

Specification

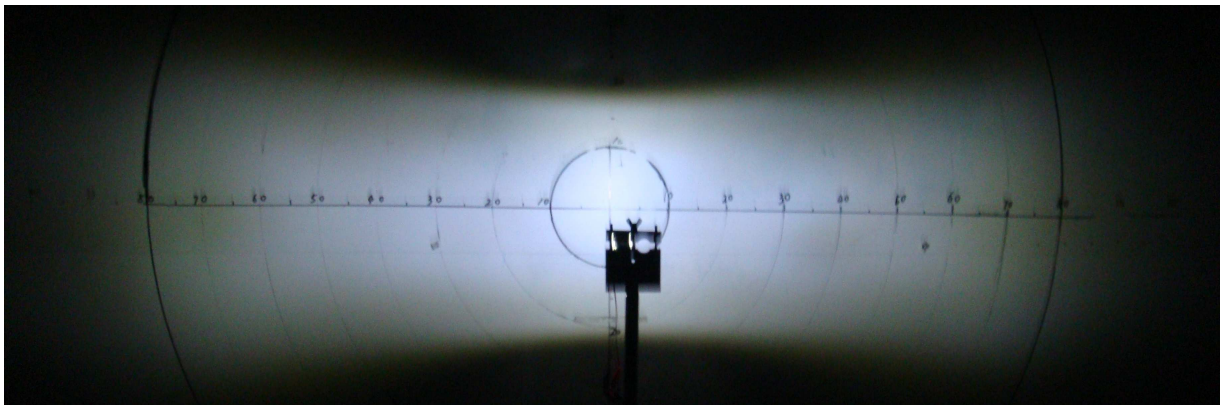
Model HX-73

Lamps lens matching EDIXEON high-power led,the road illumination distribution.

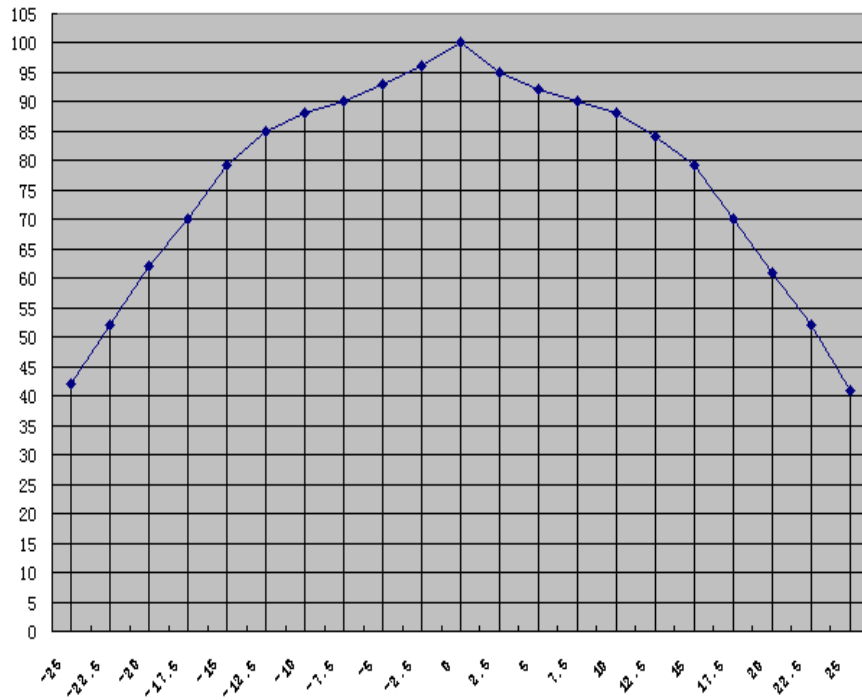
	-25	-23	-20	-18	-15	-13	-10	-8	-5	-3	0	2.5	5	7.5	10	13	15	18	20	23	25	
6.3											28											
5											68											
3.8											80											
2.5											86											
1.3											92											
0	42	52	62	70	79	85	88	90	93	96	100	95	92	90	88	84	79	70	61	52	41	
-1											92											
-3											86											
-4											80											
-5											67											
-6											27											

1. Set lights Height 10M
2. The distance unit is the form M
3. Figures in the table relative percentage intensity
4. For LED : Luxeon Edixeon Seoul Brightlux

Spot Photo



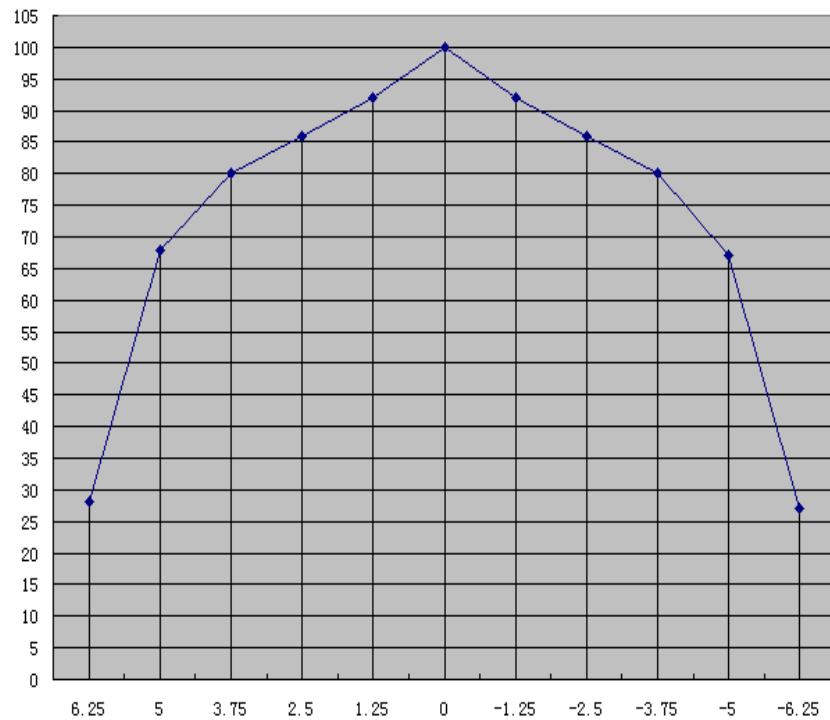
Road length of the light intensity distribution map



series 1

75%	intensity	32M
50%	intensity	46M
40%	intensity	50M

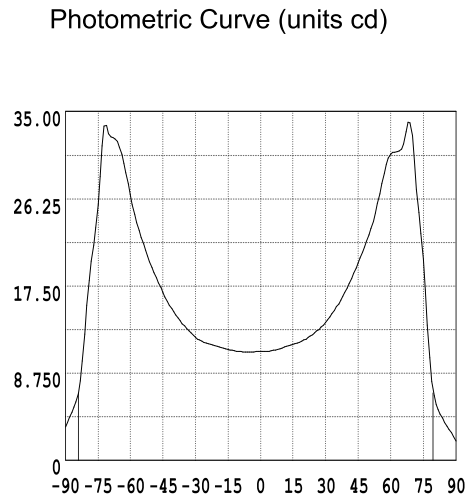
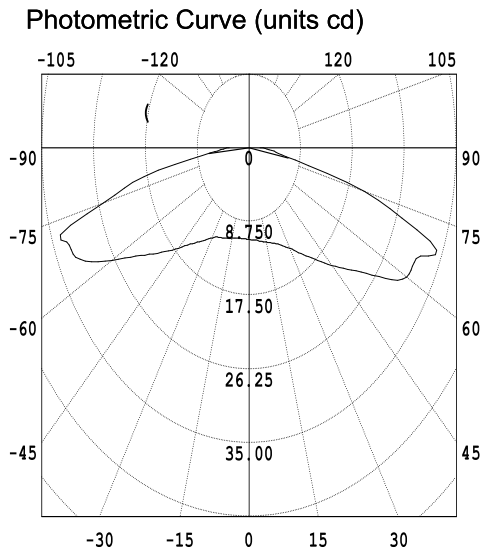
Road width of the light intensity distribution map



series 1

75%	intensity	8M
50%	intensity	11M

Acceptance of road length spherical light intensity distribution map



Light intensity distribution of data (Deg °, Intensity cd)

Deg	Intensity	Deg	Intensity	Deg	Intensity	Deg	Intensity	Deg	Intensity	Deg	Intensity
-90.0	3.383	-58.0	24.70	-26.0	11.86	6.0	11.02	38.0	16.46	70.0	32.61
-88.0	4.325	-56.0	23.07	-24.0	11.71	8.0	11.14	40.0	17.30	72.0	27.18
-86.0	5.342	-54.0	21.72	-22.0	11.58	10.0	11.29	42.0	18.24	74.0	22.79
-84.0	6.654	-52.0	20.50	-20.0	11.46	12.0	11.44	44.0	19.25	76.0	17.11
-82.0	9.968	-50.0	19.37	-18.0	11.33	14.0	11.58	46.0	20.34	78.0	10.29
-80.0	15.55	-48.0	18.32	-16.0	11.20	16.0	11.72	48.0	21.45	80.0	6.470
-78.0	20.03	-46.0	17.32	-14.0	11.07	18.0	11.88	50.0	22.62	82.0	5.082
-76.0	23.32	-44.0	16.40	-12.0	10.98	20.0	12.08	52.0	24.00	84.0	4.213
-74.0	28.48	-42.0	15.56	-10.0	10.92	22.0	12.33	54.0	25.76	86.0	3.432
-72.0	33.56	-40.0	14.89	-8.0	10.89	24.0	12.61	56.0	27.79	88.0	2.769
-70.0	32.82	-38.0	14.27	-6.0	10.89	26.0	12.95	58.0	29.68	90.0	1.901
-68.0	32.39	-36.0	13.72	-4.0	10.89	28.0	13.35	60.0	30.75		
-66.0	32.02	-34.0	13.22	-2.0	10.90	30.0	13.83	62.0	30.96		
-64.0	30.72	-32.0	12.78	0.0	10.91	32.0	14.38	64.0	31.09		
-62.0	28.89	-30.0	12.36	2.0	10.94	34.0	15.05	66.0	31.77		
-60.0	26.72	-28.0	12.06	4.0	10.97	36.0	15.73	68.0	33.94		

Electrical Parameters

Current	$I_f = 350.0\text{mA}$
Voltage	$V_f = 3.632\text{V}$
Electric power	$P = 1272\text{mW}$
Reverse leakage current	$I_r = 101.7\mu\text{A}$ (Bias $V_r = 0.7732\text{V}$)
Reverse Voltage	$V_z = 0.5978\text{V}$ (Bias $I_r = 2.002\mu\text{A}$)

Optical parameters (CIE A):

Total Luminous Flux $\phi_t = 116.7 \text{ lm}$

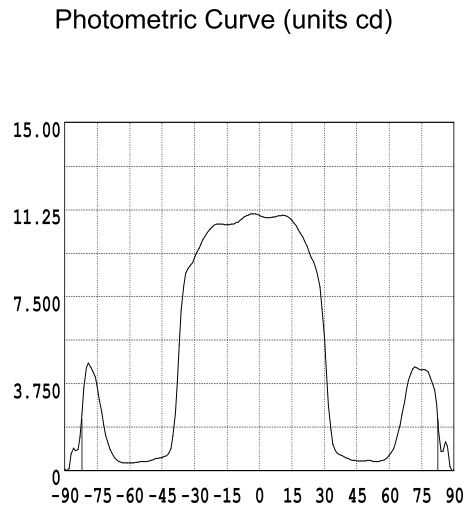
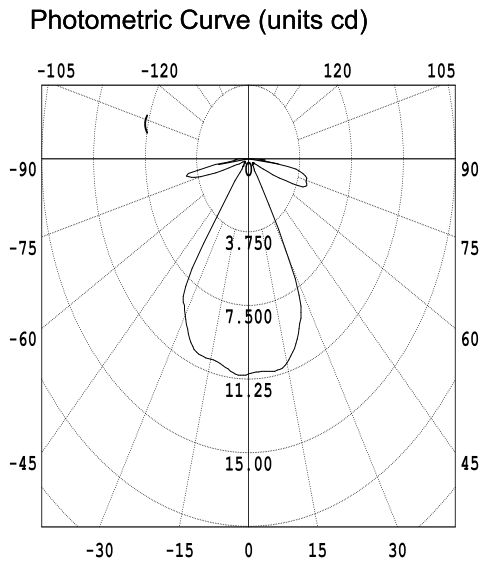
Luminous Efficiency $Eff=91.81 \text{ lm/W}$

The average light intensity spread angle $\theta(25\%): 161.3^\circ \theta(50\%): 155.4^\circ \theta(75\%): 147.7^\circ \theta(20\%): 163.5^\circ$

Maximum intensity $I_{max} = 33.94 \text{ cd} (C=0.0^\circ, G=68.0^\circ)$

C0-180 Plane $I_{max} = 33.94 \text{ cd} (G=68.0^\circ) I_o = 10.91 \text{ cd}$

Pavement width direction to receive light intensity distribution spherical



Light intensity distribution of data (Deg °, Intensity cd)

Deg	Intensity	Deg	Intensity	Deg	Intensity	Deg	Intensity	Deg	Intensity	Deg	Intensity
-90.0	0.0513	-58.0	0.3539	-26.0	9.959	6.0	10.92	38.0	0.6607	70.0	4.208
-88.0	0.0709	-56.0	0.3651	-24.0	10.28	8.0	10.96	40.0	0.5615	72.0	4.458
-86.0	0.9718	-54.0	0.3835	-22.0	10.50	10.0	10.99	42.0	0.4704	74.0	4.359
-84.0	0.9271	-52.0	0.3975	-20.0	10.61	12.0	10.99	44.0	0.4277	76.0	4.365
-82.0	2.430	-50.0	0.4335	-18.0	10.62	14.0	10.88	46.0	0.4131	78.0	4.244
-80.0	4.439	-48.0	0.5102	-16.0	10.60	16.0	10.66	48.0	0.4165	80.0	3.737
-78.0	4.439	-46.0	0.5479	-14.0	10.60	18.0	10.39	50.0	0.4238	82.0	2.890
-76.0	4.030	-44.0	0.5923	-12.0	10.64	20.0	10.07	52.0	0.4156	84.0	0.8363
-74.0	3.065	-42.0	0.7172	-10.0	10.72	22.0	9.655	54.0	0.3924	86.0	1.238
-72.0	1.964	-40.0	1.494	-8.0	10.85	24.0	9.211	56.0	0.4078	88.0	0.1549
-70.0	1.160	-38.0	3.822	-6.0	10.97	26.0	8.759	58.0	0.4833	90.0	0.0221
-68.0	0.7022	-36.0	6.929	-4.0	11.05	28.0	7.892	60.0	0.6605		
-66.0	0.4661	-34.0	8.490	-2.0	11.06	30.0	5.720	62.0	0.9585		
-64.0	0.3551	-32.0	8.841	0.0	11.00	32.0	2.809	64.0	1.558		
-62.0	0.3242	-30.0	9.178	2.0	10.93	34.0	1.143	66.0	2.445		
-60.0	0.3344	-28.0	9.586	4.0	10.90	36.0	0.7556	68.0	3.461		

Electrical Parameters

Current	$I_f = 350.0\text{mA}$
Voltage	$V_f = 3.610\text{V}$
Electric power	$P = 1264\text{mW}$
Reverse leakage current	$I_r = 101.7\mu\text{A}$ (Bias $V_r = 0.7736\text{V}$)
Reverse Voltage	$V_z = 0.5978\text{V}$ (Bias $I_r = 1.934\mu\text{A}$)

Optical parameters(CIE A) :

Total Luminous Flux $\phi_t = 18.53\text{lm}$

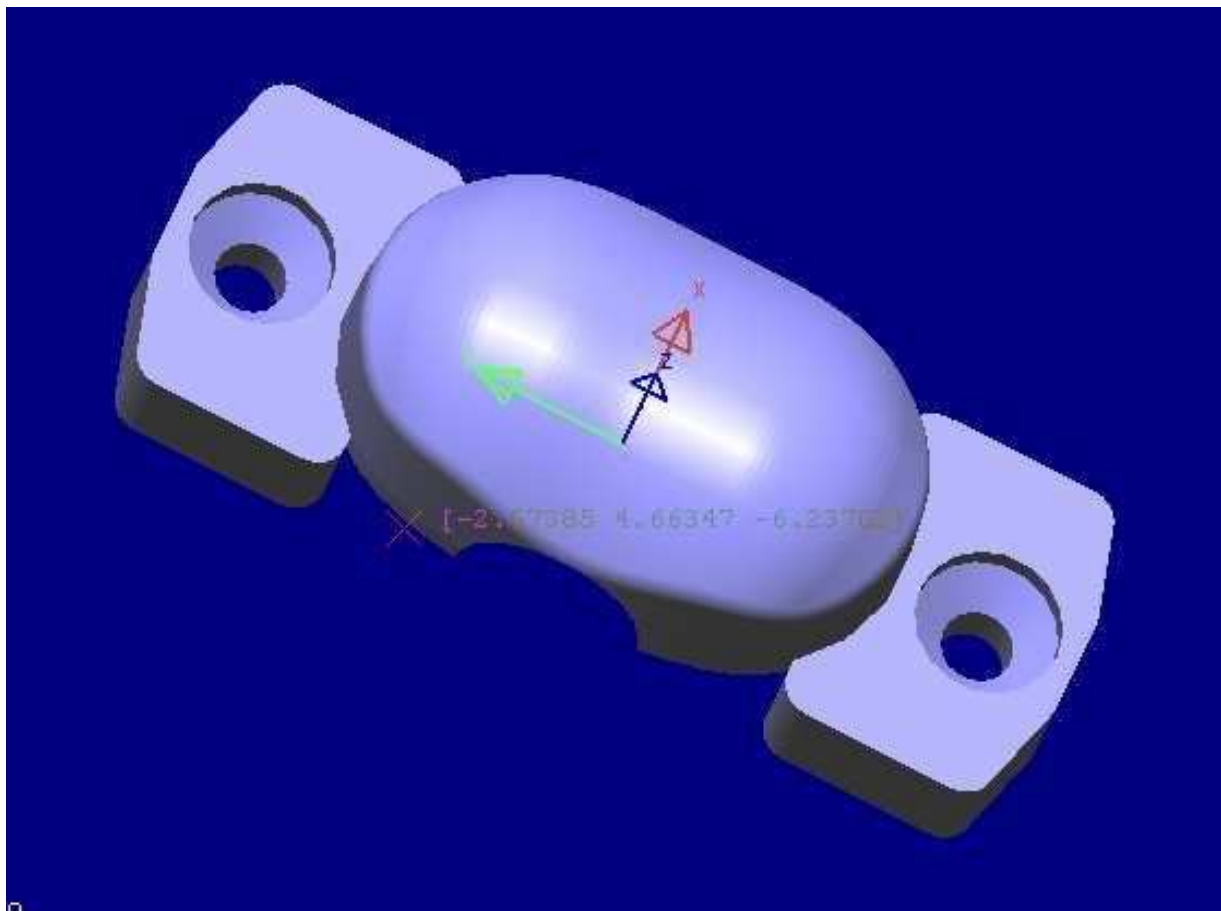
Luminous Efficiency $Eff = 14.66\text{lm/W}$

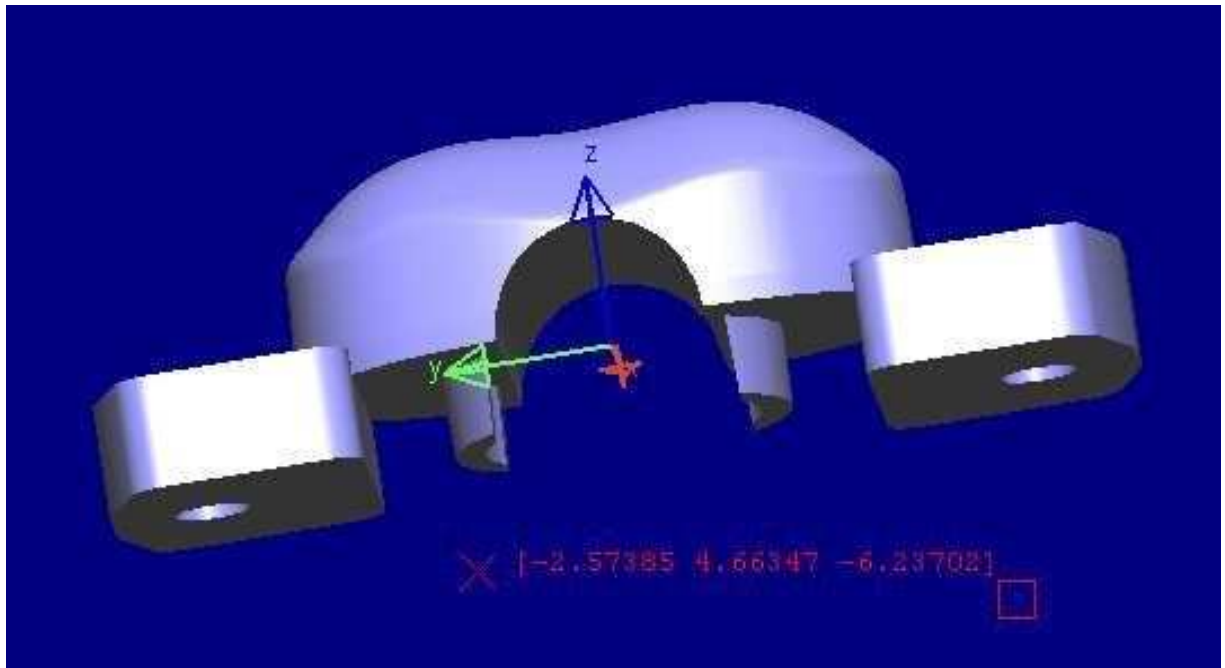
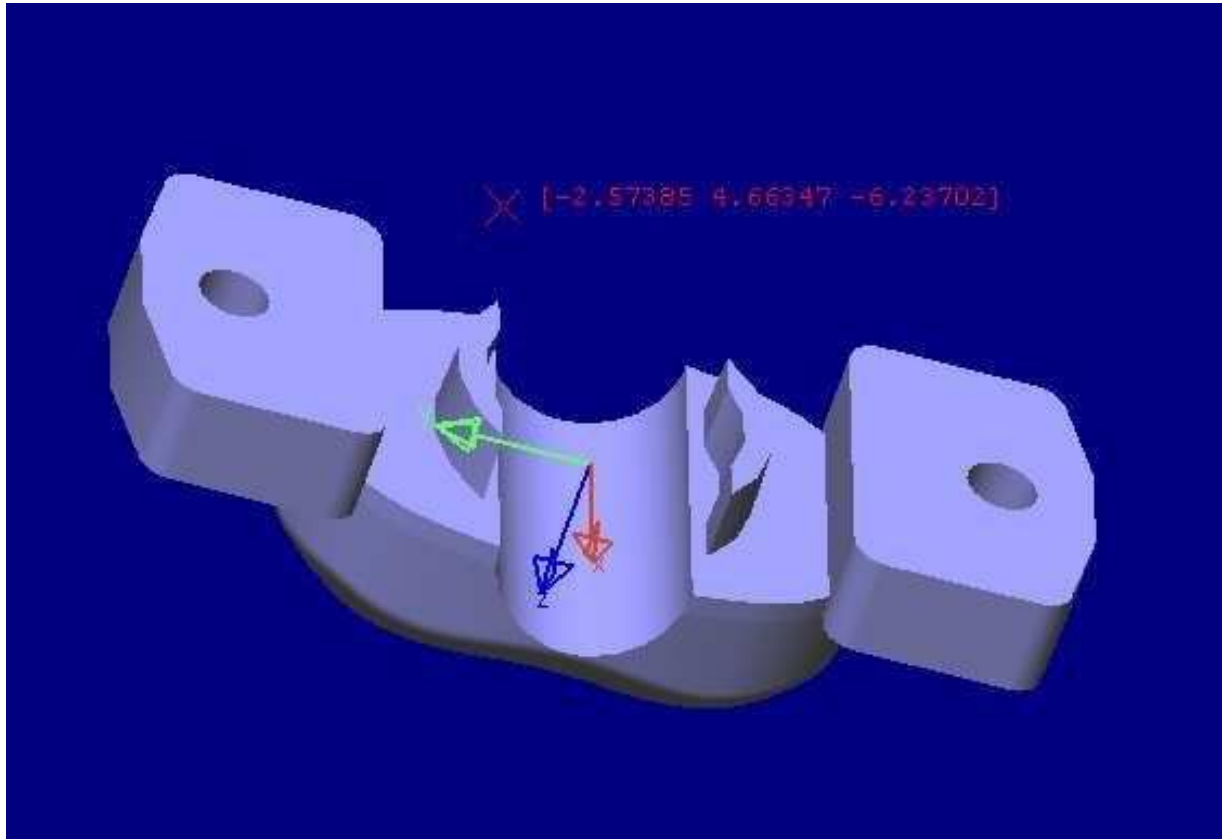
The average light intensity spread angle $\theta(25\%) : 163.8^\circ$ $\theta(50\%) : 67.0^\circ$ $\theta(75\%) : 61.7^\circ$ $\theta(20\%) : 164.6^\circ$

Maximum intensity $I_{max} = 11.06\text{cd}$ ($C = 0.0^\circ, G = -2.0^\circ$)

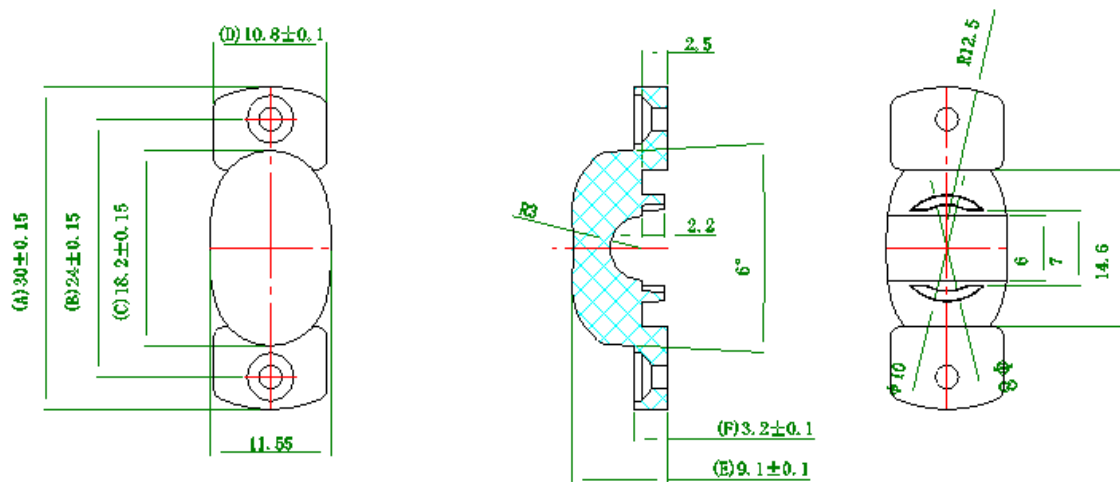
$C0-180$ Plane $I_{max} = 11.06\text{cd}$ ($G = -2.0^\circ$) $I_o = 11.00\text{cd}$

Product 3D map





Product 2D map



Lens Feature Description

- 1.LED lens angle:67X155 Deg
- 2.For length / height, the largest up to 5:1 (the arrangement of space and the street lights installed height ratio)

Benefits

1. Product relatively small form factor for easy installation and the arrangement of high-power LED
2. A single, good uniformity of street pavement

Shortcomings

1. Products on both sides of edges, some light leakage