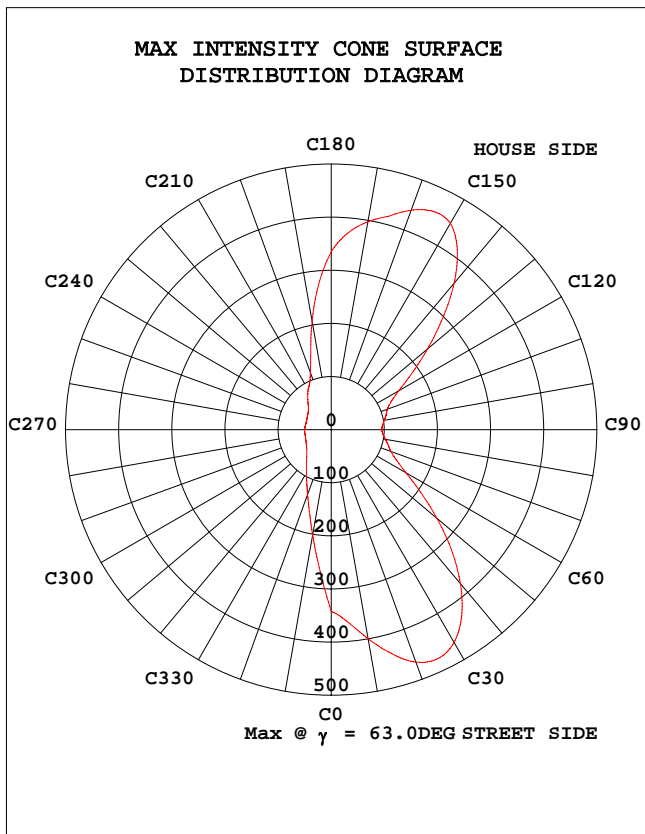
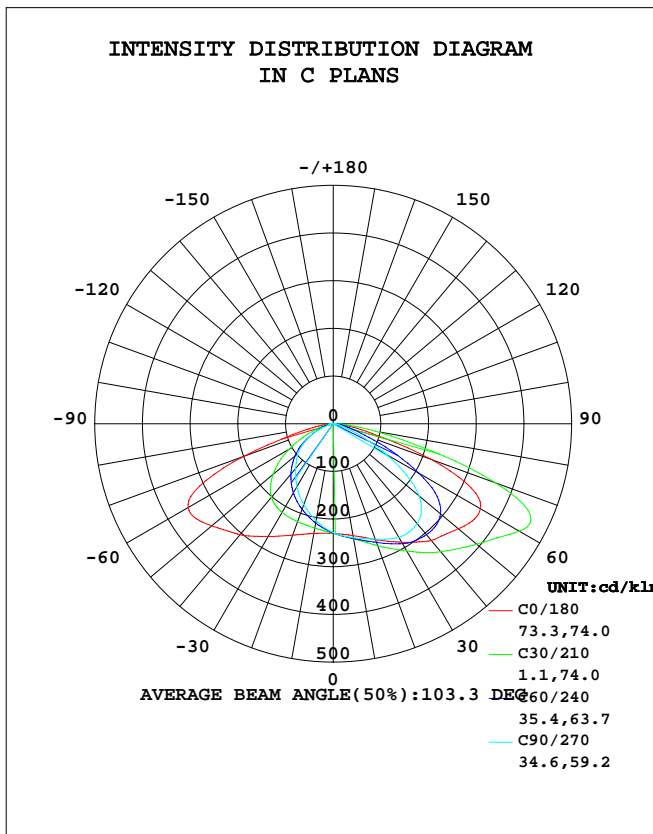


## STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:16.3V I:4.889A P:79.69W PF:1.000 Freq:0Hz Lamp Flux:11711.1x1 lm		
NAME: LD-SWL-80W	TYPE:LD-SWL-80W	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

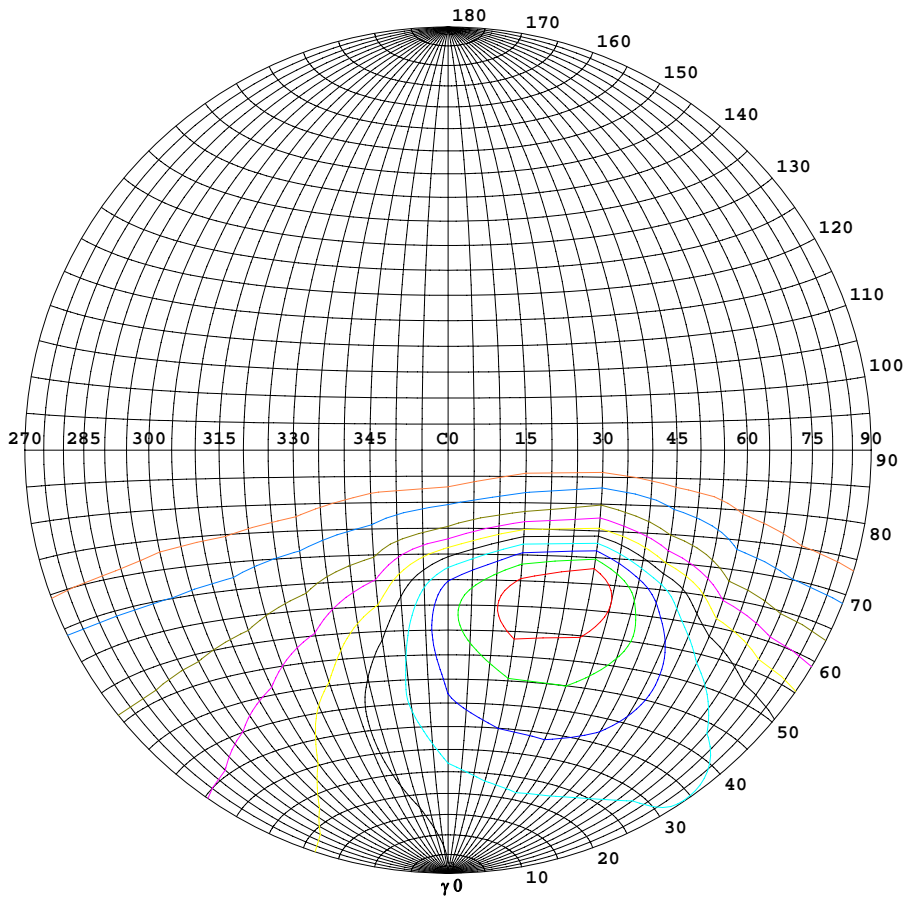
DATA OF LAMP		PHOTOMETRIC DATA Eff: 146.95 lm/W			
MODEL	LD-SWL-80W	Imax(cd/klm)	462.5	$\eta$ street_up(%)	0.3
NOMINAL POWER(W)	80	LOR(%)	100.0	$\eta$ street_down(%)	53.6
RATED VOLTAGE(V)		TOTAL FLUX(lm/klm)	1000	$\eta$ house_up(%)	0.2
NOMINAL FLUX(lm)	11711.1	MAXIMUM @(C, $\gamma$ )	30,63.0	$\eta$ house_down(%)	45.9
LAMPS INSIDE	1	$\eta$ up(%)	0.5	76 FLASHAREA(m2)	
TEST VOLTAGE(V)		$\eta$ down(%)	99.5	SLI	



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-08-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:11.100m [K=1.0000]  
 Remarks:

# STREETLIGHT ISOCANDELA DIAGRAM



**Classification:**

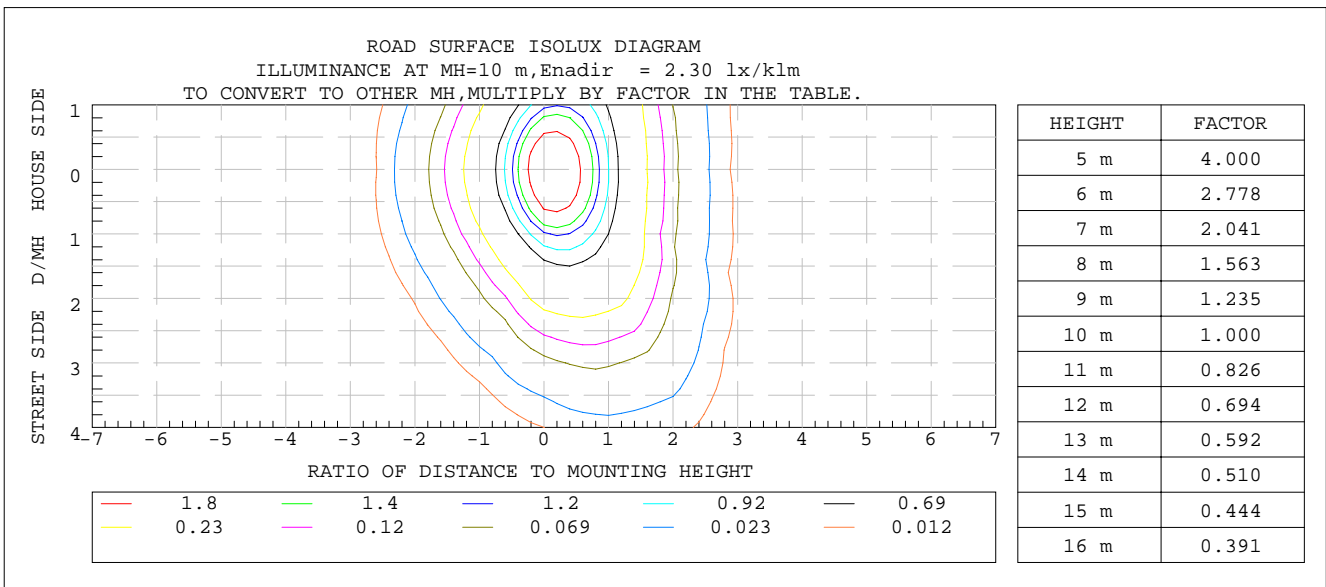
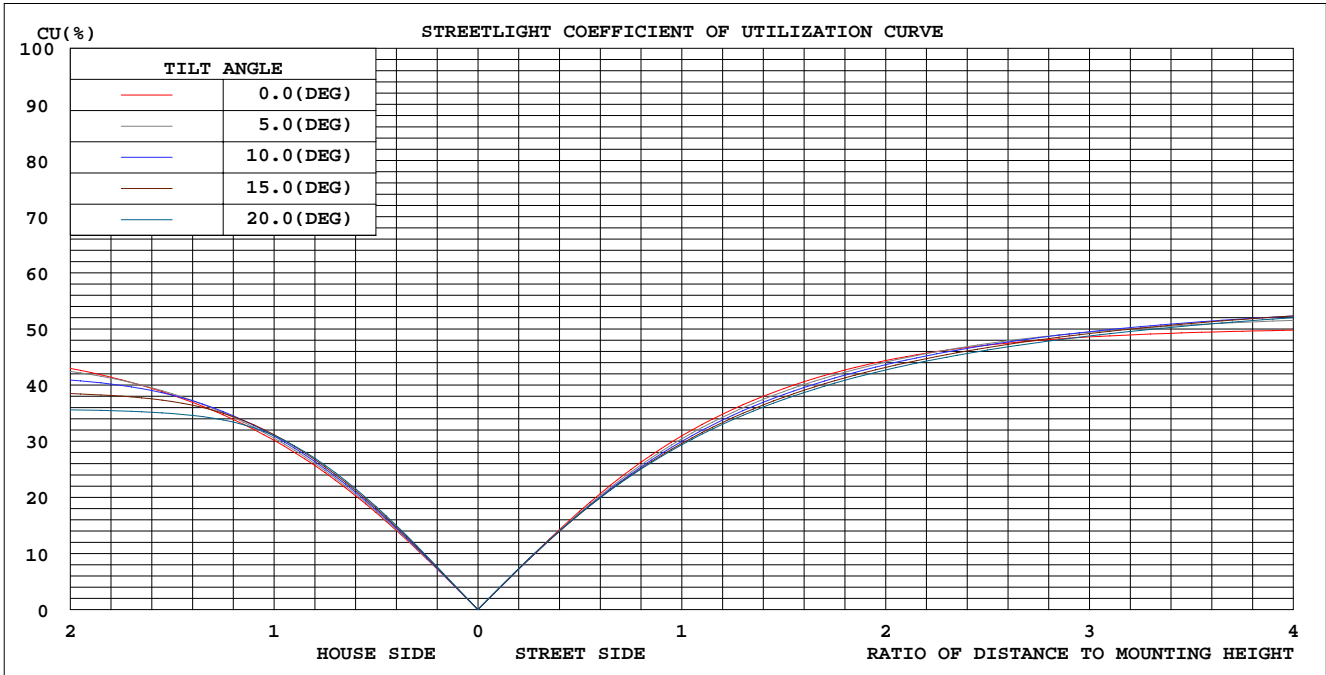
IES:Type III - Short  
 CIE:Broad - Intermediate  
 IES:Cut-off  
 CIE:Semi-cut-off  
 Max.At80:89.49cd/klm  
 Max.At90:5.096cd/klm  
 Max.80-90:89.49cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd/klm
Imax=100%	462
90%	416
80%	370
70%	324
60%	277
50%	231
40%	185
30%	139
20%	92
10%	46
5%	23

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-08-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:11.100m [K=1.0000]  
 Remarks:

## COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-08-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 11.100m [K=1.0000]  
 Remarks:

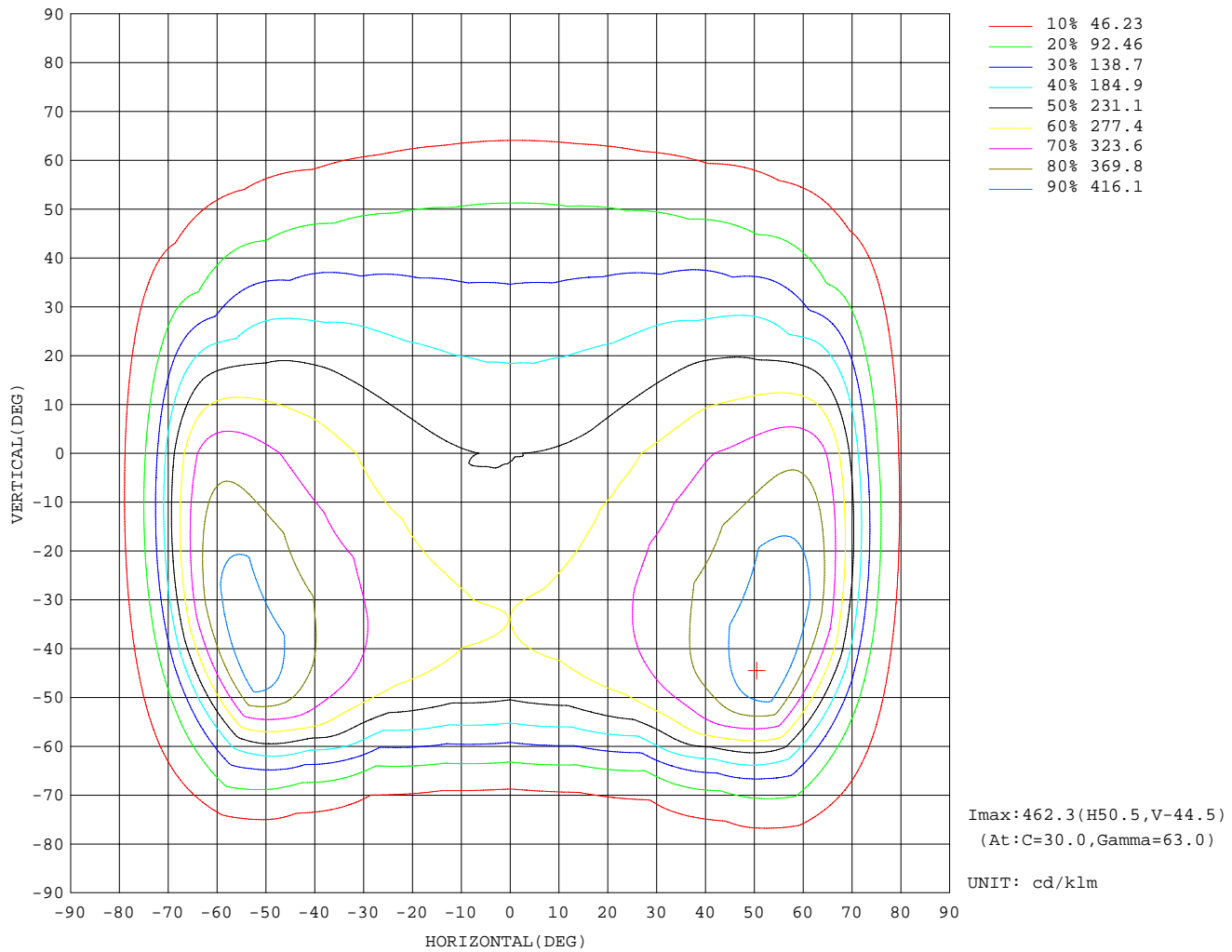
### ZONAL FLUX DIAGRAM

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	238.2	244.9	242.7	239.4	233.7	216.4	206.5	213.9	0- 10	21.80	21.80	2.18,2.18
20	258.5	269.4	257.5	260.2	248.7	203.3	180.5	201.6	10- 20	65.64	87.45	8.74,8.74
30	287.0	301.3	275.4	288.3	273.0	186.9	152.5	185.7	20- 30	110.6	198.1	19.8,19.8
40	319.5	330.4	273.8	315.3	303.8	160.1	122.6	161.0	30- 40	154.7	352.8	35.3,35.3
50	342.7	352.8	234.9	337.0	333.1	122.7	95.95	125.0	40- 50	190.0	542.7	54.3,54.3
60	356.3	342.1	129.6	322.0	351.3	75.76	61.40	80.07	50- 60	204.3	747.0	74.7,74.7
70	218.4	182.4	38.13	153.1	199.6	32.81	20.99	35.99	60- 70	167.0	914.1	91.4,91.4
80	42.51	42.69	10.07	36.05	37.78	11.55	8.418	13.08	70- 80	67.64	981.7	98.2,98.2
90	1.573	3.416	2.167	2.522	1.397	0.5033	0.5005	1.227	80- 90	13.46	995.2	99.5,99.5
100	0.4341	0.7015	1.841	0.7164	0.4270	0.4490	0.1382	0.3940	90-100	0.9195	996.1	99.6,99.6
110	0.7234	0.5417	0.8845	0.5558	0.7178	0.7349	0.3340	0.6794	100-110	0.6447	996.7	99.7,99.7
120	0.8912	0.3666	0.9368	0.3852	0.8964	0.9225	0.8872	0.8840	110-120	0.6875	997.4	99.7,99.7
130	0.9551	0.6266	0.6757	0.6246	0.9639	0.9900	1.045	1.046	120-130	0.7464	998.2	99.8,99.8
140	0.9024	0.7116	0.9311	0.5754	0.9138	0.9838	0.9595	1.030	130-140	0.6748	998.8	99.9,99.9
150	0.8331	0.6608	0.8319	0.6675	0.8440	0.9139	0.9456	0.8861	140-150	0.5087	999.3	99.9,99.9
160	0.8193	0.7094	0.6400	0.6715	0.8314	0.8759	0.8800	0.8523	150-160	0.3643	999.7	100,100
170	0.8171	0.7572	0.7208	0.7303	0.8215	0.8589	0.8605	0.8336	160-170	0.2241	999.9	100,100
180	0.8259	0.8342	0.8188	0.7995	0.8270	0.8320	0.8210	0.8028	170-180	0.0766	1000	100,100
DEG	LUMINOUS INTENSITY:cd/klm									UNIT:lm/klm		

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-08-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:11.100m [K=1.0000]  
 Remarks:

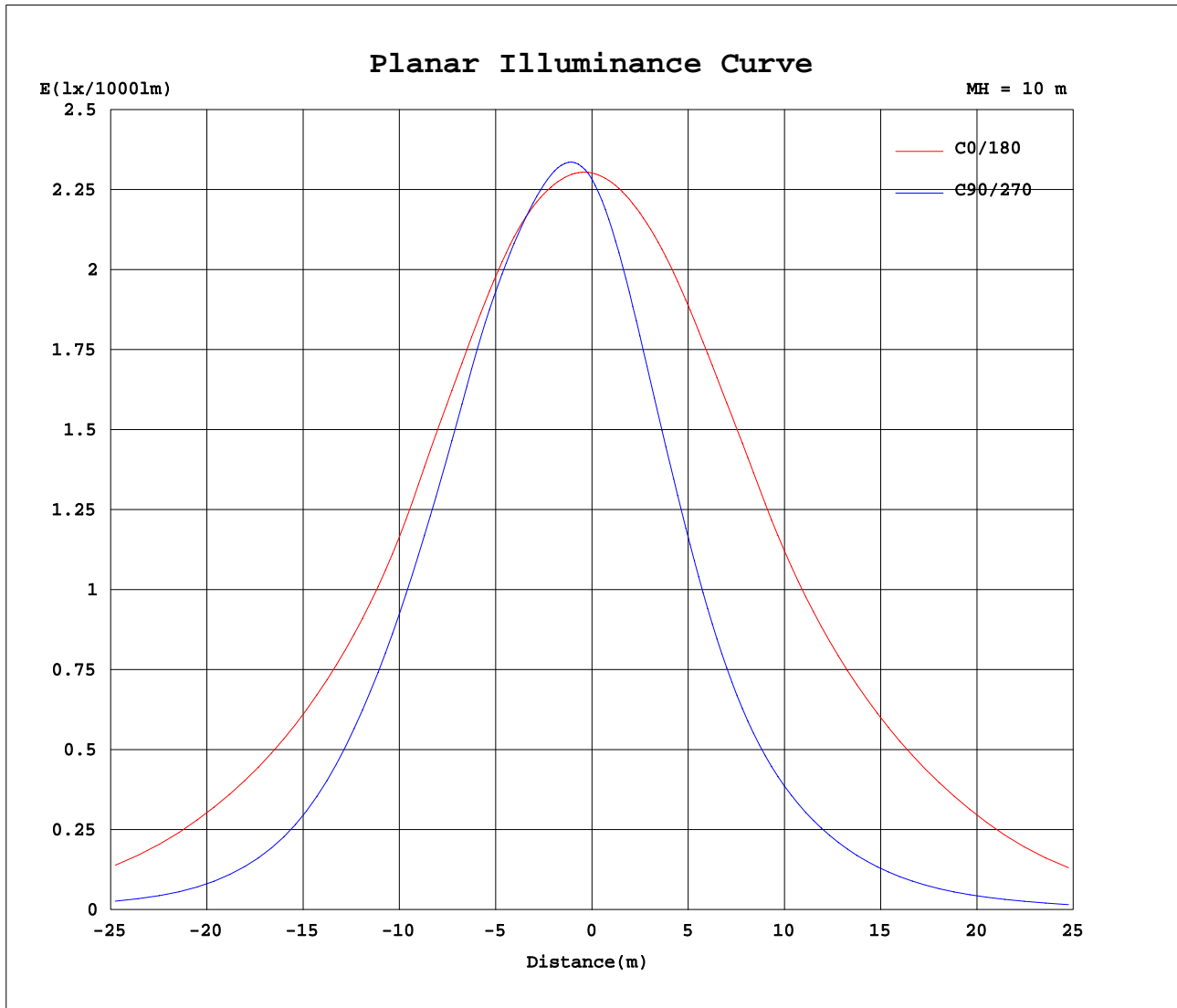
# ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-08-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 11.100m [K=1.0000]  
 Remarks:

# Planar Illuminance Curve



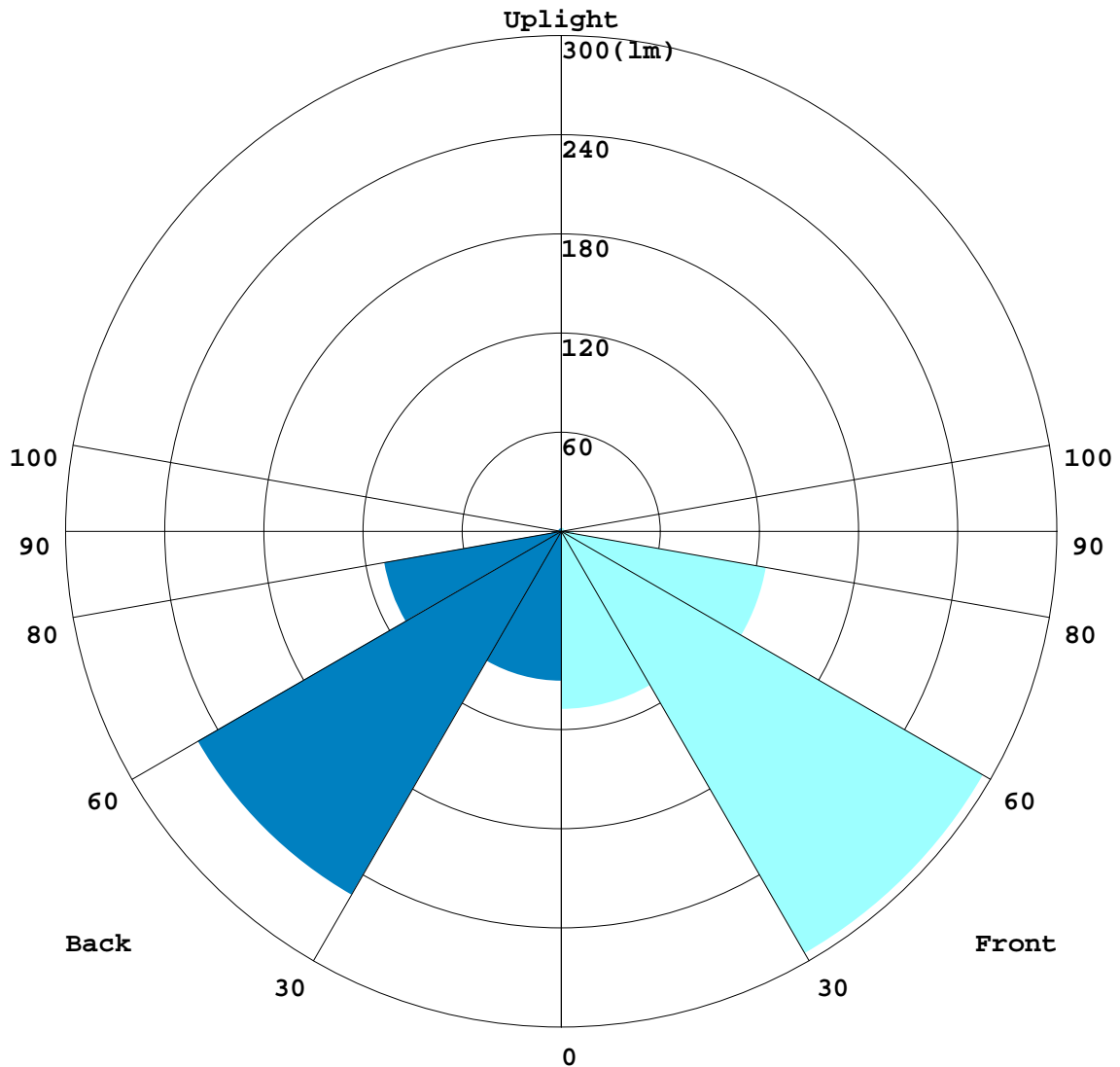
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-08-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 11.100m [K=1.0000]  
Remarks:

## LCS REPORT

Test:U:16.3V I:4.889A P:79.69W PF:1.000 Freq:0Hz Lamp Flux:11711.1x1 lm		
NAME: LD-SWL-80W	TYPE:LD-SWL-80W	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

### LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-08-27

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:11.100m [K=1.0000]  
 Remarks:

## BUG REPORT

Test:U:16.3V I:4.889A P:79.69W PF:1.000 Freq:0Hz Lamp Flux:11711.1x1 lm		
NAME: LD-SWL-80W	TYPE:LD-SWL-80W	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

### IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	107.59	10.8
FM - Front-Medium(30-60)	294.93	29.5
FH - Front-High(60-80)	125.9	12.6
FVH - Front-Very High(80-90)	7.7092	0.8
<b>Total Forward Light</b>	<b>538.8</b>	<b>53.9</b>

BL - Back-Low(0-30)	90.484	9.0
BM - Back-Medium(30-60)	254.03	25.4
BH - Back-High(60-80)	108.77	10.9
BVH - Back-Very High(80-90)	5.7501	0.6
<b>Total Back Light</b>	<b>461.2</b>	<b>46.1</b>

UL - Uplight-Low(90-100)	0.91952	0.1
UH - Uplight-High(100-180)	3.9271	0.4
<b>Total Up Light</b>	<b>4.8466</b>	<b>0.5</b>

BUG(Back,Up,Glare) Rating	B1-U1-G0
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	459.03	2.1689	461.2
Street Side	536.12	2.6777	538.8

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-08-27

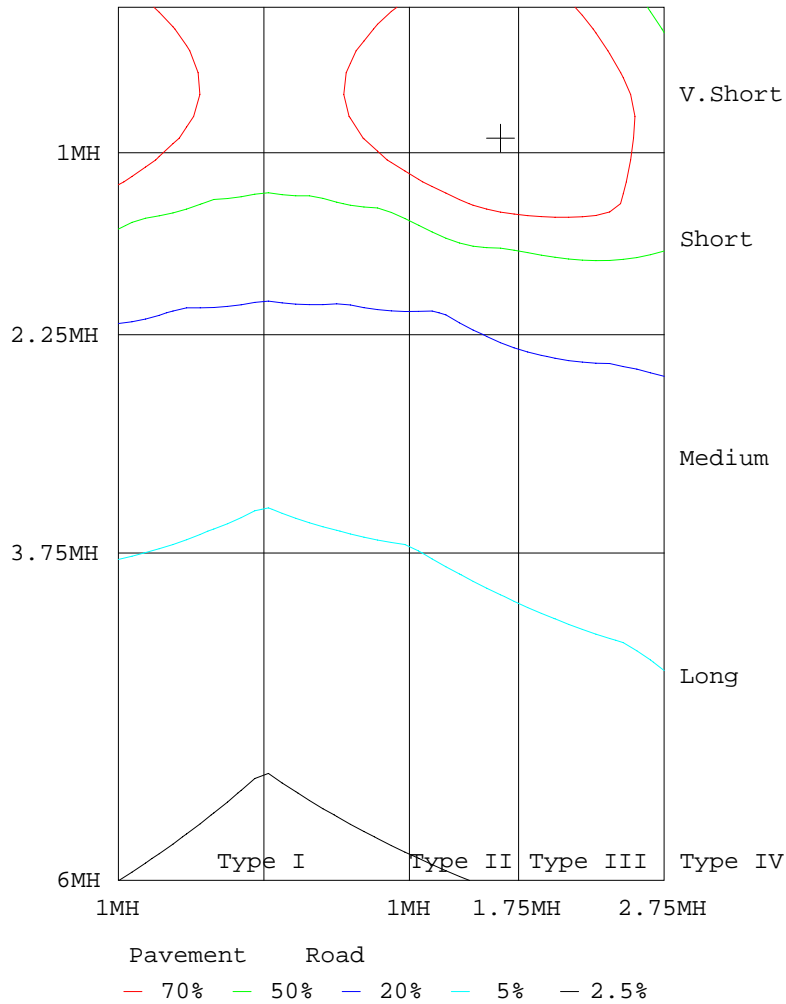
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:11.100m [K=1.0000]  
 Remarks:



## ROAD ISOCANDELA REPORT

Test:U:16.3V I:4.889A P:79.69W PF:1.000 Freq:0Hz Lamp Flux:11711.1x1 lm		
NAME: LD-SWL-80W	TYPE:LD-SWL-80W	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

### ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-08-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:11.100m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd/klm

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	230	229	230	230	229	229	228	227	227	226	226	224	230	229	230	229	229	229	228
5	233	233	236	237	237	236	236	235	235	232	231	227	231	227	226	223	221	219	218
10	238	241	245	245	245	243	243	242	242	239	238	233	234	227	222	216	212	208	206
15	247	252	257	256	254	251	249	249	250	249	248	241	240	230	220	210	202	196	194
20	259	267	272	269	265	260	258	257	260	260	260	253	249	234	219	203	191	183	181
25	272	284	289	285	277	270	267	267	271	273	275	267	260	239	217	196	180	170	167
30	287	302	308	301	291	280	275	276	283	288	293	284	273	244	215	187	167	156	153
35	303	324	330	318	300	284	277	280	290	303	312	304	288	250	210	175	153	141	137
40	319	346	350	330	304	283	274	278	294	315	332	325	304	254	201	160	138	126	123
45	329	368	370	342	304	273	261	269	294	327	354	349	317	251	186	143	122	111	109
50	343	395	393	353	294	251	235	247	283	337	378	379	333	240	164	123	104	96.5	96.0
55	356	425	418	358	266	208	188	203	252	341	406	410	349	217	138	100	85.2	79.9	80.2
60	356	441	451	342	207	148	130	143	190	322	440	425	351	178	107	75.8	64.2	60.7	61.4
65	320	421	457	296	134	87.8	74.0	84.2	119	264	438	395	309	128	74.9	51.5	44.2	42.1	42.9
70	218	334	361	182	70.8	46.8	38.1	44.7	63.1	153	323	290	200	76.2	46.4	32.8	28.5	25.0	21.0
75	97.4	180	199	90.8	38.3	24.1	18.5	23.0	34.1	75.6	164	132	87.9	43.7	27.1	20.1	18.0	11.9	11.6
80	42.5	65.5	89.5	42.7	21.3	12.9	10.1	12.2	19.1	36.1	72.0	52.7	37.8	24.7	15.0	11.6	9.72	6.78	8.42
85	13.8	26.2	28.3	16.8	11.6	7.74	5.98	7.37	10.3	13.6	22.3	19.4	9.60	11.1	4.97	5.29	4.98	4.69	6.29
90	1.57	4.32	5.10	3.42	3.06	2.87	2.17	2.77	2.74	2.52	2.67	2.13	1.40	1.39	0.86	0.50	0.32	0.19	0.50
95	0.29	0.29	0.56	0.95	1.44	1.93	2.21	1.98	1.40	0.87	0.50	0.31	0.28	0.43	0.42	0.30	0.15	0.09	0.08
100	0.43	0.34	0.44	0.70	1.08	1.42	1.84	1.50	1.10	0.72	0.46	0.36	0.43	0.59	0.58	0.45	0.26	0.16	0.14
105	0.59	0.42	0.43	0.63	0.82	0.99	1.13	1.00	0.83	0.61	0.42	0.44	0.58	0.76	0.74	0.60	0.39	0.26	0.22
110	0.72	0.51	0.36	0.54	0.65	0.80	0.88	0.81	0.68	0.56	0.39	0.55	0.72	0.88	0.85	0.73	0.53	0.38	0.33
115	0.82	0.62	0.46	0.44	0.65	0.74	0.91	0.77	0.68	0.47	0.46	0.65	0.82	0.98	0.96	0.84	0.66	0.52	0.47
120	0.89	0.70	0.55	0.37	0.57	0.75	0.94	0.81	0.61	0.39	0.55	0.72	0.90	1.04	1.06	0.92	0.78	0.70	0.89
125	0.93	0.76	0.59	0.62	0.43	0.83	1.08	0.81	0.47	0.54	0.59	0.77	0.94	1.09	1.10	0.99	0.87	0.90	1.09
130	0.96	0.80	0.69	0.63	0.79	0.65	0.68	0.63	0.64	0.62	0.63	0.78	0.96	1.10	1.09	0.99	0.96	0.91	1.04
135	0.95	0.81	0.72	0.52	0.77	0.91	0.97	0.89	0.80	0.51	0.70	0.76	0.96	1.06	1.04	0.99	0.93	1.02	0.97
140	0.90	0.80	0.72	0.71	0.47	0.76	0.93	0.85	0.47	0.58	0.71	0.74	0.91	0.99	0.98	0.98	0.92	0.93	0.96
145	0.86	0.78	0.69	0.68	0.71	0.49	0.48	0.48	0.56	0.67	0.68	0.73	0.87	0.94	0.94	0.91	0.99	1.04	0.96
150	0.83	0.76	0.69	0.66	0.67	0.82	0.83	0.80	0.66	0.67	0.68	0.72	0.84	0.90	0.90	0.91	0.85	0.90	0.95
155	0.82	0.77	0.70	0.70	0.64	0.69	0.69	0.68	0.67	0.63	0.68	0.73	0.84	0.88	0.88	0.88	0.89	0.85	0.85
160	0.82	0.77	0.74	0.71	0.71	0.66	0.64	0.64	0.66	0.67	0.71	0.74	0.83	0.87	0.87	0.88	0.88	0.88	0.88
165	0.82	0.78	0.74	0.74	0.70	0.70	0.70	0.69	0.69	0.71	0.73	0.76	0.83	0.87	0.86	0.87	0.85	0.86	0.86
170	0.82	0.78	0.77	0.76	0.74	0.74	0.72	0.71	0.71	0.73	0.75	0.77	0.82	0.85	0.86	0.86	0.85	0.86	0.86
175	0.81	0.80	0.80	0.80	0.79	0.78	0.77	0.76	0.75	0.76	0.77	0.78	0.82	0.84	0.84	0.85	0.83	0.84	0.85
180	0.83	0.83	0.83	0.83	0.82	0.82	0.82	0.80	0.80	0.80	0.79	0.79	0.83	0.83	0.83	0.83	0.83	0.82	0.82

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-08-27

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 11.100m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: cd/klm

C(DEG) γ (DEG)	285	300	315	330	345														
0	227	227	226	226	224														
5	218	219	220	222	224														
10	207	210	214	220	226														
15	195	201	208	219	229														
20	182	190	202	218	235														
25	169	179	195	217	241														
30	156	167	186	215	248														
35	141	154	175	211	255														
40	126	139	161	203	260														
45	112	123	144	188	256														
50	97.2	106	125	167	244														
55	80.9	87.5	104	142	222														
60	61.9	66.9	80.1	112	187														
65	43.3	46.6	55.8	81.5	141														
70	25.6	30.3	36.0	52.4	87.8														
75	12.1	19.1	22.3	31.3	50.3														
80	6.99	10.4	13.1	17.6	28.6														
85	5.01	5.54	6.42	6.52	15.0														
90	0.49	0.86	1.23	1.88	3.21														
95	0.09	0.13	0.26	0.40	0.41														
100	0.15	0.22	0.39	0.53	0.55														
105	0.24	0.35	0.55	0.69	0.72														
110	0.36	0.49	0.68	0.81	0.85														
115	0.49	0.62	0.79	0.91	0.94														
120	0.66	0.74	0.88	1.01	1.00														
125	0.89	0.84	0.99	1.09	1.03														
130	0.95	0.98	1.05	1.09	1.02														
135	1.10	0.98	1.06	1.05	0.99														
140	0.97	0.98	1.03	1.00	0.94														
145	1.08	1.05	0.92	0.93	0.89														
150	0.95	0.86	0.89	0.88	0.84														
155	0.87	0.87	0.88	0.85	0.82														
160	0.88	0.87	0.85	0.84	0.82														
165	0.87	0.85	0.84	0.83	0.80														
170	0.86	0.84	0.83	0.82	0.80														
175	0.85	0.83	0.82	0.80	0.79														
180	0.81	0.80	0.80	0.80	0.79														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-08-27

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 11.100m [K=1.0000]  
 Remarks:

Photometric Data Table [cd/klm]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	230.2	228.9	230.0	229.6	229.3	228.6	228.3	227.5	227.4	225.8
3.0	231.4	231.3	233.4	233.7	233.9	233.4	233.1	232.2	231.8	229.4
6.0	233.6	234.6	237.6	238.0	238.4	237.8	237.5	236.5	236.1	233.4
9.0	236.9	239.3	242.7	243.1	243.0	242.0	241.4	240.6	240.4	237.8
12.0	241.2	245.0	249.1	249.0	248.1	246.2	245.3	244.7	245.0	243.0
15.0	246.9	252.2	257.0	256.0	253.8	250.8	249.5	249.1	250.2	248.9
18.0	253.6	260.8	265.9	263.8	260.3	255.9	254.1	254.0	255.9	255.5
21.0	261.1	270.2	275.4	272.4	267.3	261.8	259.3	259.3	262.0	262.7
24.0	269.1	280.1	285.6	281.5	274.9	267.9	264.9	265.0	268.6	270.6
27.0	277.8	290.8	296.4	291.2	282.7	274.4	270.7	271.0	275.6	279.2
30.0	287.0	302.5	308.0	301.3	290.6	280.3	275.4	276.3	282.6	288.3
33.0	296.5	314.9	320.9	311.6	296.9	283.6	277.2	279.1	288.0	297.7
36.0	306.5	328.6	334.2	320.4	300.7	284.4	277.0	279.6	291.2	305.8
39.0	316.6	342.1	346.4	327.9	303.1	283.6	275.0	278.8	293.5	312.9
42.0	323.9	354.1	358.5	335.2	304.4	280.3	270.2	275.7	294.7	319.9
45.0	329.5	367.6	370.4	342.3	303.5	273.3	261.3	269.0	293.7	326.9
48.0	337.0	383.5	383.9	348.9	299.1	261.7	247.6	257.7	289.1	333.3
51.0	345.6	401.3	397.5	354.5	289.9	244.3	227.2	239.9	279.1	338.6
54.0	353.6	419.1	412.5	357.9	273.7	218.3	198.7	213.2	260.6	341.1
57.0	358.4	433.9	430.6	355.0	247.0	184.4	164.7	179.3	230.9	336.6
60.0	356.3	441.0	450.8	342.1	206.9	147.6	129.6	142.9	190.1	322.0
63.0	342.3	435.6	462.5	319.9	162.7	111.2	94.98	107.1	146.9	296.2
66.0	304.1	408.9	447.8	277.4	119.5	77.07	65.28	73.80	106.3	241.1
69.0	242.5	354.2	389.5	205.1	80.82	52.77	44.50	50.53	71.93	173.0
72.0	164.8	279.5	300.5	140.7	54.89	36.56	28.31	34.54	49.01	116.9
75.0	97.42	180.4	199.3	90.85	38.27	24.14	18.45	22.98	34.10	75.64
78.0	60.24	98.81	125.2	57.88	27.14	16.48	12.67	15.68	24.28	48.59
81.0	35.16	54.46	74.13	36.76	18.80	11.49	9.154	10.98	17.23	30.34
84.0	17.79	32.63	35.91	20.43	13.32	8.626	6.926	8.237	11.94	16.83
87.0	6.820	15.75	17.55	10.74	8.317	6.014	4.251	5.720	6.921	8.061
90.0	1.573	4.322	5.096	3.416	3.058	2.868	2.167	2.765	2.736	2.522
93.0	0.8410	0.9840	0.9918	1.398	1.789	2.115	2.171	2.147	1.686	1.176
96.0	0.3136	0.2959	0.4968	0.8316	1.301	1.791	2.134	1.849	1.292	0.8239
99.0	0.4038	0.3245	0.4433	0.7273	1.126	1.489	1.915	1.577	1.158	0.7334
102.0	0.4962	0.3664	0.4388	0.6856	0.9728	1.238	1.583	1.283	0.9680	0.6982
105.0	0.5886	0.4159	0.4339	0.6291	0.8220	0.9888	1.133	1.005	0.8290	0.6067
108.0	0.6749	0.4687	0.3696	0.5356	0.6984	0.8750	0.9569	0.8882	0.7120	0.5532
111.0	0.7437	0.5297	0.3705	0.5471	0.6511	0.7659	0.8467	0.7867	0.6824	0.5455
114.0	0.7993	0.5946	0.4095	0.4502	0.6505	0.7478	0.8073	0.7660	0.6824	0.5274
117.0	0.8488	0.6512	0.5001	0.4223	0.6212	0.7363	0.7933	0.7511	0.6802	0.4751
120.0	0.8912	0.7017	0.5481	0.3666	0.5709	0.7501	0.9368	0.8112	0.6095	0.3852
123.0	0.9220	0.7408	0.5629	0.4830	0.4766	0.7799	1.108	0.7886	0.6190	0.4735
126.0	0.9397	0.7671	0.6107	0.6088	0.5106	0.7841	1.062	0.8128	0.5223	0.6093
129.0	0.9523	0.7930	0.6795	0.6176	0.6565	0.6058	0.6690	0.5969	0.5899	0.6241
132.0	0.9551	0.8083	0.7163	0.5004	0.7828	0.6861	0.6999	0.6516	0.7867	0.5883
135.0	0.9497	0.8089	0.7247	0.5164	0.7709	0.9149	0.9738	0.8869	0.7951	0.5120
138.0	0.9200	0.8045	0.7352	0.5636	0.4686	0.8897	0.9541	0.8792	0.5319	0.5312
141.0	0.8931	0.7940	0.7095	0.7181	0.4821	0.4957	0.8375	0.5534	0.4745	0.6548
144.0	0.8700	0.7841	0.6984	0.6769	0.5705	0.4856	0.4679	0.4735	0.5014	0.6987
147.0	0.8480	0.7681	0.6983	0.6852	0.7807	0.5525	0.4948	0.5044	0.7502	0.6692
150.0	0.8331	0.7621	0.6917	0.6608	0.6736	0.8198	0.8319	0.8022	0.6632	0.6675
153.0	0.8248	0.7621	0.6972	0.6434	0.6791	0.6874	0.6882	0.6703	0.6680	0.6159
156.0	0.8221	0.7676	0.7104	0.7060	0.6275	0.6956	0.6862	0.6786	0.6632	0.6321
159.0	0.8226	0.7720	0.7318	0.7055	0.7093	0.6440	0.6346	0.6275	0.6355	0.6812
162.0	0.8177	0.7742	0.7379	0.7237	0.6904	0.7214	0.6945	0.6941	0.7021	0.6890
165.0	0.8177	0.7770	0.7412	0.7368	0.7032	0.6995	0.6964	0.6868	0.6868	0.7094
168.0	0.8177	0.7803	0.7516	0.7451	0.7236	0.7232	0.7066	0.6990	0.6977	0.7204
171.0	0.8171	0.7880	0.7698	0.7655	0.7461	0.7402	0.7269	0.7210	0.7197	0.7374
174.0	0.8133	0.7973	0.7857	0.7914	0.7811	0.7765	0.7632	0.7529	0.7494	0.7561
177.0	0.8138	0.8166	0.8186	0.8199	0.8001	0.7974	0.7840	0.7852	0.7697	0.7776
180.0	0.8259	0.8276	0.8309	0.8342	0.8232	0.8221	0.8188	0.8045	0.8012	0.7995
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	225.9	224.3	230.2	228.9	230.0	229.6	229.3	228.6	228.3	227.5
3.0	228.6	225.6	230.0	227.4	227.1	225.5	224.4	222.9	222.5	221.9
6.0	232.0	227.9	230.9	226.8	224.8	221.5	219.0	216.7	216.0	215.8
9.0	236.2	231.3	232.8	226.9	222.9	217.7	213.5	210.0	208.9	209.1
12.0	241.5	235.7	235.8	227.9	221.4	213.8	207.6	202.8	201.4	202.0
15.0	247.8	241.4	239.8	229.6	220.2	209.9	201.6	195.5	193.6	194.8
18.0	255.2	248.2	244.8	231.8	219.1	206.0	195.4	188.1	185.8	187.4
21.0	263.2	255.7	250.8	234.7	218.3	201.9	189.1	180.4	177.9	179.9
24.0	272.0	264.2	257.5	237.7	217.4	197.5	182.3	172.6	169.8	172.1
27.0	281.8	273.7	264.9	241.0	216.3	192.6	175.1	164.4	161.4	164.1
30.0	292.5	284.1	273.0	244.3	214.7	186.9	167.3	155.8	152.5	155.6

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-08-27

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 11.100m [K=1.0000]  
 Remarks:

Photometric Data Table [cd/klm]

33.0	304.4	295.9	281.9	247.7	212.3	180.2	159.0	147.0	143.4	146.9
36.0	316.4	308.5	291.4	250.8	208.7	172.3	150.3	138.1	134.4	138.1
39.0	328.0	320.8	301.0	253.3	203.6	163.3	141.4	128.9	125.5	129.0
42.0	340.5	333.5	308.9	253.5	196.1	153.4	131.9	120.0	117.1	120.3
45.0	354.5	348.7	317.0	250.5	185.9	142.6	121.9	111.3	109.3	111.7
48.0	368.2	366.6	326.4	245.4	173.6	130.9	111.6	102.6	101.5	103.1
51.0	383.2	385.6	336.5	236.5	159.5	118.5	100.8	93.45	93.10	94.20
54.0	399.9	404.4	346.2	222.6	143.6	105.0	89.23	83.44	83.64	84.36
57.0	419.3	419.1	352.7	203.0	125.8	90.76	76.95	72.43	72.95	73.57
60.0	440.1	425.0	351.3	178.2	107.0	75.76	64.21	60.70	61.40	61.94
63.0	449.0	415.8	335.1	149.3	87.57	60.83	51.83	49.27	50.10	50.48
66.0	424.6	380.2	291.5	117.2	68.76	47.27	40.66	38.74	39.34	39.86
69.0	352.4	316.8	225.5	85.22	51.51	36.01	31.43	28.85	25.23	29.73
72.0	257.2	226.0	144.3	60.84	37.58	27.17	23.80	18.15	15.77	18.39
75.0	164.3	132.0	87.93	43.70	27.07	20.13	18.04	11.89	11.60	12.07
78.0	103.5	74.57	53.93	31.24	19.37	14.63	12.80	8.169	9.048	8.393
81.0	56.85	44.83	30.66	21.92	12.27	10.01	8.447	6.244	8.124	6.428
84.0	27.98	25.38	13.33	13.88	13.88	6.278	6.338	5.743	5.251	5.467
87.0	12.68	9.903	4.154	5.923	3.165	3.238	3.087	3.136	3.845	3.620
90.0	2.671	2.133	1.397	1.386	0.8628	0.5033	0.3158	0.1914	0.5005	0.4927
93.0	0.6321	0.3046	0.2823	0.4119	0.4145	0.2652	0.1217	0.0786	0.0732	0.0748
96.0	0.4754	0.3163	0.3066	0.4594	0.4469	0.3258	0.1707	0.1027	0.0925	0.0956
99.0	0.4630	0.3487	0.3962	0.5584	0.5425	0.4187	0.2345	0.1423	0.1250	0.1329
102.0	0.4543	0.3999	0.4886	0.6629	0.6459	0.5089	0.3099	0.1945	0.1695	0.1824
105.0	0.4192	0.4426	0.5827	0.7581	0.7355	0.5991	0.3907	0.2583	0.2246	0.2429
108.0	0.3793	0.5105	0.6679	0.8345	0.8053	0.6816	0.4732	0.3302	0.2884	0.3121
111.0	0.4008	0.5726	0.7403	0.8994	0.8690	0.7586	0.5540	0.4029	0.3554	0.3853
114.0	0.4436	0.6265	0.8008	0.9572	0.9329	0.8241	0.6332	0.4869	0.4244	0.4622
117.0	0.5066	0.6803	0.8579	1.010	1.005	0.8774	0.7173	0.5870	0.6750	0.5584
120.0	0.5498	0.7193	0.8964	1.045	1.057	0.9225	0.7821	0.7018	0.8872	0.6606
123.0	0.5795	0.7523	0.9261	1.076	1.086	0.9606	0.8267	0.8283	1.065	0.7876
126.0	0.5977	0.7715	0.9469	1.094	1.097	1.008	0.8887	0.9094	1.093	0.9306
129.0	0.6103	0.7759	0.9639	1.101	1.093	1.011	0.9411	0.9426	1.080	0.9795
132.0	0.6712	0.7720	0.9645	1.090	1.081	0.9820	1.001	0.9339	0.9448	0.9808
135.0	0.6972	0.7588	0.9556	1.058	1.041	0.9865	0.9331	1.020	0.9683	1.098
138.0	0.7060	0.7428	0.9319	1.011	1.002	1.011	0.9186	0.9304	0.9846	0.9722
141.0	0.7203	0.7330	0.9044	0.9767	0.9786	0.9821	0.9209	0.9309	0.9595	0.9733
144.0	0.6778	0.7313	0.8781	0.9503	0.9485	0.9438	0.9936	0.9140	0.9579	0.9847
147.0	0.6692	0.7209	0.8605	0.9250	0.9308	0.9024	0.9171	1.049	1.066	1.074
150.0	0.6796	0.7198	0.8440	0.9035	0.8957	0.9139	0.8485	0.9017	0.9456	0.9497
153.0	0.6748	0.7231	0.8353	0.8892	0.8831	0.8804	0.8515	0.8402	0.8761	0.8573
156.0	0.6812	0.7280	0.8347	0.8809	0.8754	0.8803	0.8628	0.8725	0.8633	0.9157
159.0	0.6988	0.7347	0.8330	0.8710	0.8688	0.8743	0.8793	0.8727	0.8749	0.8732
162.0	0.7230	0.7424	0.8298	0.8677	0.8716	0.8776	0.8622	0.8771	0.8935	0.8853
165.0	0.7324	0.7561	0.8286	0.8666	0.8649	0.8721	0.8528	0.8567	0.8610	0.8672
168.0	0.7412	0.7605	0.8270	0.8595	0.8627	0.8633	0.8474	0.8496	0.8557	0.8589
171.0	0.7522	0.7699	0.8204	0.8468	0.8533	0.8573	0.8468	0.8567	0.8572	0.8638
174.0	0.7676	0.7781	0.8155	0.8375	0.8423	0.8496	0.8347	0.8474	0.8463	0.8496
177.0	0.7830	0.7830	0.8177	0.8314	0.8325	0.8391	0.8275	0.8325	0.8329	0.8282
180.0	0.7946	0.7929	0.8270	0.8292	0.8320	0.8320	0.8270	0.8248	0.8210	0.8072
G/C	300.0	315.0	330.0	345.0						
0.0	227.4	225.8	225.9	224.3						
3.0	222.7	222.1	223.7	223.7						
6.0	217.6	218.6	221.9	223.9						
9.0	212.2	215.0	220.6	225.0						
12.0	206.5	211.5	219.7	226.7						
15.0	200.6	207.9	219.1	229.2						
18.0	194.5	204.2	218.5	232.4						
21.0	188.2	200.3	218.1	236.0						
24.0	181.6	196.1	217.6	240.1						
27.0	174.6	191.3	216.7	244.2						
30.0	167.1	185.7	215.3	248.4						
33.0	159.2	179.4	213.2	252.7						
36.0	150.8	172.3	209.9	256.3						
39.0	142.0	164.0	205.1	259.4						
42.0	132.7	154.4	197.7	260.0						
45.0	123.0	143.8	187.6	255.9						
48.0	113.1	132.8	175.6	249.4						
51.0	102.6	121.0	162.1	240.4						
54.0	91.38	108.2	146.9	227.5						
57.0	79.40	94.55	130.2	210.0						
60.0	66.86	80.07	112.4	187.0						
63.0	54.42	65.29	93.90	159.5						
66.0	43.04	51.39	75.41	129.9						

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-08-27

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 11.100m [K=1.0000]  
 Remarks:

Photometric Data Table [cd/klm]

69.0	33.32	39.40	57.92	97.75
72.0	25.27	29.85	42.61	70.38
75.0	19.08	22.32	31.25	50.27
78.0	13.70	16.37	22.19	36.07
81.0	9.119	11.53	15.52	25.37
84.0	6.180	7.476	8.241	17.45
87.0	3.916	4.524	4.122	9.446
90.0	0.8571	1.227	1.877	3.215
93.0	0.1171	0.3098	0.5656	0.8521
96.0	0.1459	0.2786	0.4171	0.4293
99.0	0.2020	0.3654	0.4952	0.5232
102.0	0.2725	0.4551	0.5948	0.6162
105.0	0.3506	0.5453	0.6882	0.7157
108.0	0.4331	0.6288	0.7679	0.8009
111.0	0.5144	0.7036	0.8344	0.8664
114.0	0.5947	0.7702	0.8916	0.9193
117.0	0.6728	0.8307	0.9581	0.9660
120.0	0.7359	0.8840	1.014	1.002
123.0	0.7910	0.9686	1.067	1.021
126.0	0.8791	1.026	1.097	1.028
129.0	0.9722	1.046	1.093	1.027
132.0	1.040	1.060	1.077	1.013
135.0	0.9837	1.064	1.047	0.9893
138.0	0.9865	1.080	1.013	0.9558
141.0	0.9918	1.022	0.9787	0.9272
144.0	1.062	0.9376	0.9462	0.8980
147.0	0.9573	0.9052	0.9116	0.8683
150.0	0.8633	0.8861	0.8786	0.8447
153.0	0.8677	0.8820	0.8599	0.8314
156.0	0.8743	0.8694	0.8446	0.8193
159.0	0.8808	0.8567	0.8413	0.8182
162.0	0.8600	0.8468	0.8275	0.8117
165.0	0.8534	0.8446	0.8254	0.8028
168.0	0.8490	0.8391	0.8188	0.7995
171.0	0.8407	0.8320	0.8121	0.7962
174.0	0.8363	0.8248	0.8034	0.7913
177.0	0.8198	0.8171	0.8006	0.7907
180.0	0.8017	0.8028	0.7962	0.7940

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-08-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 11.100m [K=1.0000]  
 Remarks: