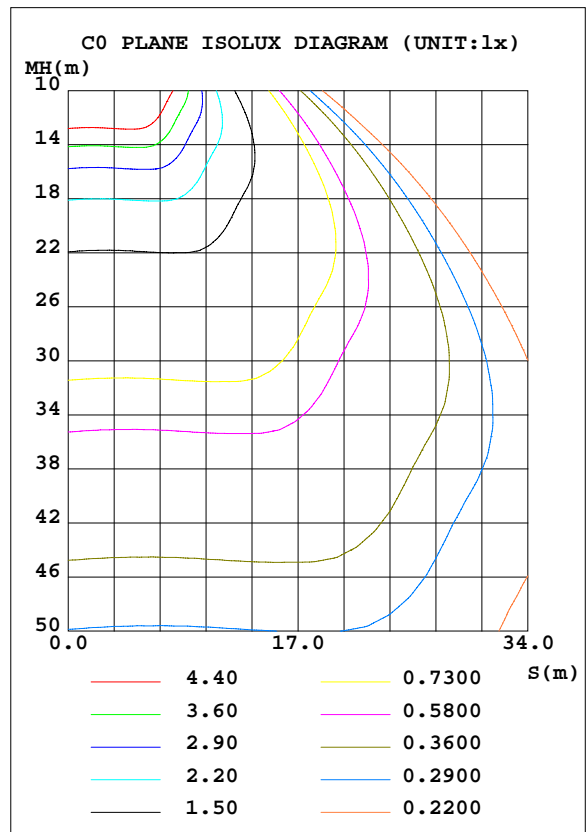
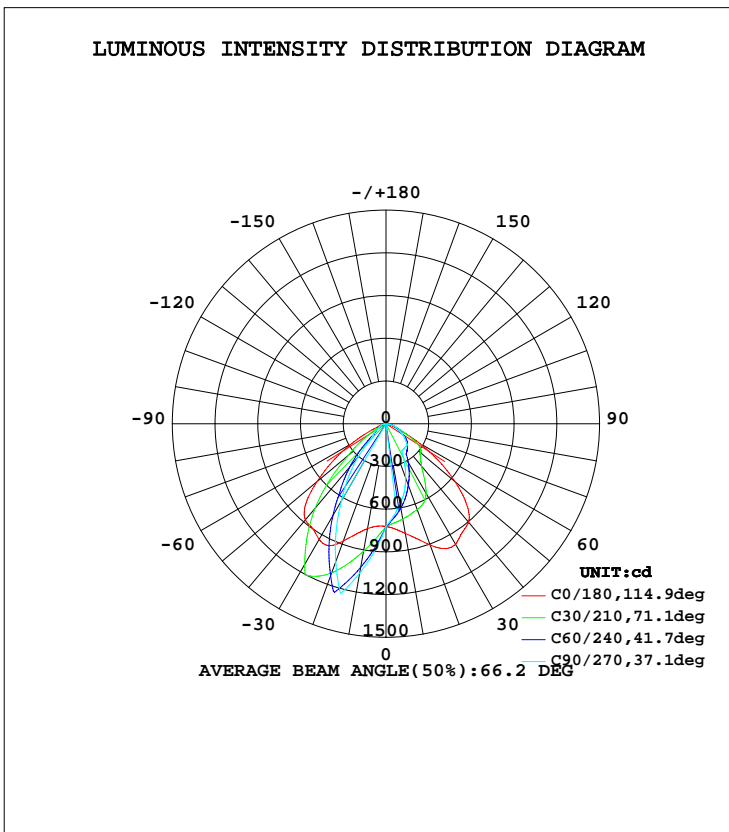


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:12.00V I:0.9000A P:10.80W PF:1.000 Lamp Flux:1636x1 lm		
NAME: LED Integrated Solar StreetLight	TYPE:Cool White	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 151.51 lm/W			
MODEL	SPWTL002-10	I _{max} (cd)	1241	S/MH(C0/180)	1.66
NOMINAL POWER(W)	10.8	LOR(%)	100.0	S/MH(C90/270)	0.68
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	1636.3	η UP, DN(C0-180)	0.0, 57.9
NOMINAL FLUX(lm)	1636	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 42.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	12	η down(%)	100.0	CIBSE SHR MAX	0.85



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-08-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:11.010m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
5	722.8	842.4	892.8	852.1	742.5	678.4	646.6	666.8	0- 5	17.80	17.80	1.09,1.09
10	747.8	973.0	1065	983.1	782.0	635.4	572.1	600.6	5- 10	55.75	73.54	4.49,4.5
15	801.2	1103	1236	1106	835.2	585.8	497.6	442.4	10- 15	96.68	170.2	10.4,10.4
20	874.6	1227	1033	1215	906.0	529.3	404.9	519.2	15- 20	136.9	307.2	18.8,18.8
25	943.4	1098	829.2	1087	966.8	478.7	312.3	472.1	20- 25	166.4	473.6	28.9,28.9
30	939.3	908.8	625.7	868.4	978.5	417.9	219.6	407.1	25- 30	182.3	655.9	40.1,40.1
35	899.1	703.6	464.0	702.7	933.6	328.9	216.6	303.4	30- 35	183.1	839.0	51.3,51.3
40	881.7	498.8	302.3	502.0	903.1	238.1	213.6	209.4	35- 40	174.8	1014	62,62
45	796.7	352.4	140.6	354.9	801.4	230.3	210.6	205.4	40- 45	159.4	1173	71.7,71.7
50	632.1	207.7	114.4	211.4	635.1	222.4	180.9	198.8	45- 50	136.6	1310	80,80.1
55	453.5	73.79	88.12	80.42	446.0	204.0	151.3	184.7	50- 55	110.2	1420	86.8,86.8
60	275.8	57.80	61.87	61.98	261.1	158.9	121.6	149.0	55- 60	81.96	1502	91.8,91.8
65	133.4	44.48	51.26	46.16	123.7	108.7	99.90	109.9	60- 65	55.21	1557	95.2,95.2
70	57.28	33.70	40.64	34.14	49.40	69.59	78.18	76.18	65- 70	35.88	1593	97.4,97.4
75	33.90	24.25	30.02	24.82	31.27	48.58	56.47	52.70	70- 75	24.91	1618	98.9,98.9
80	17.50	13.05	0	13.60	17.48	25.19	0	26.22	75- 80	14.75	1633	99.8,99.8
85	3.676	0	0	0	3.750	0	0	0	80- 85	3.517	1636	100,100
90	0.3852	0	0	0	0.3434	0	0	0	85- 90	0.1652	1636	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

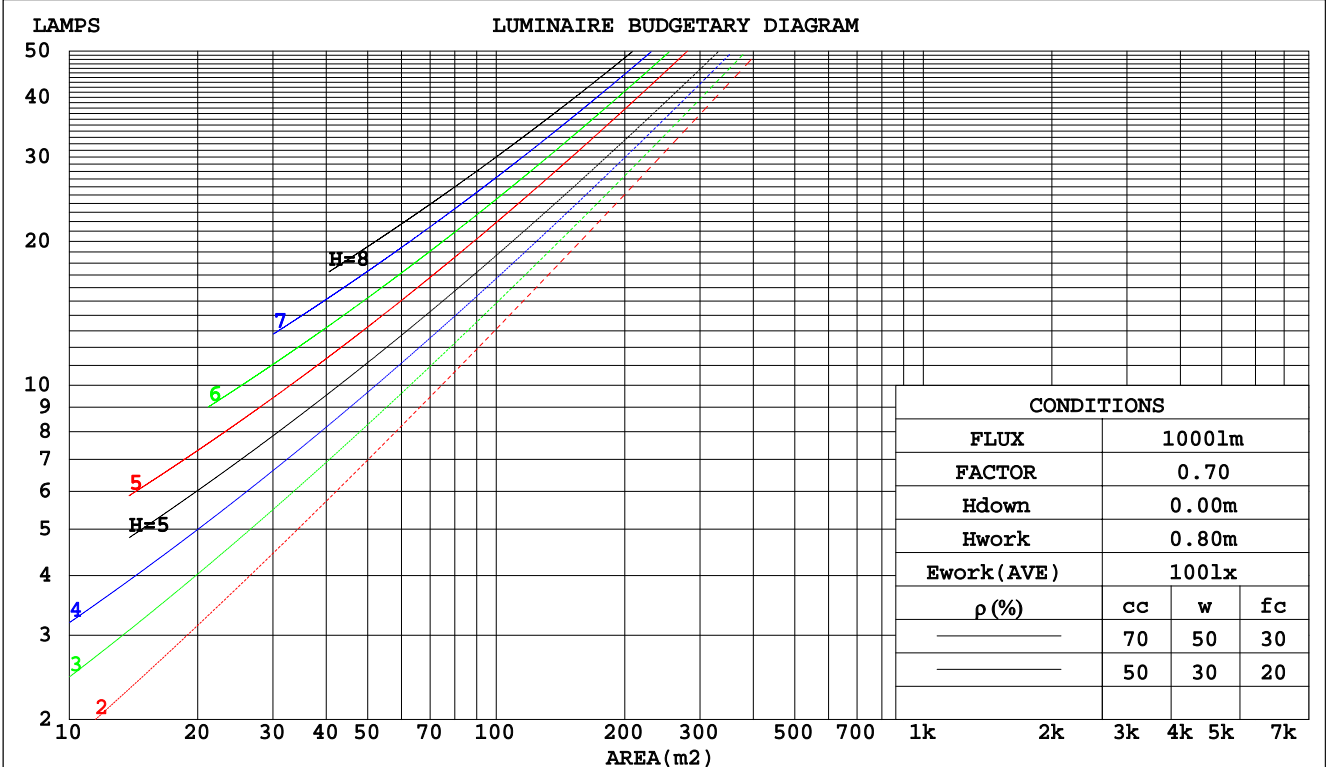
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-08-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:11.010m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:12.00V I:0.9000A P:10.80W PF:1.000 Lamp Flux:1636x1 lm		
NAME: LED Integrated Solar StreetLight	TYPE:Cool White	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.07	1.04	1.01	1.05	1.02	.99	1.01	.99	.96	.97	.95	.93	.94	.92	.91	.89
2.0	.96	.91	.86	.95	.89	.85	.91	.87	.83	.88	.84	.81	.85	.82	.80	.78
3.0	.87	.80	.74	.85	.79	.74	.82	.77	.73	.80	.75	.71	.77	.73	.70	.68
4.0	.78	.71	.65	.77	.70	.65	.75	.69	.64	.72	.67	.63	.70	.66	.62	.60
5.0	.71	.63	.57	.70	.63	.57	.68	.62	.57	.66	.60	.56	.64	.59	.55	.54
6.0	.65	.57	.51	.64	.56	.51	.62	.56	.51	.61	.55	.50	.59	.54	.50	.48
7.0	.59	.52	.46	.59	.51	.46	.57	.50	.46	.56	.50	.45	.54	.49	.45	.43
8.0	.55	.47	.42	.54	.47	.42	.53	.46	.41	.52	.46	.41	.50	.45	.41	.39
9.0	.50	.43	.38	.50	.43	.38	.49	.42	.38	.48	.42	.38	.47	.41	.37	.36
10.0	.47	.40	.35	.46	.39	.35	.45	.39	.35	.45	.39	.34	.44	.38	.34	.33



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2018-08-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity: 65.0%
 Test Distance: 11.010m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:12.00V I:0.9000A P:10.80W PF:1.000 Lamp Flux:1636x1 lm		
NAME: LED Integrated Solar StreetLight	TYPE:Cool White	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.242	.137	.044	.235	.134	.043	.222	.127	.041	.210	.121	.039	.199	.115	.037	
2.0	.235	.129	.040	.229	.126	.039	.218	.121	.038	.208	.117	.036	.198	.112	.035	
3.0	.223	.119	.036	.218	.117	.035	.208	.113	.034	.199	.109	.034	.191	.106	.033	
4.0	.211	.110	.032	.206	.108	.032	.198	.105	.031	.190	.102	.031	.182	.099	.030	
5.0	.198	.101	.029	.194	.100	.029	.187	.097	.029	.180	.095	.028	.173	.092	.028	
6.0	.187	.094	.027	.183	.093	.027	.177	.090	.026	.170	.088	.026	.164	.086	.026	
7.0	.176	.087	.025	.173	.086	.025	.167	.084	.024	.161	.083	.024	.156	.081	.024	
8.0	.167	.081	.023	.164	.081	.023	.158	.079	.023	.153	.078	.022	.148	.076	.022	
9.0	.158	.076	.021	.155	.076	.021	.150	.074	.021	.146	.073	.021	.141	.072	.021	
10.0	.149	.072	.020	.147	.071	.020	.143	.070	.020	.139	.069	.020	.135	.068	.019	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.176	.157	.140	.150	.135	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.165	.132	.105	.141	.114	.091	.097	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.156	.114	.081	.133	.098	.070	.092	.068	.049	.053	.040	.029	.017	.013	.009	
4.0	.147	.100	.064	.126	.087	.056	.087	.060	.039	.050	.035	.023	.016	.012	.008	
5.0	.140	.089	.052	.120	.077	.045	.083	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.133	.081	.043	.115	.070	.037	.079	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.127	.074	.036	.109	.064	.032	.075	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.121	.068	.031	.104	.059	.027	.072	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.116	.063	.027	.100	.055	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.095	.051	.021	.066	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-08-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:11.010m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:12.00V I:0.9000A P:10.80W PF:1.000 Lamp Flux:1636x1 lm		
NAME: LED Integrated Solar StreetLight	TYPE:Cool White	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	19.5	20.9	19.8	21.0	21.2	12.9	14.2	13.1	14.4	14.5
3H	19.5	20.7	19.8	21.0	21.2	13.4	14.6	13.7	14.8	15.1
4H	19.5	20.6	19.8	20.9	21.1	13.8	14.9	14.1	15.2	15.4
6H	19.5	20.5	19.8	20.8	21.1	13.8	14.9	14.1	15.1	15.4
8H	19.4	20.5	19.8	20.7	21.0	13.8	14.8	14.1	15.1	15.3
12H	19.4	20.4	19.7	20.7	20.9	13.7	14.7	14.1	15.0	15.3
4H 2H	19.3	20.4	19.6	20.7	20.9	13.0	14.2	13.3	14.4	14.6
3H	19.3	20.3	19.6	20.6	20.9	13.8	14.8	14.1	15.0	15.3
4H	19.3	20.2	19.7	20.5	20.8	14.3	15.2	14.7	15.5	15.8
6H	19.3	20.1	19.7	20.4	20.8	14.4	15.2	14.8	15.5	15.9
8H	19.3	20.0	19.7	20.4	20.8	14.3	15.1	14.8	15.4	15.8
12H	19.3	19.9	19.7	20.3	20.7	14.3	15.0	14.7	15.3	15.7
8H 4H	19.2	19.9	19.6	20.3	20.7	14.4	15.1	14.8	15.5	15.8
6H	19.2	19.8	19.7	20.2	20.7	14.5	15.1	14.9	15.5	15.9
8H	19.3	19.8	19.7	20.2	20.6	14.4	15.0	14.9	15.4	15.8
12H	19.2	19.7	19.7	20.1	20.6	14.4	14.8	14.9	15.3	15.8
12H 4H	19.2	19.8	19.6	20.2	20.6	14.4	15.0	14.8	15.4	15.8
6H	19.2	19.7	19.7	20.1	20.6	14.5	15.0	14.9	15.4	15.9
8H	19.2	19.7	19.7	20.1	20.6	14.4	14.9	14.9	15.3	15.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.5 / - 2.4					+ 1.2 / - 1.8				
1.5H	+ 2.3 / - 4.3					+ 1.8 / - 1.6				
2.0H	+ 4.4 / - 7.8					+ 0.5 / - 0.8				

CIE Pub.117 Corrected 1636 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.7)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-08-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:11.010m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:12.00V I:0.9000A P:10.80W PF:1.000 Lamp Flux:1636x1 lm		
NAME: LED Integrated Solar StreetLight	TYPE:Cool White	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	67	58	52	67	57	52	66	57	51	46
0.80	77	68	62	76	67	62	75	67	61	55
1.00	85	76	70	84	76	70	82	77	70	64
1.25	92	83	78	90	83	77	88	81	77	71
1.50	96	88	83	94	87	82	92	86	81	75
2.00	101	95	90	100	94	89	97	92	88	81
2.50	104	98	94	102	97	93	99	94	91	84
3.00	107	102	97	105	100	96	101	97	94	87
4.00	110	105	102	108	104	101	104	100	98	90
5.00	112	108	105	109	106	103	105	102	100	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-08-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:11.010m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:12.00V I:0.9000A P:10.80W PF:1.000 Lamp Flux:1636x1 lm		
NAME: LED Integrated Solar StreetLight	TYPE:Cool White	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

1173.1 lm

%lum = 71.7%

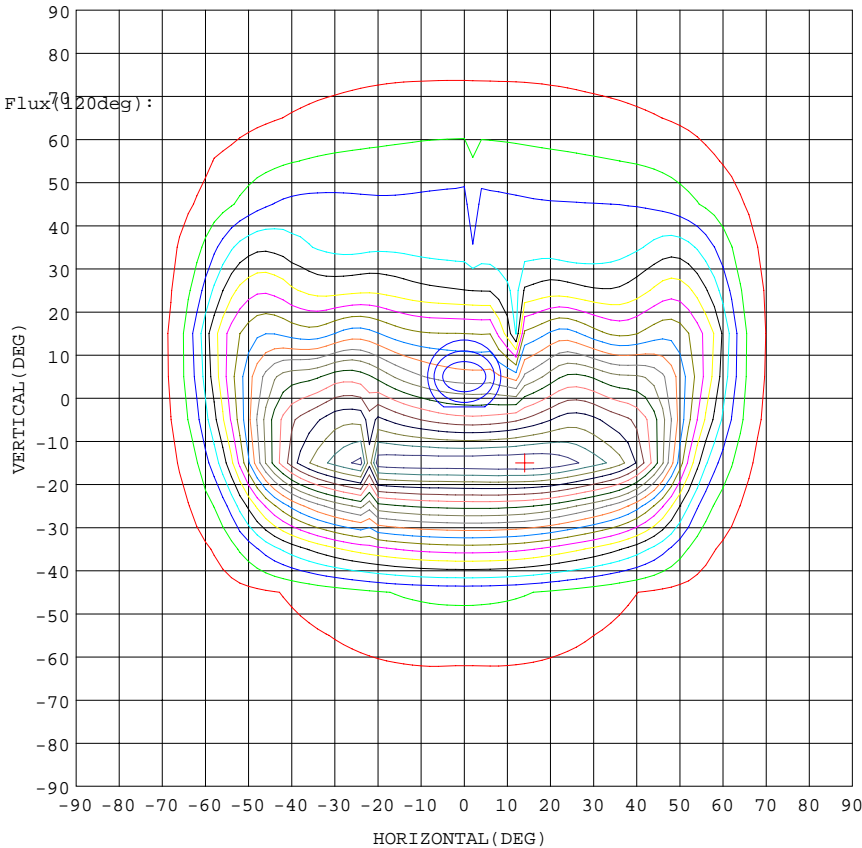
%lamp = 71.7%

Conical surface Flux(70deg):

1501.9 lm

%lum = 91.8%

%lamp = 91.8%



- 5% 62.22
- 10% 124.4
- 15% 186.7
- 20% 248.9
- 25% 311.1
- 30% 373.3
- 35% 435.6
- 40% 497.8
- 45% 560.0
- 50% 622.2
- 55% 684.5
- 60% 746.7
- 65% 808.9
- 70% 871.1
- 75% 933.4
- 80% 995.6
- 85% 1058
- 90% 1120
- 95% 1182

- 1. AVG=0,MIN=0
- 2. AVG=647.3,MIN=570.4
- 3. AVG=651.2,MIN=569.9

Imax:1244(H14.0,V-15.0)
(At:C=65.0,Gamma=16.5)

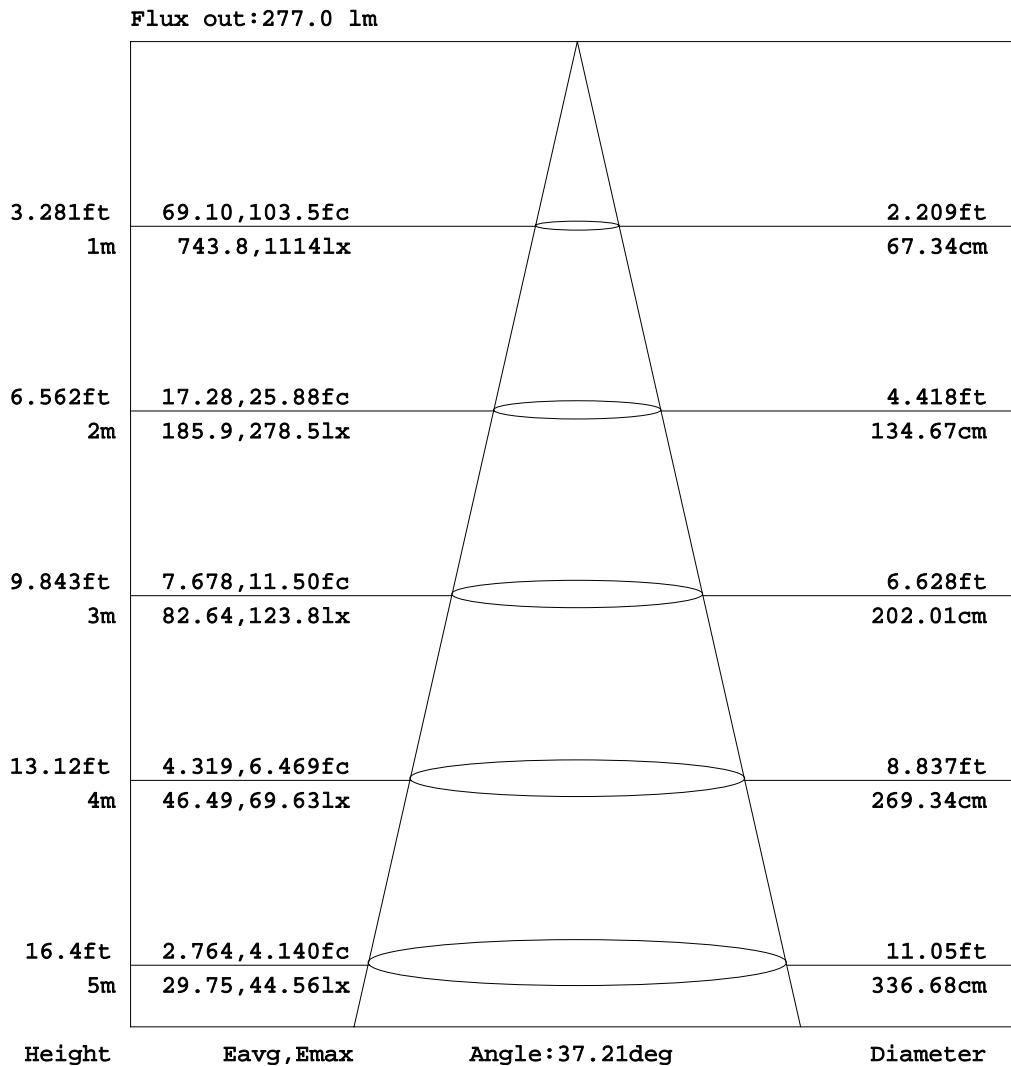
UNIT: cd

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018-08-03

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:11.010m [K=1.0000]
Remarks:

AAI Figure

Test:U:12.00V I:0.9000A P:10.80W PF:1.000 Lamp Flux:1636x1 lm		
NAME: LED Integrated Solar StreetLight	TYPE:Cool White	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



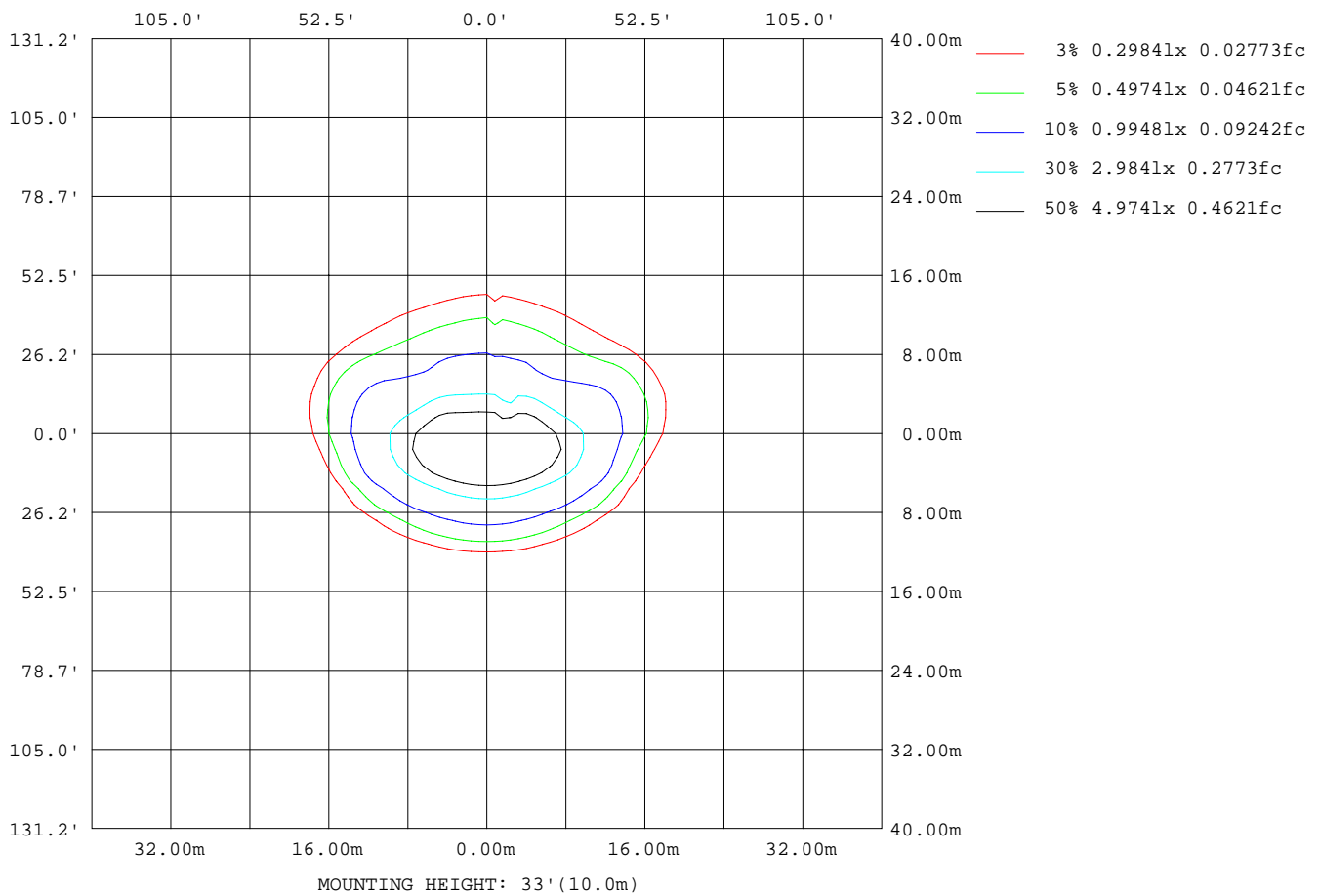
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-08-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:11.010m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

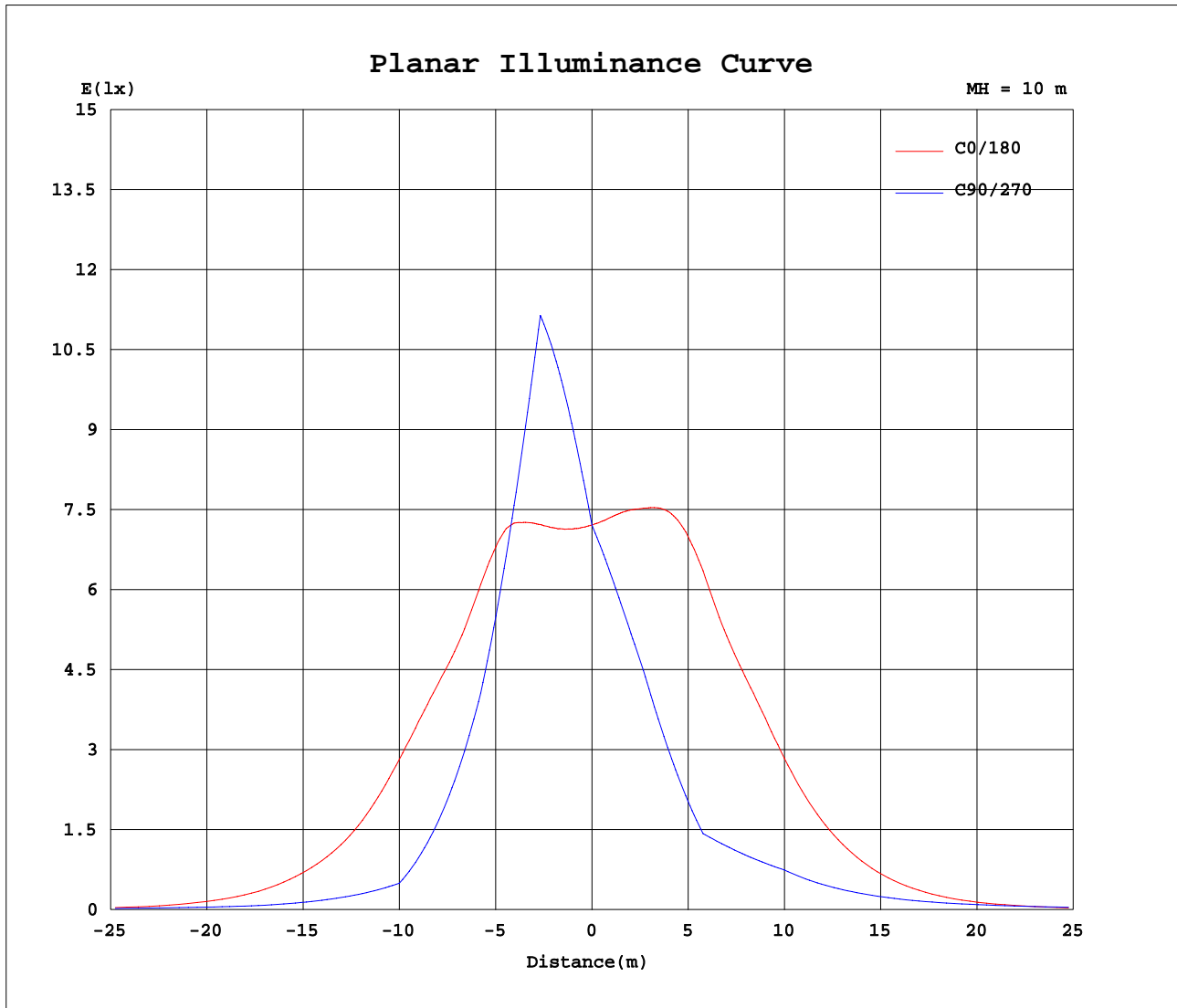
Test:U:12.00V I:0.9000A P:10.80W PF:1.000 Lamp Flux:1636x1 lm		
NAME: LED Integrated Solar StreetLight	TYPE:Cool White	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-08-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:11.010m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2018-08-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity: 65.0%
 Test Distance: 11.010m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:12.00V I:0.9000A P:10.80W PF:1.000 Lamp Flux:1636x1 lm		
NAME: LED Integrated Solar StreetLight	TYPE:Cool White	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721
5	723	738	753	767	781	795	808	820	831	842	852	861	869	876	881	886	890	892	893
10	748	777	805	832	859	884	908	931	953	973	991	1008	1023	1035	1045	1053	1059	1063	1065
15	801	840	877	913	948	982	1014	1045	1075	1103	1130	1155	1177	1196	1211	1223	1230	1235	1236
20	875	917	957	996	1035	1074	1113	1151	1190	1227	1219	1175	1138	1108	1082	1061	1046	1036	1033
25	943	982	1021	1060	1098	1139	1183	1229	1161	1098	1041	992	948	911	883	860	843	833	829
30	939	981	1023	1067	1112	1159	1142	1056	979	909	847	793	747	710	679	656	639	629	626
35	899	946	995	1047	1102	1072	964	866	780	704	638	581	551	526	505	488	475	467	464
40	882	914	953	1006	1015	891	774	666	571	499	459	424	393	367	345	327	313	305	302
45	797	805	832	879	786	674	560	450	399	352	309	271	237	208	185	165	152	143	141
50	632	604	607	601	527	436	346	303	256	208	162	120	106	109	112	113	114	114	114
55	453	389	352	320	279	230	208	170	120	73.8	78.0	81.6	84.4	86.5	87.8	88.3	88.2	88.1	88.1
60	276	222	180	147	115	116	96.3	54.9	54.9	57.8	60.6	63.2	64.9	65.4	65.1	63.9	62.8	62.1	61.9
65	133	105	86.8	62.5	58.4	50.8	39.5	40.7	42.7	44.5	45.8	47.0	49.4	51.1	52.3	52.9	53.0	52.0	51.3
70	57.3	50.0	42.3	37.1	33.9	31.6	31.1	31.6	32.5	33.7	35.4	37.7	40.3	42.1	43.7	44.6	44.6	42.4	40.6
75	33.9	33.2	27.9	25.7	24.4	23.7	23.1	22.7	23.1	24.2	26.2	28.7	31.4	33.2	35.1	36.3	36.3	32.9	30.0
80	17.5	16.7	17.3	17.3	16.0	15.1	14.3	13.7	14.0	13.1	11.8	10.2	8.41	6.17	4.19	2.44	1.09	0.25	0.00
85	3.68	2.58	4.15	5.01	5.16	2.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.39	0.00	0.00	0.00	0.00	0.00	0.00	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: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-08-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:11.010m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:12.00V I:0.9000A P:10.80W PF:1.000 Lamp Flux:1636x1 lm		
NAME: LED Integrated Solar StreetLight	TYPE:Cool White	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	
0	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	
5	893	892	889	886	881	875	869	861	852	842	832	821	809	797	784	771	757	743	735	
10	1064	1061	1055	1048	1038	1027	1014	999	983	965	946	926	904	882	858	834	808	782	765	
15	1234	1228	1219	1206	1191	1173	1153	1131	1106	1080	1053	1025	996	966	935	903	870	835	807	
20	1035	1042	1056	1075	1100	1130	1166	1207	1215	1182	1148	1114	1080	1047	1013	978	943	906	863	
25	831	840	855	877	905	939	981	1031	1087	1151	1194	1055	1035	1069	1070	1035	1001	967	908	
30	628	636	652	674	703	740	786	841	868	883	1054	1138	1157	1117	1079	1043	1010	979	898	
35	466	473	485	501	522	548	580	618	703	780	865	959	1062	1092	1046	1004	967	934	839	
40	305	312	325	343	366	394	426	462	502	572	662	763	872	989	987	949	922	903	801	
45	144	152	166	186	210	240	274	313	355	399	446	550	659	769	863	826	805	801	725	
50	114	114	114	113	112	110	124	166	211	257	302	343	433	527	609	620	613	635	599	
55	88.3	88.6	88.8	88.9	88.3	87.0	85.2	83.1	80.4	125	172	211	235	292	343	378	398	446	451	
60	62.2	62.9	64.0	65.3	66.0	66.0	65.2	63.9	62.0	59.6	60.1	101	124	124	158	188	219	261	287	
65	52.2	53.2	53.0	52.3	51.0	49.4	47.2	46.6	46.2	45.1	43.7	42.3	54.0	60.7	64.3	82.8	97.6	124	139	
70	42.6	44.8	44.8	43.7	42.1	40.4	38.2	35.9	34.1	33.1	32.7	32.4	32.8	35.0	37.6	41.1	45.3	49.4	56.4	
75	33.1	36.6	36.5	35.1	33.3	31.6	29.4	26.8	24.8	23.7	23.4	23.8	24.5	25.1	26.3	27.6	29.3	31.3	33.7	
80	0.25	1.10	2.46	4.21	6.21	8.49	10.5	12.2	13.6	14.7	14.5	15.1	15.7	16.4	17.7	18.5	17.5	17.5	20.0	
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.03	5.20	5.07	4.07	2.90	3.75	5.70
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-08-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:11.010m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:12.00V I:0.9000A P:10.80W PF:1.000 Lamp Flux:1636x1 lm		
NAME: LED Integrated Solar StreetLight	TYPE:Cool White	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

Table--3

UNIT: cd

C(DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721
5	728	720	713	706	698	691	685	678	673	667	662	658	655	652	649	648	647	646	647
10	748	731	714	697	680	664	649	635	623	611	602	593	586	581	576	574	572	572	573
15	777	747	717	688	660	633	608	586	566	548	534	522	513	507	502	499	498	497	499
20	819	774	728	684	641	600	563	529	502	479	460	443	430	420	413	408	405	405	407
25	848	790	731	674	619	565	519	479	443	413	387	365	347	334	324	316	312	311	314
30	821	748	680	617	563	513	463	418	377	343	313	287	265	248	235	226	220	218	221
35	747	660	579	517	471	422	374	329	292	260	251	242	233	226	222	219	217	200	211
40	700	599	508	448	390	334	278	238	236	237	233	227	221	216	214	213	214	192	207
45	650	563	489	414	344	274	247	230	222	218	214	209	205	204	205	207	211	192	204
50	568	524	464	393	319	271	241	222	212	205	195	186	181	179	178	179	181	175	177
55	467	435	395	348	291	247	219	204	187	174	163	156	152	150	150	150	151	150	149
60	317	299	284	254	216	185	173	159	146	136	129	125	123	122	122	122	122	121	121
65	154	152	156	141	127	126	118	109	99.8	95.5	96.8	97.9	98.9	99.4	100.0	100	99.9	99.4	99.0
70	62.7	72.0	73.1	76.2	77.5	73.2	66.4	69.6	72.1	74.0	75.4	76.8	77.8	78.3	78.4	78.5	78.2	77.9	77.8
75	36.8	40.5	42.7	44.2	47.3	44.8	46.3	48.6	50.9	52.9	54.3	55.9	56.9	57.2	56.9	56.7	56.5	56.3	56.7
80	23.2	24.5	24.9	25.6	27.9	26.7	27.4	25.2	21.7	17.9	13.8	10.1	6.67	3.81	1.69	0.42	0.00	0.42	1.68
85	6.59	7.42	8.03	4.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-08-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:11.010m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:12.00V I:0.9000A P:10.80W PF:1.000 Lamp Flux:1636x1 lm		
NAME: LED Integrated Solar StreetLight	TYPE:Cool White	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721				
5	648	649	652	655	658	662	667	672	677	683	690	696	703	709	716				
10	575	579	584	591	599	601	601	604	612	624	639	658	678	701	724				
15	502	509	507	480	460	449	442	443	482	570	641	692	720	748	775				
20	413	403	367	329	273	333	519	553	590	629	670	713	755	796	836				
25	318	296	270	247	397	431	472	519	571	621	671	721	776	830	886				
30	226	228	227	291	324	363	407	454	501	545	591	649	713	784	860				
35	210	213	219	226	233	265	303	347	392	437	482	543	623	711	804				
40	206	208	211	215	212	208	209	249	302	355	409	468	561	668	774				
45	201	199	200	200	198	200	205	217	238	304	374	451	532	629	713				
50	177	177	180	185	190	193	199	212	237	278	357	441	513	565	597				
55	149	149	151	156	163	172	185	196	221	266	330	389	433	468	456				
60	121	121	123	126	131	139	149	161	173	208	251	286	310	336	304				
65	98.4	97.8	97.7	97.6	97.9	102	110	119	126	130	150	170	173	166	147				
70	77.7	77.3	76.9	76.3	76.2	76.3	76.2	75.9	81.0	84.6	85.2	86.8	85.0	77.3	67.8				
75	57.0	56.9	56.3	55.1	54.5	53.7	52.7	51.9	50.6	47.7	48.8	48.9	46.5	42.6	37.4				
80	3.80	6.68	10.2	14.1	18.4	22.5	26.2	28.8	28.3	27.8	27.4	26.4	25.7	23.6	20.5				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.97	8.52	7.29	7.00	4.13				
90	0.00	0.00	0.00	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: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-08-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:11.010m [K=1.0000]
 Remarks: