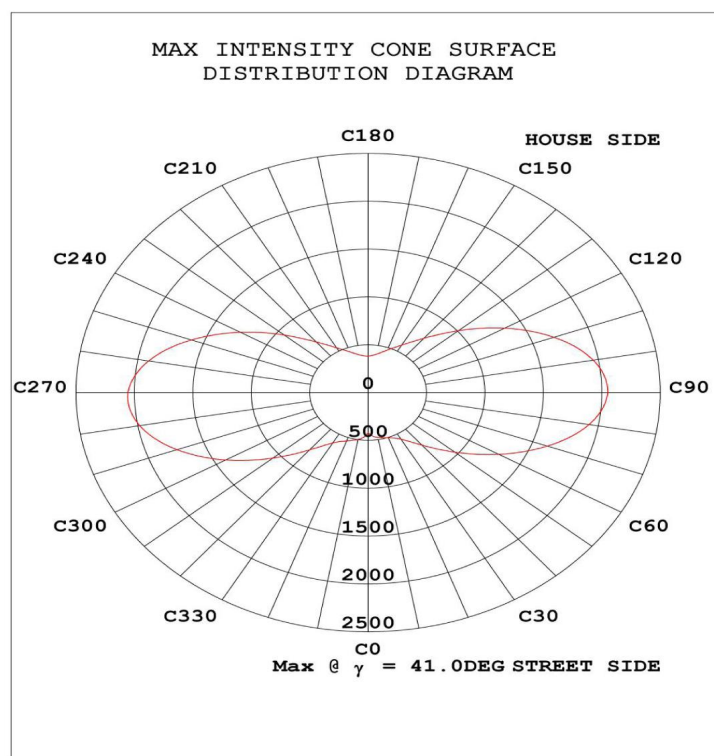
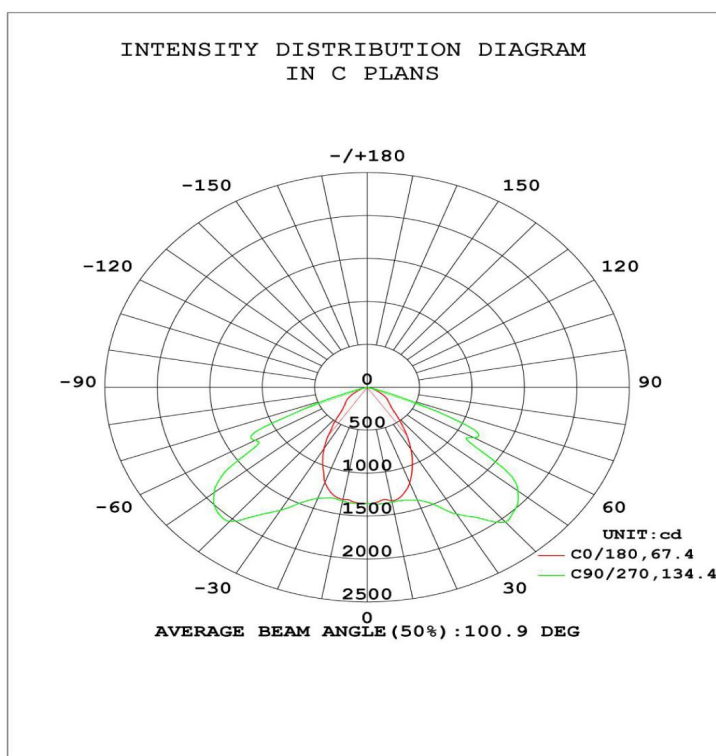


**STREETLIGHT PHOTOMETRIC TEST REPORT**

Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:3659.6x1 lm		
NAME: Integrated Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: MAGNIZON POWER SYSTEMS FZE	SUR.:--	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	MP-SIL040	I <sub>max</sub> (cd)	2056	η street_up (%)	0.1
NOMINAL POWER (W)	40	LOR (%)	100.0	η street_down (%)	61.4
RATED VOLTAGE (V)	12	TOTAL FLUX (lm)	3660	η house_up (%)	0.1
NOMINAL FLUX (lm)	3659.6	MAXIMUM @ (C, γ )	270,41.0	η house_down (%)	38.5
LAMPS INSIDE	1	η up (%)	0.1	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)		η down (%)	99.9	SLI	15.489

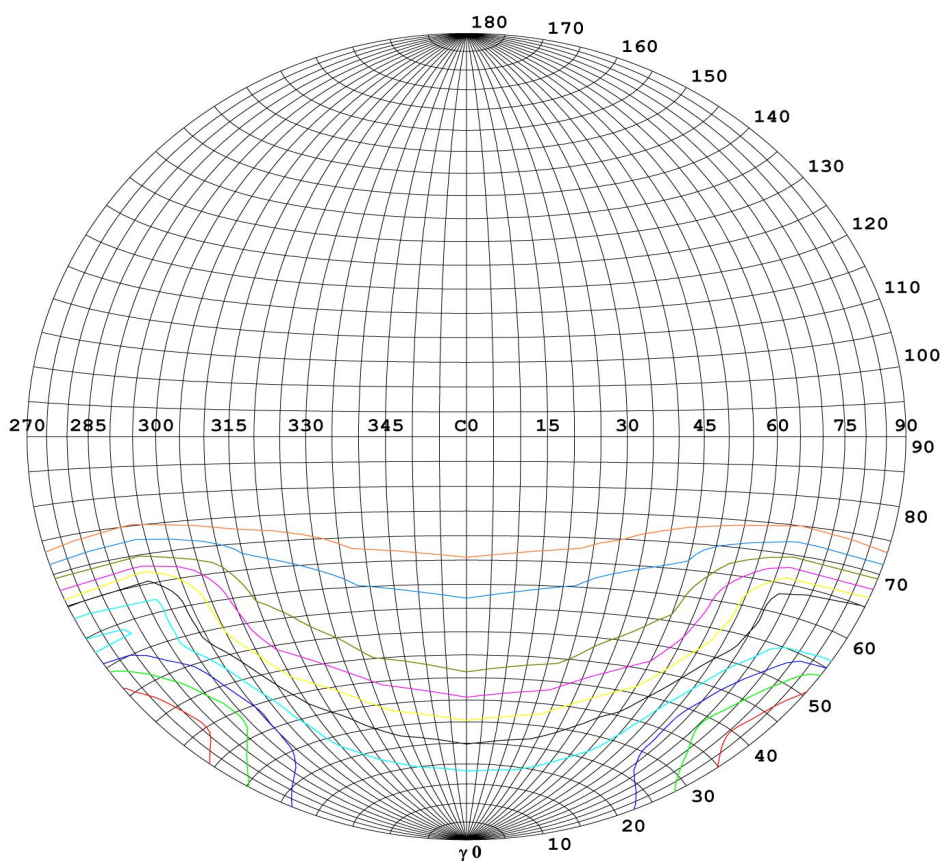


C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators: Teddy  
Test Date: 2015-10-26

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity: 65%  
Test Distance: 26.000m [K=1.2918]  
Remarks:

### STREETLIGHT ISOCANDELA DIAGRAM

Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:3659.6x1 lm		
NAME: Integrated Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: MAGNIZON POWER SYSTEMS FZE	SUR.:--	Shielding Angle:N/A



**Classification:**

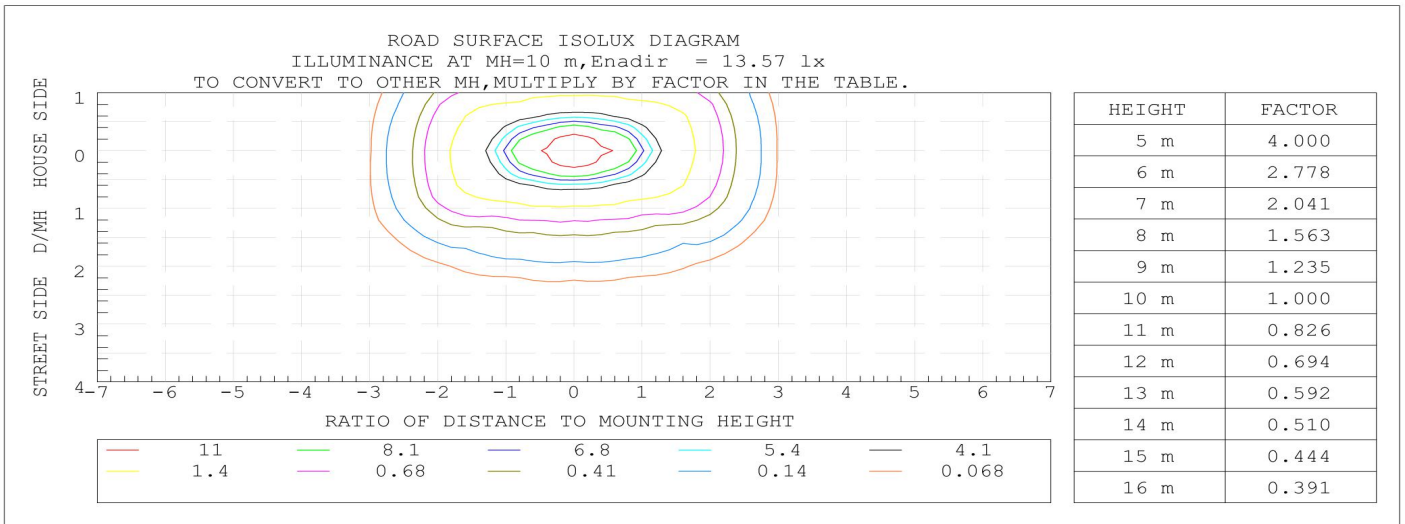
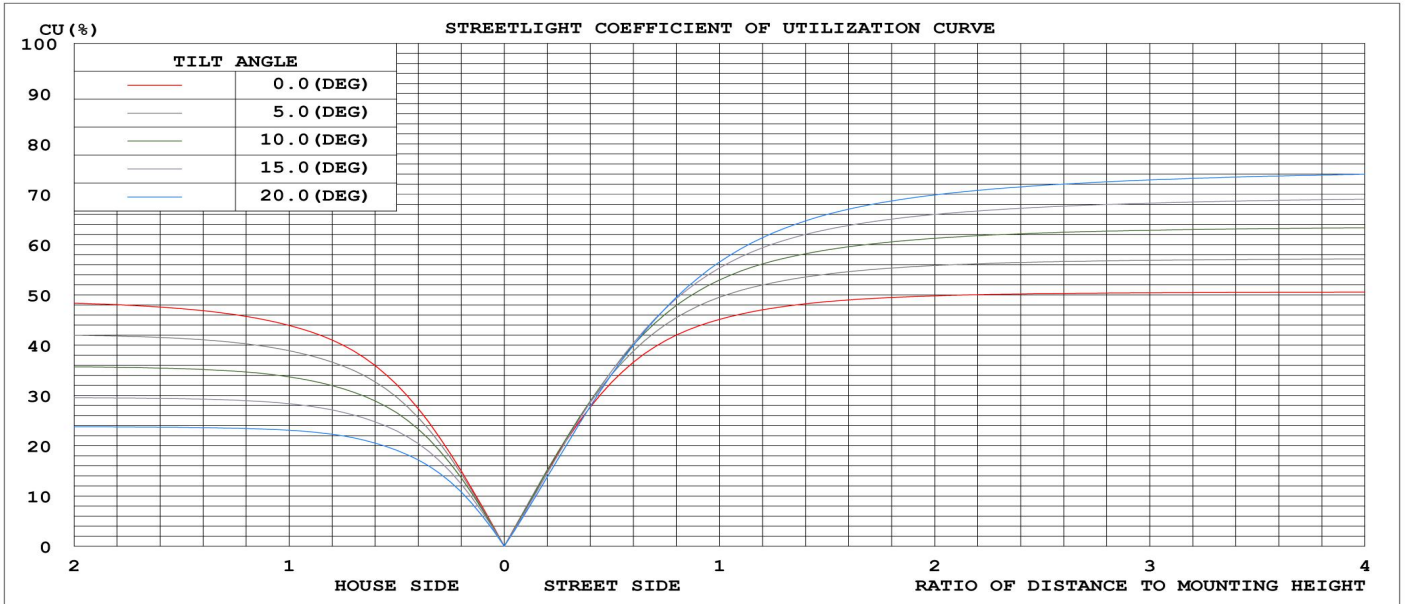
IES:Type I - Very Short  
 CIE:Narrow - Short  
 IES:Cut-off  
 CIE:Full cut-off  
 Max.At80:10.56cd/klm  
 Max.At90:0.6577cd/klm  
 Max.80-90:10.56cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	2056
— 90%	1850
— 80%	1645
— 70%	1439
— 60%	1234
— 50%	1028
— 40%	822
— 30%	617
— 20%	411
— 10%	206
— 5%	103

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:Teddy  
 Test Date:2015-10-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity:65%  
 Test Distance:26.000m [K=1.2918]  
 Remarks:

**COEFFICIENT OF UTILIZATION CURVE  
AND ISOLUX DIAGRAM**



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operator: Teddy  
 Test Date: 2015-10-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity: 65%  
 Test Distance: 26.000m [K=1.2918]  
 Remarks:

**ZONAL FLUX DIAGRAM**

Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:3659.6x1 lm		
NAME :	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: MAGNIZON POWER SYSTEMS FZE	SUR.:--	Shielding Angle:N/A

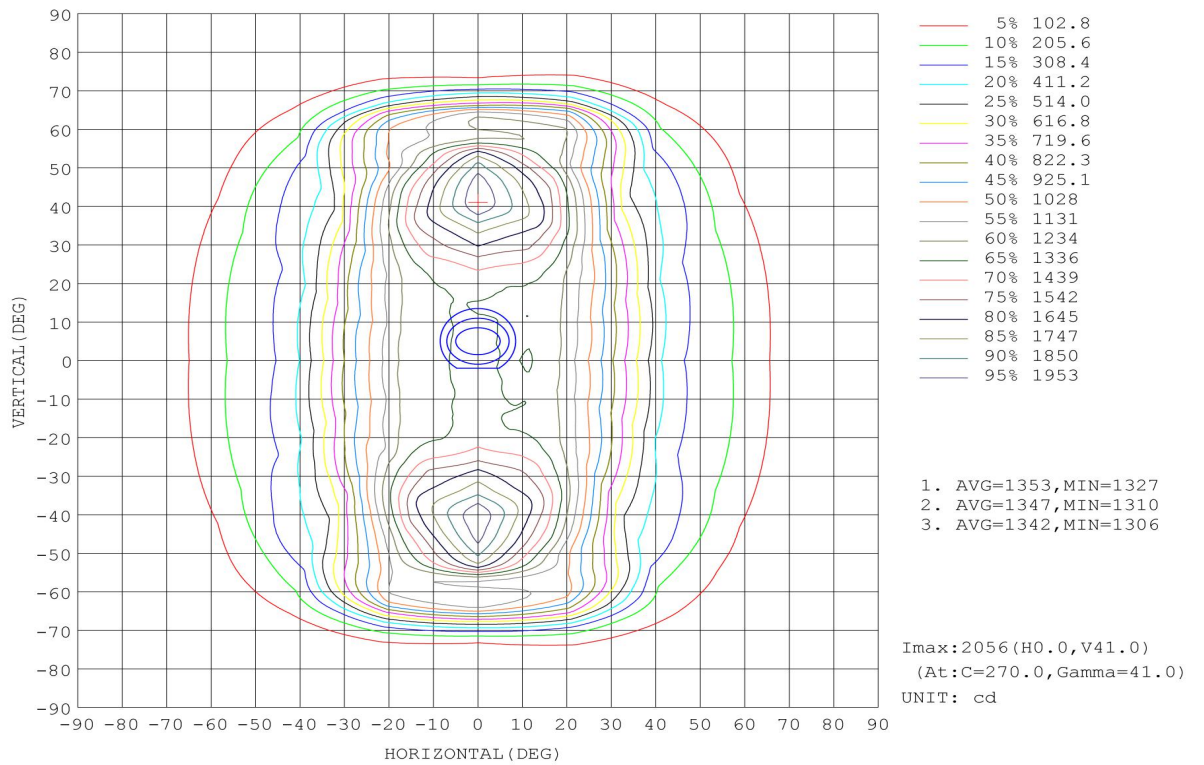
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1344	1317	1359	1313	1325	1322	1347	1305	0- 10	128.1	128.1	3.5,3.5
20	1185	1312	1399	1302	1182	1289	1377	1316	10- 20	372.3	500.4	13.7,13.7
30	835.2	1172	1704	1131	823.2	1125	1656	1199	20- 30	574.8	1075	29.4,29.4
40	453.7	872.4	2048	899.5	413.9	837.0	2040	948.9	30- 40	718.7	1794	49,49
50	266.6	517.0	1875	537.2	269.2	487.6	1900	586.8	40- 50	721.5	2516	68.7,68.7
60	169.5	362.1	1177	392.4	159.4	344.4	1236	389.8	50- 60	613.1	3129	85.5,85.5
70	62.75	150.7	343.6	155.3	60.76	140.7	349.2	167.5	60- 70	438.4	3567	97.5,97.5
80	19.85	22.00	8.195	16.27	27.70	18.40	8.469	17.42	70- 80	81.72	3649	99.7,99.7
90	1.901	2.407	0.0655	1.834	0.0633	0.7420	0.1911	1.259	80- 90	6.294	3655	99.9,99.9
100	0	0.0633	0.0637	0.5069	0.1899	0.3152	0.6370	0.1898	90-100	0.5210	3656	99.9,99.9
110	0	0.0633	0.4452	0.4429	0.1899	0.5104	1.465	0.5694	100-110	0.3652	3656	99.9,99.9
120	0	0.0633	1.083	0.6907	0.2532	0.8856	1.465	0.8225	110-120	0.5483	3656	99.9,99.9
130	0.0615	0.0633	1.401	1.076	0.3797	1.203	1.210	1.013	120-130	0.6861	3657	99.9,99.9
140	0.1266	0.3163	1.528	1.076	0.7582	1.265	1.210	1.266	130-140	0.7341	3658	100,100
150	0.3798	0.4428	1.528	1.201	0.9496	1.265	1.210	1.392	140-150	0.6638	3659	100,100
160	1.015	0.9488	1.465	1.265	1.393	1.265	1.210	1.392	150-160	0.5392	3659	100,100
170	1.203	1.075	1.401	1.329	1.266	1.265	1.210	1.392	160-170	0.3579	3659	100,100
180	1.203	1.202	1.401	1.392	1.203	1.202	1.210	1.392	170-180	0.1231	3660	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:Teddy  
 Test Date:2015-10-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity:65%  
 Test Distance:26.000m [K=1.2918]  
 Remarks:

**ISOCANDELA DIAGRAM**

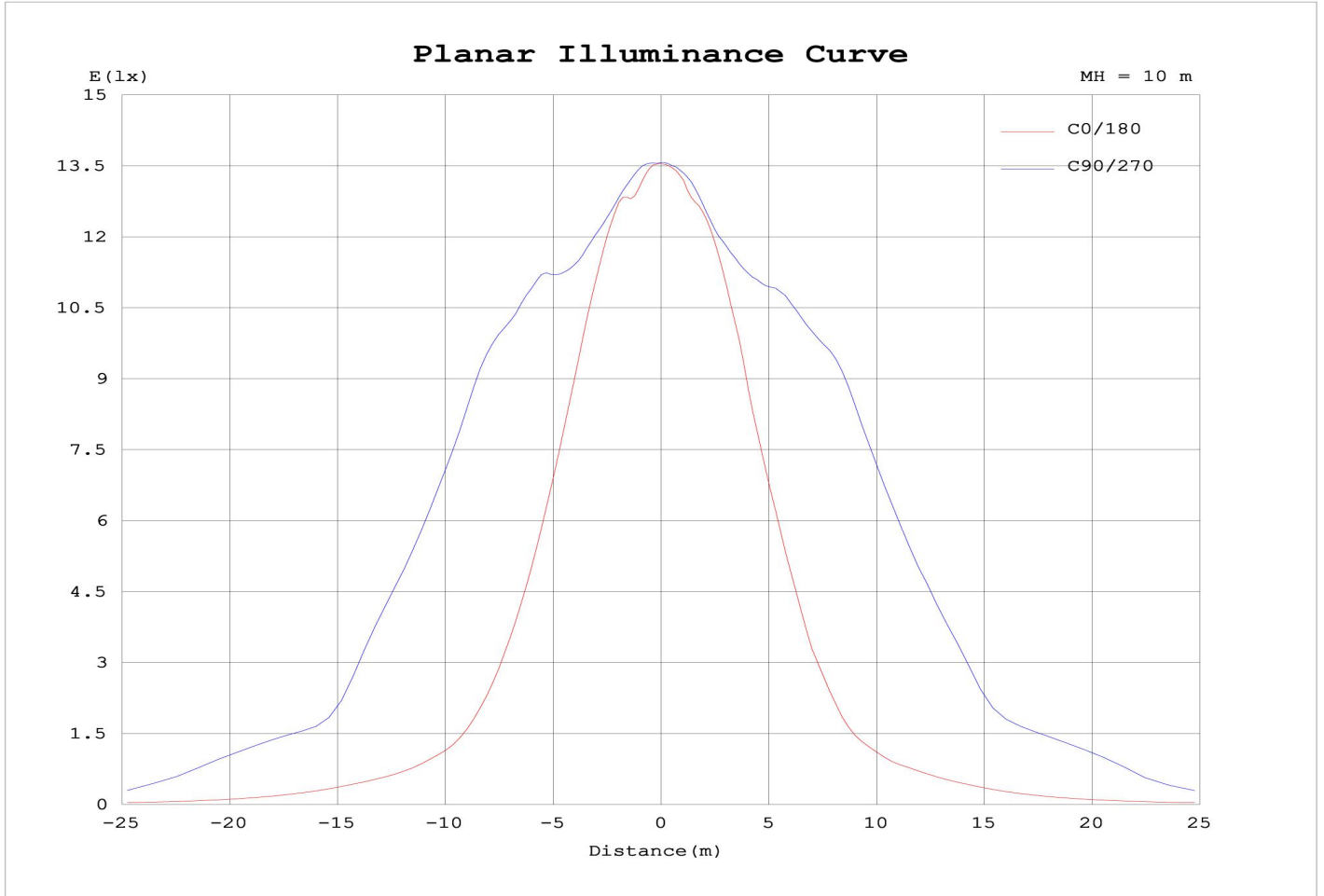
Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:3659.6x1 lm		
NAME: Integrated Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: MAGNIZON POWER SYSTEMS FZE	SUR.:--	Shielding Angle:N/A



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:Teddy  
 Test Date:2015-10-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity:65%  
 Test Distance:26.000m [K=1.2918]  
 Remarks:

**Planar Illuminance Curve**



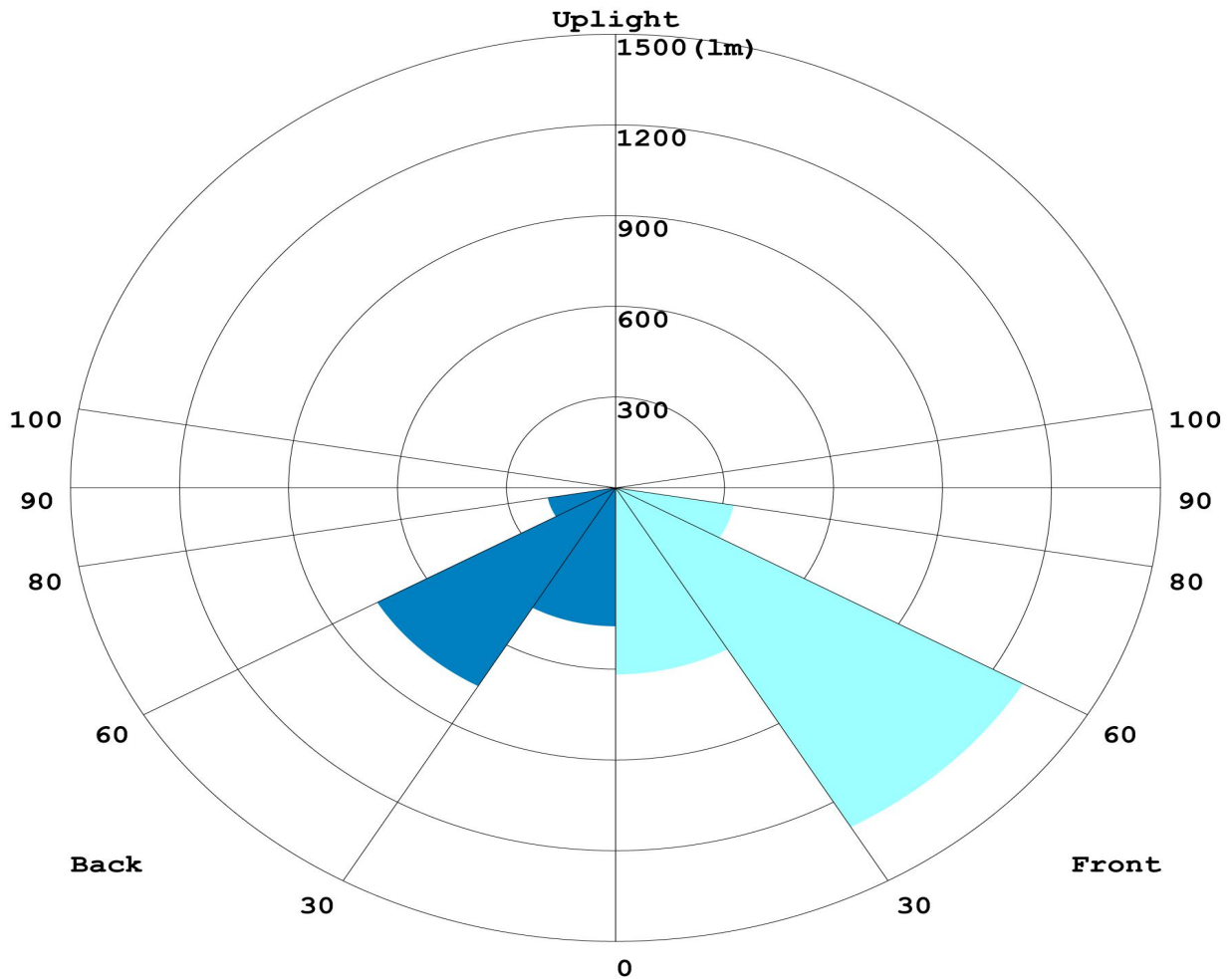
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators: Teddy  
Test Date: 2015-10-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity: 65%  
Test Distance: 26.000m [K=1.2918]  
Remarks:

**LCS REPORT**

Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:3659.6x1 lm		
NAME: Integrated Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: MAGNIZON POWER SYSTEMS FZE	SUR.:--	Shielding Angle:N/A

**LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH**



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:Teddy  
 Test Date:2015-10-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity:65%  
 Test Distance:26.000m [K=1.2918]  
 Remarks:

**BUG REPORT**

Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:3659.6x1 lm		
NAME: Integrated Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: MAGNIZON POWER SYSTEMS FZE	SUR.:--	Shielding Angle:N/A

**IESNA Luminaire Flux Distribution Table:**

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	617.22	16.9
FM - Front-Medium(30-60)	1296	35.4
FH - Front-High(60-80)	330.96	9.0
FVH - Front-Very High(80-90)	3.6151	0.1
<b>Total Forward Light</b>	<b>2250.3</b>	<b>61.5</b>

BL - Back-Low(0-30)	458.06	12.5
BM - Back-Medium(30-60)	757.38	20.7
BH - Back-High(60-80)	189.19	5.2
BVH - Back-Very High(80-90)	2.6792	0.1
<b>Total Back Light</b>	<b>1409.3</b>	<b>38.5</b>

UL - Uplight-Low(90-100)	0.521	0.0
UH - Uplight-High(100-180)	4.0176	0.1
<b>Total Up Light</b>	<b>4.5386</b>	<b>0.1</b>

BUG(Back,Up,Glare) Rating	B1-U1-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1407.3	1.9892	1409.3
Street Side	2247.7	2.5494	2250.3

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:Teddy  
Test Date:2015-10-26

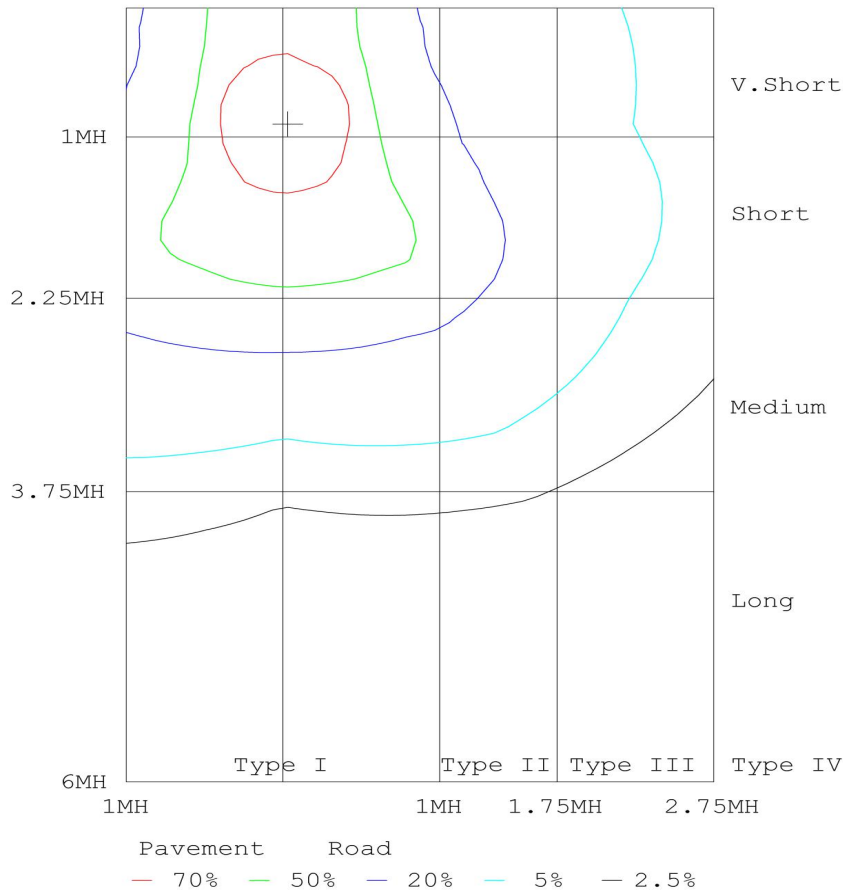
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
Humidity:65%  
Test Distance:26.000m [K=1.2918]  
Remarks:



**ROAD ISOCANDELA REPORT**

Test:U:0V I:0A P:0W PF:0 Freq:0Hz Lamp Flux:3659.6x1 lm		
NAME: Integrated Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: MAGNIZON POWER SYSTEMS FZE	SUR.:--	Shielding Angle:N/A

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:Teddy  
 Test Date:2015-10-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity:65%  
 Test Distance:26.000m [K=1.2918]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:OV I:0A P:0W PF:0 Freq:0Hz Lamp Flux:3659.6x1 lm		
NAME: Integrated Solar Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: MAGNIZON POWER SYSTEMS FZE	SUR.:--	Shielding Angle:N/A

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	1354	1357	1352	1356	1357	1358	1356	1356	1354	1357	1352	1356	1357	1358	1356	1356			
5	1333	1331	1351	1363	1365	1358	1357	1356	1345	1350	1355	1358	1356	1356	1344	1340			
10	1344	1321	1317	1355	1359	1351	1313	1312	1325	1313	1322	1350	1347	1342	1305	1321			
15	1300	1307	1338	1336	1363	1336	1309	1300	1288	1292	1305	1340	1333	1327	1334	1317			
20	1185	1218	1312	1341	1399	1327	1302	1211	1182	1210	1289	1336	1377	1329	1316	1236			
25	1020	1091	1256	1414	1507	1389	1243	1051	1003	1045	1228	1369	1481	1402	1272	1110			
30	835	914	1172	1517	1704	1533	1131	907	823	881	1125	1461	1656	1524	1199	942			
35	640	734	1055	1568	1858	1608	1065	721	599	698	1006	1523	1820	1611	1104	766			
40	454	547	872	1571	2048	1631	900	531	414	511	837	1546	2040	1677	949	589			
45	323	378	677	1438	2001	1495	679	381	315	361	645	1430	2032	1582	764	415			
50	267	306	517	1255	1875	1308	537	305	269	296	488	1244	1900	1422	587	325			
55	229	265	427	1119	1437	1189	447	267	222	260	405	1103	1555	1245	474	268			
60	170	209	362	1088	1177	1150	392	207	159	202	344	1056	1236	1260	390	210			
65	109	138	235	904	1036	986	257	131	102	128	232	858	1064	1066	272	140			
70	62.7	74.6	151	370	344	357	155	77.2	60.8	74.6	141	299	349	394	167	81.7			
75	34.7	43.2	70.9	102	58.2	80.3	58.1	51.3	41.5	50.5	54.6	81.1	59.8	108	66.3	43.1			
80	19.9	28.5	22.0	20.1	8.19	9.25	16.3	38.7	27.7	37.7	18.4	10.1	8.47	16.8	17.4	28.7			
85	4.13	7.08	2.86	1.60	1.47	1.72	2.47	2.59	1.01	2.67	1.39	0.89	1.08	1.46	2.02	3.95			
90	1.90	2.01	2.41	0.51	0.07	0.51	1.83	1.27	0.06	0.68	0.74	0.19	0.19	0.19	1.26	1.15			
95	1.90	2.01	2.09	0.06	0.06	0.06	1.00	0.00	0.06	0.06	0.19	0.38	0.19	0.32	0.13	0.57			
100	0.00	0.00	0.06	0.06	0.06	0.25	0.51	0.00	0.19	0.13	0.32	0.70	0.64	0.76	0.19	0.06			
105	0.00	0.00	0.06	0.06	0.13	0.38	0.44	0.00	0.19	0.19	0.44	1.02	1.09	1.02	0.38	0.25			
110	0.00	0.00	0.06	0.06	0.45	0.51	0.44	0.00	0.19	0.25	0.51	1.21	1.46	1.21	0.57	0.25			
115	0.00	0.00	0.06	0.32	1.08	0.70	0.44	0.07	0.19	0.50	0.70	1.21	1.46	1.40	0.76	0.44			
120	0.00	0.00	0.06	0.51	1.08	1.08	0.69	0.19	0.25	0.50	0.89	1.21	1.46	1.40	0.82	0.38			
125	0.00	0.00	0.06	1.08	1.40	1.27	1.08	0.38	0.25	0.76	0.89	1.21	1.34	1.40	0.89	0.51			
130	0.06	0.06	0.06	1.08	1.40	1.27	1.08	0.76	0.38	0.88	1.20	1.14	1.21	1.40	1.01	0.64			
135	0.13	0.13	0.31	1.15	1.53	1.40	1.08	1.02	0.57	1.20	1.27	1.14	1.21	1.40	1.20	0.77			
140	0.13	0.13	0.32	1.14	1.53	1.40	1.08	1.21	0.76	1.32	1.27	1.14	1.21	1.40	1.27	0.96			
145	0.13	0.19	0.38	1.14	1.53	1.40	1.08	1.21	0.89	1.32	1.27	1.14	1.21	1.40	1.39	1.27			
150	0.38	0.31	0.44	1.14	1.53	1.40	1.20	1.21	0.95	1.13	1.27	1.14	1.21	1.40	1.39	1.40			
155	0.82	0.69	0.76	1.14	1.53	1.40	1.33	1.21	0.95	1.13	1.27	1.14	1.21	1.40	1.39	1.40			
160	1.01	0.88	0.95	1.21	1.46	1.40	1.27	1.21	1.39	1.01	1.27	1.14	1.21	1.40	1.39	1.40			
165	1.27	1.20	1.01	1.21	1.40	1.40	1.27	1.34	1.33	1.26	1.27	1.14	1.21	1.40	1.39	1.40			
170	1.20	1.20	1.08	1.21	1.40	1.40	1.33	1.53	1.27	1.20	1.27	1.14	1.21	1.40	1.39	1.40			
175	1.20	1.20	1.08	1.21	1.40	1.40	1.39	1.53	1.20	1.20	1.26	1.14	1.21	1.40	1.39	1.40			
180	1.20	1.20	1.20	1.21	1.40	1.40	1.39	1.53	1.20	1.20	1.20	1.14	1.21	1.40	1.39	1.40			

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:Teddy  
 Test Date:2015-10-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity:65%  
 Test Distance:26.000m [K=1.2918]  
 Remarks: