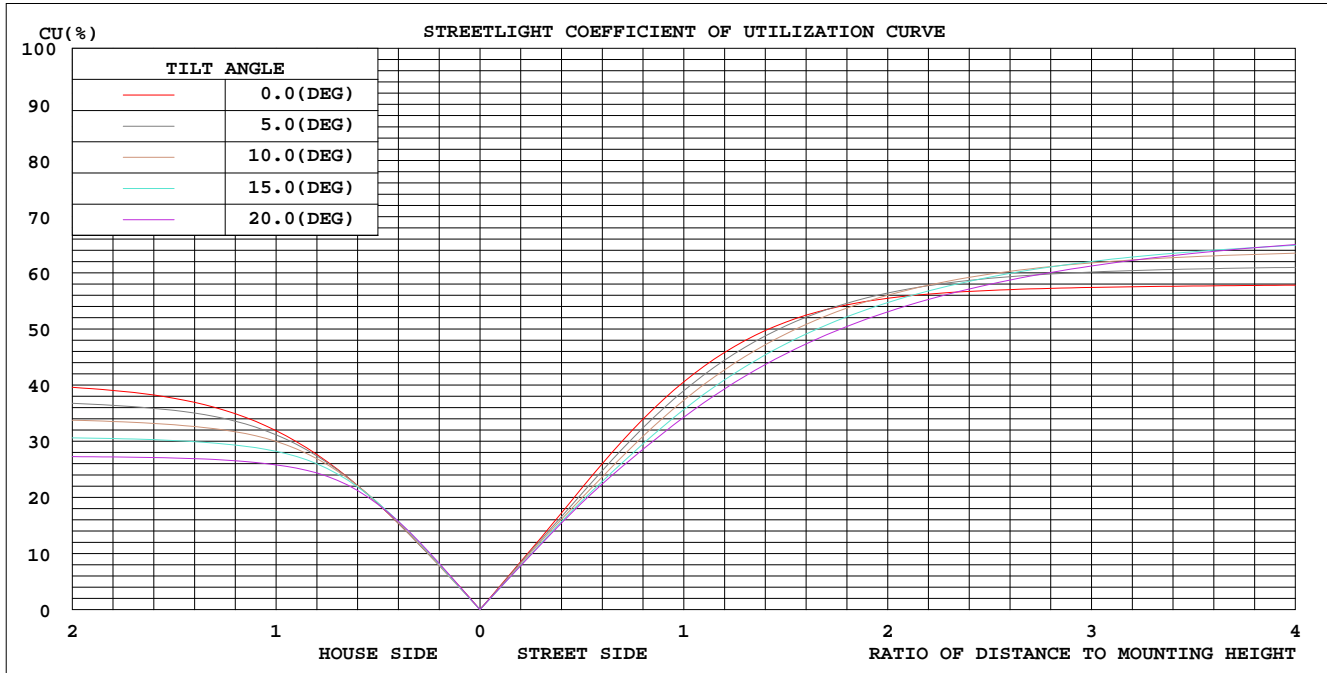
Classification:

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%	1095
90%	985
80%	876
70%	766
60%	657
50%	547
40%	438
30%	328
20%	219
10%	109
5%	55

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:

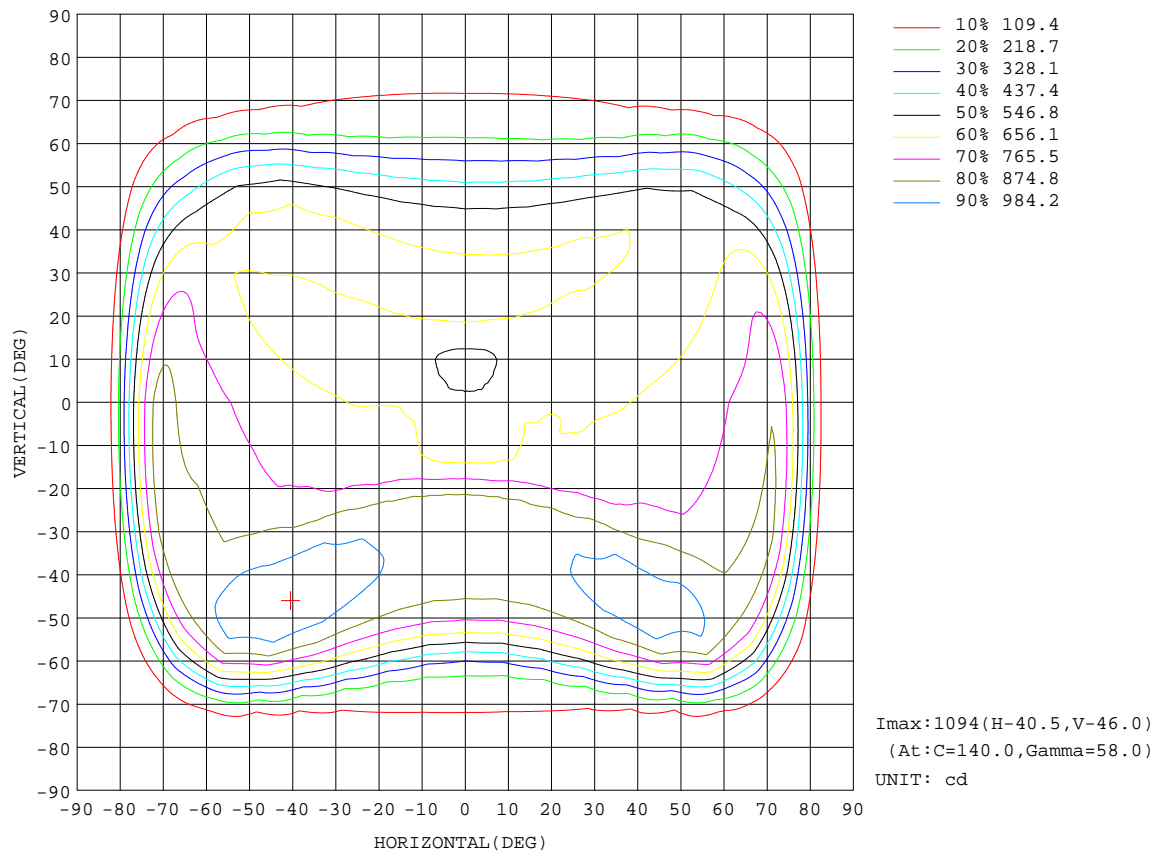
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	623.1	594.3	567.2	601.4	624.4	558.4	519.4	553.8	0- 10	53.86	53.86	1.73,1.73
20	641.2	682.5	835.1	698.6	649.6	590.2	682.5	581.7	10- 20	179.0	232.9	7.5,7.5
30	638.8	812.7	936.9	842.8	661.5	654.3	680.1	642.9	20- 30	328.8	561.7	18.1,18.1
40	661.6	934.5	932.1	964.2	694.5	697.2	607.7	672.8	30- 40	467.1	1029	33.1,33.1
50	696.9	1010	778.9	1038	741.1	684.4	456.0	644.9	40- 50	577.7	1606	51.7,51.7
60	755.2	992.2	327.9	1020	810.8	549.3	241.0	507.1	50- 60	614.4	2221	71.5,71.5
70	858.3	581.3	129.5	608.6	930.2	214.0	129.0	203.6	60- 70	534.3	2755	88.7,88.7
80	280.5	56.41	30.28	59.29	250.3	46.25	30.06	45.13	70- 80	302.1	3057	98.5,98.5
90	2.156	10.24	1.737	9.810	2.459	9.064	1.889	9.243	80- 90	35.29	3092	99.6,99.6
100	3.202	8.568	2.760	7.994	3.449	8.692	3.411	9.073	90-100	11.96	3104	100,100
110	0	0	0	0	0	0	0	0	100-110	0.5194	3105	100,100
120	0	0	0	0	0	0	0	0	110-120	0	3105	100,100
130	0	0	0	0	0	0	0	0	120-130	0	3105	100,100
140	0	0	0	0	0	0	0	0	130-140	0	3105	100,100
150	0	0	0	0	0	0	0	0	140-150	0	3105	100,100
160	0	0	0	0	0	0	0	0	150-160	0	3105	100,100
170	0	0	0	0	0	0	0	0	160-170	0	3105	100,100
180	0	0	0	0	0	0	0	0	170-180	0	3105	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

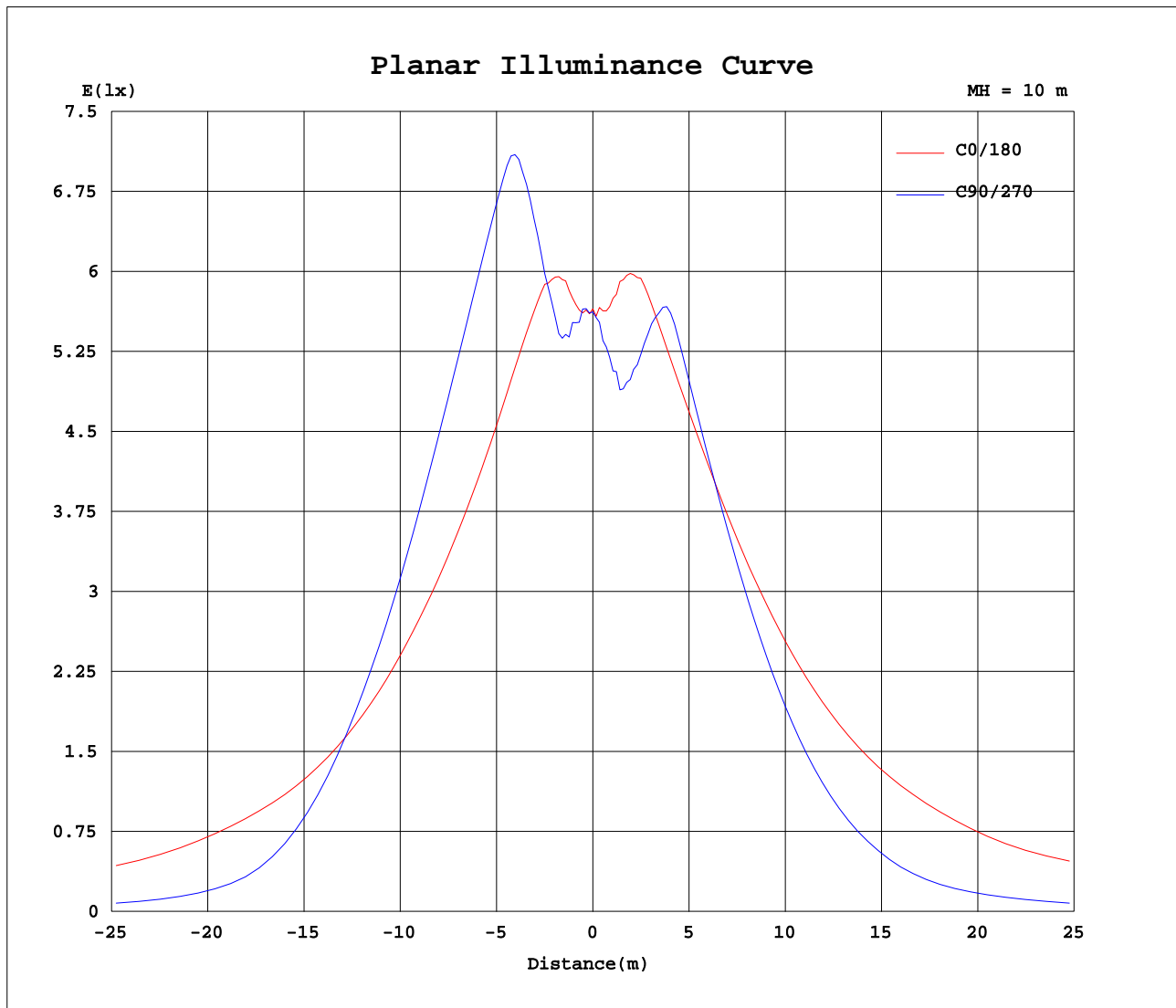
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:



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



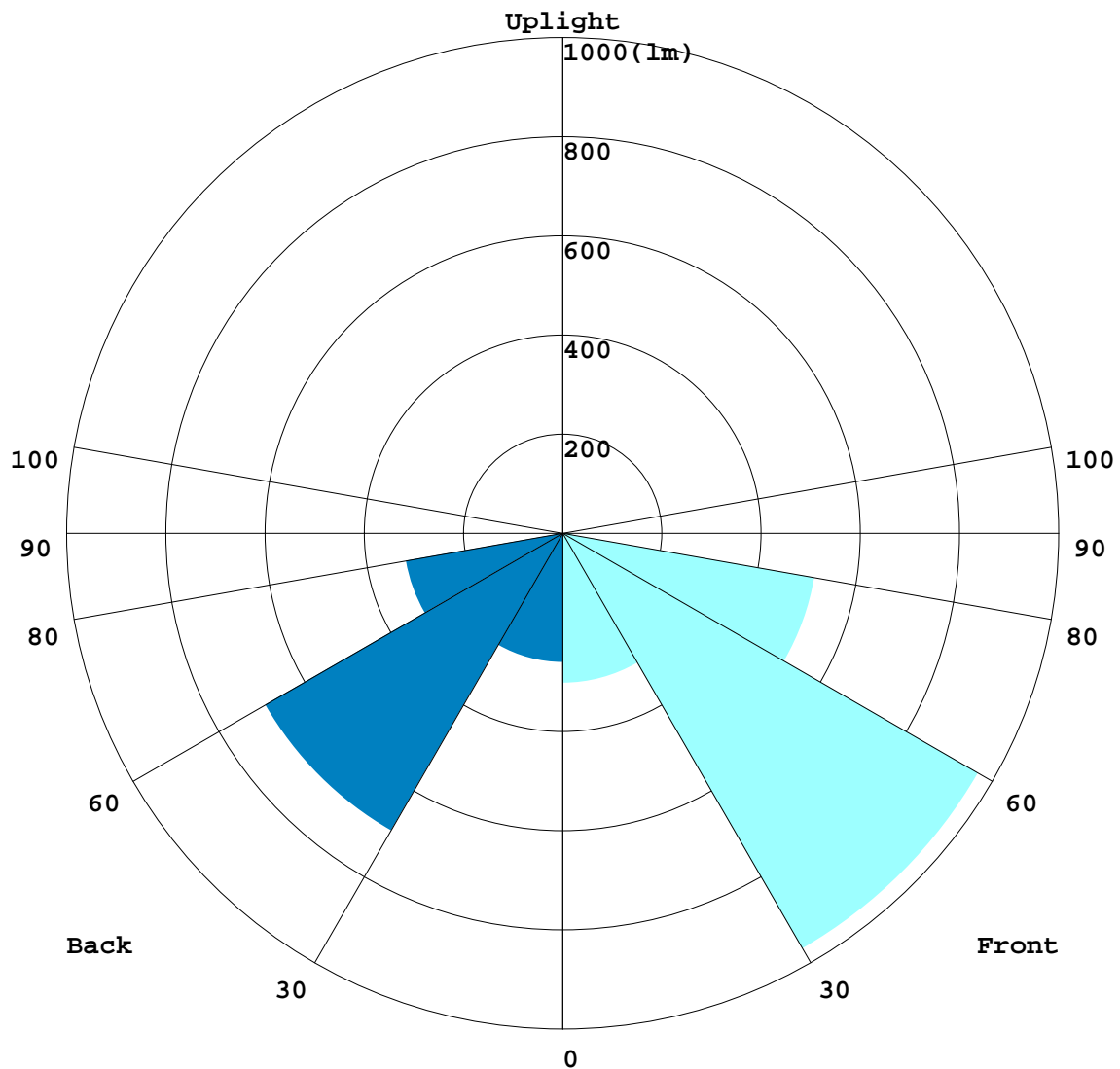
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017.10.31

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)	301.68	9.7
FM - Front-Medium(30-60)	966.94	31.1
FH - Front-High(60-80)	515.51	16.6
FVH - Front-Very High(80-90)	20.113	0.6
Total Forward Light	1810.7	58.3

BL - Back-Low(0-30)	259.99	8.4
BM - Back-Medium(30-60)	692.18	22.3
BH - Back-High(60-80)	320.89	10.3
BVH - Back-Very High(80-90)	15.174	0.5
Total Back Light	1294.3	41.7

UL - Uplight-Low(90-100)	11.956	0.4
UH - Uplight-High(100-180)	0.5194	0.0
Total Up Light	12.475	0.4

BUG(Back,Up,Glare) Rating	B1-U2-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1288.2	6.0645	1294.3
Street Side	1804.2	6.4104	1810.7

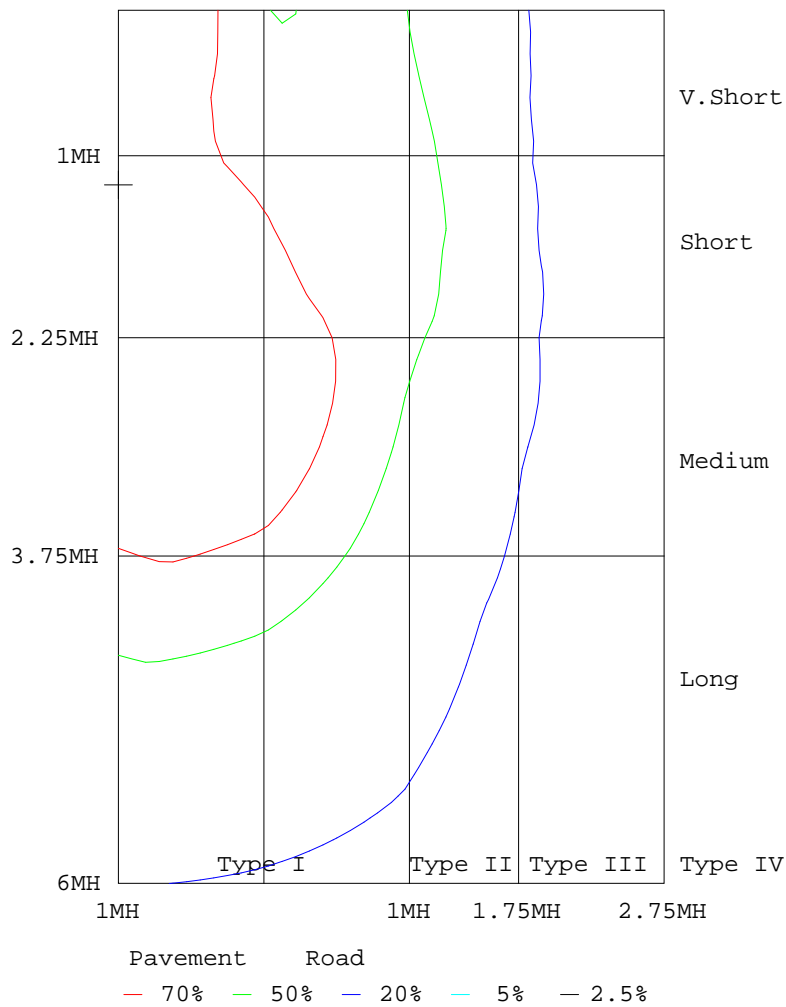
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.10.31

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	565	566	565	565	565	564	565	563	565	562	564	561	563	561	562	560	560	559	565
5	576	574	577	570	571	564	564	559	563	558	565	561	566	567	573	572	576	576	574
10	623	629	626	622	601	587	578	574	568	567	572	577	582	593	610	631	636	635	624
15	644	645	659	653	651	636	639	657	677	684	679	660	646	648	665	672	677	660	651
20	641	660	658	666	671	694	745	787	827	835	832	796	756	708	689	688	680	680	650
25	637	650	661	674	697	780	863	904	918	922	923	914	878	800	723	696	688	672	652
30	639	660	670	681	759	866	925	933	935	937	939	943	942	895	791	708	705	692	661
35	648	672	686	710	830	932	951	946	942	943	947	956	969	956	863	743	720	704	676
40	662	685	697	750	899	970	965	948	934	932	939	959	984	996	933	791	736	721	695
45	679	701	717	801	952	999	964	922	890	883	896	935	985	1024	986	844	762	741	716
50	697	716	737	854	1010	1011	932	853	793	779	804	871	956	1036	1041	902	781	766	741
55	718	739	765	916	1049	990	856	714	607	580	624	740	885	1018	1081	957	815	799	769
60	755	778	802	975	1065	919	689	488	359	328	378	521	728	950	1090	1020	860	846	811
65	791	827	848	1020	1004	732	430	244	188	188	195	268	469	770	1021	1058	901	881	844
70	858	875	904	992	776	387	170	135	130	129	132	140	187	422	795	1005	949	955	930
75	725	837	817	709	294	116	93.3	85.2	76.3	74.5	77.0	87.1	95.9	128	317	687	779	796	713
80	280	353	318	156	59.9	52.9	44.2	38.1	32.6	30.3	33.1	38.5	45.3	54.6	64.0	151	263	292	250
85	23.5	45.4	37.6	30.2	21.7	16.4	12.0	10.7	8.86	7.92	8.91	10.8	12.3	16.8	21.8	30.3	37.0	38.8	18.5
90	2.16	30.9	27.9	20.0	12.5	7.93	5.35	3.74	2.55	1.74	2.50	3.65	5.19	7.61	12.0	19.2	26.7	29.8	2.46
95	2.64	28.3	25.2	18.1	11.8	7.88	5.58	4.05	2.87	2.21	2.78	3.90	5.33	7.48	11.1	17.1	23.6	26.7	2.87
100	3.20	22.3	19.7	14.3	9.87	7.26	5.56	4.31	3.26	2.76	3.15	4.11	5.25	6.81	9.18	13.1	17.7	20.2	3.45
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	566	565	565	565	564	565	563	565	562	564	561	563	561	562	560	560	559		
5	572	563	560	545	542	538	529	527	525	527	527	535	542	542	560	568	570		
10	614	600	588	570	547	530	525	517	519	514	522	528	542	566	580	597	611		
15	650	628	610	585	567	564	571	583	591	583	570	559	562	577	598	615	635		
20	635	623	599	586	594	627	653	673	683	671	652	624	591	573	588	610	618		
25	636	615	592	594	643	689	705	704	701	701	699	684	638	582	574	596	623		
30	640	610	584	623	685	705	696	685	680	681	687	692	674	611	569	588	617		
35	641	605	594	657	705	696	674	658	651	653	662	679	686	644	576	585	620		
40	650	608	615	689	705	675	642	619	608	612	628	654	679	667	593	584	629		
45	663	611	639	702	693	641	592	559	544	551	575	615	661	675	617	586	636		
50	678	623	664	709	660	583	516	474	456	466	498	554	622	668	633	592	648		
55	699	639	680	687	594	489	410	366	349	358	391	461	553	644	642	605	664		
60	727	660	680	623	476	352	278	251	241	246	266	328	438	576	641	619	690		
65	769	658	613	475	302	216	182	178	177	177	178	203	278	440	581	629	726		
70	758	568	436	263	165	137	133	131	129	130	131	134	156	251	430	566	742		
75	538	334	192	116	90.6	86.6	78.1	72.0	67.8	71.0	76.2	84.8	88.8	115	198	355	548		
80	199	100	59.4	48.1	44.4	41.0	36.0	33.2	30.1	32.5	35.1	39.6	43.2	47.1	60.6	120	224		
85	38.2	29.1	21.7	17.2	14.3	12.0	10.7	9.70	8.25	9.47	10.5	11.7	13.9	17.2	21.6	30.4	41.8		
90	26.7	22.2	15.7	10.6	7.51	5.45	3.92	2.75	1.89	2.69	3.91	5.50	7.62	10.9	16.2	23.3	28.5		
95	24.4	20.6	14.9	10.5	7.87	6.00	4.48	3.28	2.56	3.28	4.55	6.14	8.07	10.9	15.6	21.9	26.5		
100	19.2	16.6	12.6	9.64	7.74	6.31	5.03	3.94	3.41	3.99	5.18	6.54	8.05	10.1	13.4	18.1	21.5		
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		
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: