

# ORBIT I

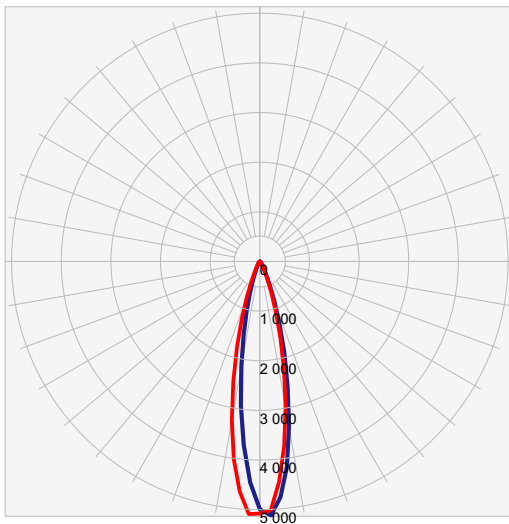
<b>Test Number</b>	2012-1211-RGBW25
<b>LED</b>	6 x RGBW in 1
<b>Beam Angle</b>	25 Degree
<b>Input Power(W)</b>	23
<b>Total Lumens(Lm)</b>	991.11±2.5%
<b>Lumens Efficacy(Lm/W)</b>	≈43.091



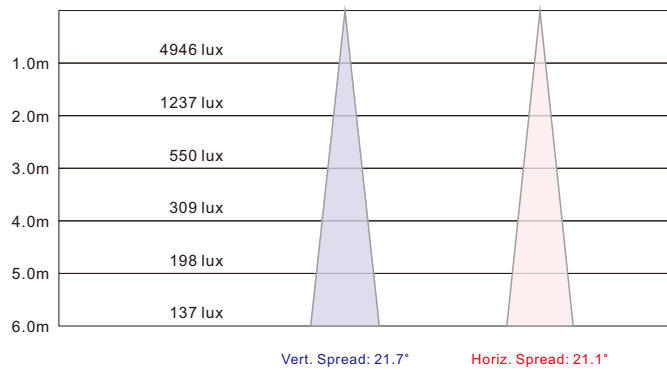
All results in accordance to TM-79 IESNA Technical Memorandum on Light Emitting Diode (LED) Sources and Systems.  
 CIE 70 The Measurement of Absolute Luminous Intensity Distributions.  
 CIE84-1989 The Measurement of Luminous Flux.  
 CIE63-1984 The Spectroradiometric Measurement of Light Sources.

## PHOTOMETRIC SPECIFICATIONS

Candle Power Distribution



Illuminance at a Distance



### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance:20%

RCC% :	80				70				50				30				10				0			
RW% :	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0	50	30	20	0		
RCR : 0	1.18	1.18	1.18	1.18	1.15	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99						
1	1.13	1.11	1.09	1.07	1.11	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96	.94						
2	1.09	1.05	1.02	.99	1.07	1.03	1.00	.98	1.00	.98	.96	.97	.96	.94	.95	.93	.92	.90						
3	1.05	1.00	.96	.93	1.03	.99	.95	.92	.96	.93	.91	.94	.92	.90	.92	.90	.88	.87						
4	1.02	.96	.92	.88	1.00	.95	.91	.88	.93	.89	.87	.91	.88	.86	.89	.87	.85	.84						
5	.98	.92	.88	.84	.97	.91	.87	.84	.90	.86	.83	.88	.85	.83	.87	.84	.82	.81						
6	.95	.89	.84	.81	.94	.88	.84	.81	.87	.83	.80	.85	.82	.80	.84	.81	.79	.78						
7	.92	.86	.81	.78	.91	.85	.81	.78	.84	.80	.78	.82	.80	.77	.82	.79	.77	.76						
8	.90	.83	.79	.63	.89	.82	.78	.75	.81	.78	.75	.81	.77	.75	.80	.77	.75	.74						
9	.87	.80	.76	.73	.86	.80	.76	.73	.79	.76	.73	.78	.75	.73	.78	.75	.73	.72						
10	.85	.78	.74	.71	.84	.78	.74	.71	.77	.73	.71	.76	.73	.71	.76	.73	.71	.70						

# ORBIT I

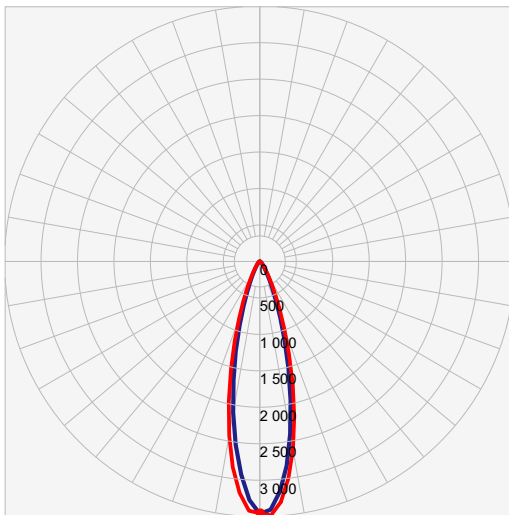
<b>Test Number</b>	2012-1212-RGBW40
<b>LED</b>	6 x RGBW in 1
<b>Beam Angle</b>	40 Degree
<b>Input Power(W)</b>	22
<b>Total Lumens(Lm)</b>	913.99±2.5%
<b>Lumens Efficacy(Lm/W)</b>	≈41.545



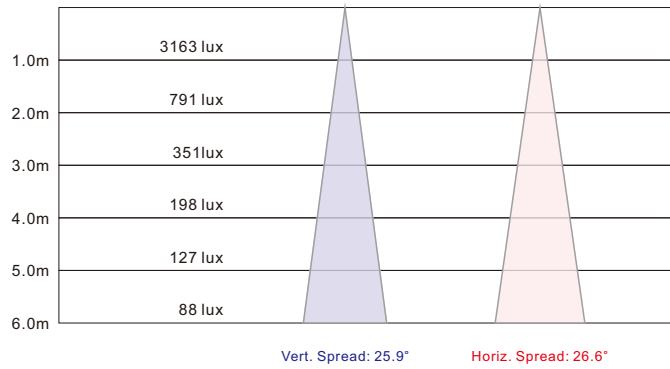
All results in accordance to TM-79 IESNA Technical Memorandum on Light Emitting Diode (LED) Sources and Systems.  
 CIE 70 The Measurement of Absolute Luminous Intensity Distributions.  
 CIE84-1989 The Measurement of Luminous Flux.  
 CIE63-1984 The Spectroradiometric Measurement of Light Sources.

## PHOTOMETRIC SPECIFICATIONS

Candle Power Distribution



Illuminance at a Distance



### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC% :	80				70				50				30				10				0											
RW% :	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	50	30	20	50	30	20	50	30	20	50	30	20	50	30	20
RCR : 0	1.17	1.17	1.17	1.17	1.15	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99														
1	1.13	1.10	1.08	1.06	1.10	1.08	1.06	1.04	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.95	.93														
2	1.08	1.04	1.00	.97	1.06	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.92	.90	.89														
3	1.04	.98	.94	.90	1.02	.97	.93	.90	.94	.91	.88	.92	.89	.87	.90	.88	.86	.84														
4	1.00	.93	.89	.85	.98	.92	.88	.85	.90	.86	.84	.88	.85	.83	.86	.84	.82	.80														
5	.96	.89	.84	.80	.94	.88	.84	.80	.86	.82	.79	.85	.81	.79	.83	.80	.78	.77														
6	.92	.85	.80	.77	.91	.84	.80	.76	.83	.79	.76	.82	.78	.75	.80	.77	.75	.74														
7	.89	.82	.77	.73	.88	.81	.76	.73	.80	.76	.73	.79	.75	.72	.78	.75	.72	.71														
8	.86	.78	.74	.70	.85	.78	.73	.70	.77	.73	.70	.76	.72	.70	.75	.72	.69	.68														
9	.83	.76	.71	.68	.82	.85	.71	.68	.74	.70	.67	.74	.70	.67	.73	.69	.67	.66														
10	.81	.73	.68	.65	.80	.73	.68	.65	.72	.68	.65	.71	.68	.65	.71	.67	.65	.64														

# ORBIT I

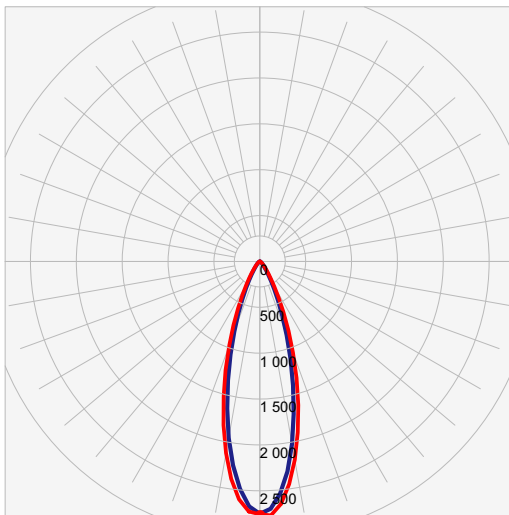
<b>Test Number</b>	2012-1211-RGBW60
<b>LED</b>	6 x RGBW in 1
<b>Beam Angle</b>	60 Degree
<b>Input Power(W)</b>	21
<b>Total Lumens(Lm)</b>	939.81±2.5%
<b>Lumens Efficacy(Lm/W)</b>	≈44.752



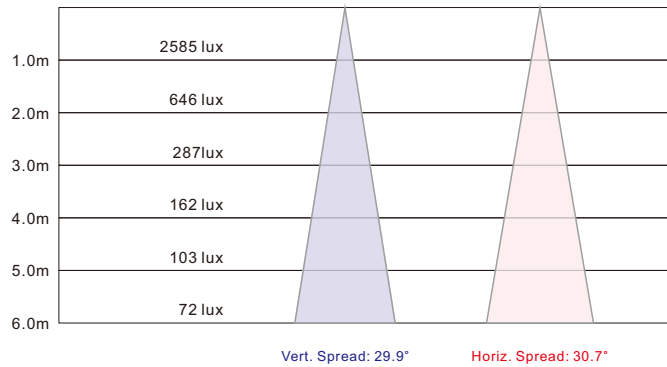
All results in accordance to TM-79 IESNA Technical Memorandum on Light Emitting Diode (LED) Sources and Systems.  
 CIE 70 The Measurement of Absolute Luminous Intensity Distributions.  
 CIE84-1989 The Measurement of Luminous Flux.  
 CIE63-1984 The Spectroradiometric Measurement of Light Sources.

## PHOTOMETRIC SPECIFICATIONS

Candle Power Distribution



Illuminance at a Distance



Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance:20%

RCC% :	80				70				50				30				10				0			
RW% :	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0						
RCR :	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10		
0	1.17	1.17	1.17	1.17	1.15	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99						
1	1.13	1.10	1.08	1.06	1.10	1.08	1.06	1.04	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.95	.93						
2	1.08	1.03	1.00	.97	1.06	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.91	.90	.88						
3	1.03	.98	.93	.90	1.01	.96	.92	.89	.94	.90	.88	.91	.89	.86	.89	.87	.85	.84						
4	.99	.93	.89	.84	.97	.91	.87	.84	.89	.86	.83	.87	.84	.82	.86	.83	.81	.79						
5	.95	.88	.83	.79	.94	.87	.82	.79	.85	.81	.78	.84	.80	.78	.82	.79	.77	.76						
6	.91	.84	.79	.75	.90	.83	.78	.75	.82	.78	.74	.80	.77	.74	.79	.76	.73	.72						
7	.88	.80	.75	.72	.87	.80	.75	.71	.78	.74	.71	.77	.73	.71	.76	.73	.70	.69						
8	.85	.77	.72	.68	.84	.76	.71	.68	.75	.71	.68	.74	.70	.68	.73	.70	.67	.66						
9	.82	.74	.69	.65	.81	.73	.69	.65	.72	.68	.65	.72	.68	.65	.71	.67	.65	.64						
10	.79	.71	.66	.63	.78	.70	.66	.63	.70	.65	.63	.69	.65	.62	.68	.65	.62	.61						