

## **Indoor Distribution Test Report**

# **Spectrum Lighting Inc.**

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## **Spectrum Lighting Photometric Lab**

### **Luminaire**

IF03RMx xx DWDD1010 DLWFGPMW

Nom 3" diam Infinium, dim to warm 10L emitter - Wide flood optic, No lens

### **Test Number**

SP-00942\_M-10L

### **Test Date**

5/1/2019

The results contained in this report pertain only to this IES file.

### Summary of Results

#### Power

Input Watts	11.3 W
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#### Lumen Output

Output Lumens	581
Efficacy	51.43 lm/W

#### Luminous Dimensions

0° - 180° Size	-0.22
90° - 270° Size	-0.22
Height	0

#### Spacing Criterion

Two luminaires, plane 0°	0.9
Two luminaires, plane 90°	0.9
Four luminaires	0.83

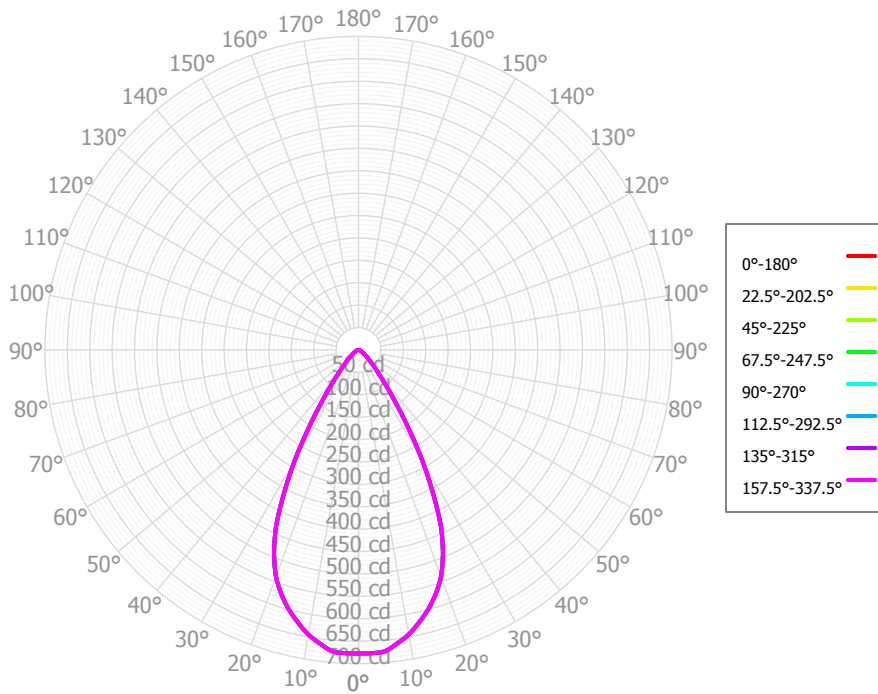
#### Full Beam Angle

0° - 180°	56°
90° - 270°	56°

### IES File Header Contents

Keyword	Value
TEST	SP-00942_M-10L
TESTLAB	Spectrum Lighting Photometric Lab, VLS-245-981
MANUFAC	Spectrum Lighting
TESTDATE	5/1/2019
ISSUEDATE	11/14/2019
LUMCAT	IF03RMx xx DWDD1010 DLWFGPMW
LUMINAIRE	Nom 3" diam Infinium, dim to warm 10L emitter - Wide flood optic, No lens
OTHER	Beam Angle: 56.4 degrees
LAMPCAT	N/A
LAMP	N/A
OTHER	CCT Output Multipliers: N/A - dim to warm
OTHER	Total luminaire wattage is approximate
OTHER	This report prepared by Spectrum Lighting

### Candela Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% Fixture	Zone	Lumens	% Fixture
0.00° - 10.00°	64.26	11.06%	90.00° - 100.00°	0.09	0.02%
10.00° - 20.00°	167.33	28.79%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	192.48	33.12%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	97.50	16.78%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	33.97	5.84%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	14.81	2.55%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	6.80	1.17%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	3.02	0.52%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	0.89	0.15%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	581.06	99.98%	0.00° - 180.00°	581.15	100.00%



### Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

<b>RCR</b>	<b>pfc</b>	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	0%
	<b>pcc</b>	80%	80%	80%	80%	70%	70%	70%	70%	50%	50%	50%	30%	30%	30%	10%	10%	0%
	<b>pw</b>	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	30%
	<b>0</b>	692	692	692	692	676	676	676	676	646	646	646	618	618	618	593	593	581
	<b>1</b>	659	642	627	614	644	629	616	604	606	595	585	584	576	568	564	558	547
	<b>2</b>	625	596	572	552	612	586	565	546	567	550	534	550	535	523	534	522	512
	<b>3</b>	593	555	526	503	582	547	520	499	532	509	491	518	499	483	505	489	479
	<b>4</b>	563	519	486	461	553	512	482	459	500	474	453	488	466	448	477	458	450
	<b>5</b>	535	486	452	426	525	480	448	425	470	442	421	460	436	417	451	430	422
	<b>6</b>	508	456	421	396	500	452	419	395	443	414	392	435	409	390	427	405	397
	<b>7</b>	484	430	394	370	476	426	392	369	418	389	367	411	385	365	405	381	375
	<b>8</b>	461	405	370	347	454	402	369	346	396	366	344	390	363	343	384	360	354
	<b>9</b>	439	383	349	326	433	380	348	325	375	345	324	370	342	323	365	340	335
	<b>10</b>	419	363	329	307	413	361	328	307	356	326	306	351	324	305	347	322	317

### Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	22.4 fc	5.9 ft
6.5 ft	16.0 fc	7.0 ft
7.5 ft	12.0 fc	8.0 ft
8.0 ft	10.6 fc	8.6 ft
10.0 ft	6.8 fc	10.7 ft
12.0 ft	4.7 fc	12.9 ft
14.0 ft	3.5 fc	15.0 ft
16.0 ft	2.6 fc	17.2 ft
20.0 ft	1.7 fc	21.4 ft
24.0 ft	1.2 fc	25.7 ft
28.0 ft	0.9 fc	30.0 ft

### Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
<b>0.00°</b>	191,853	191,853	191,853
<b>45.00°</b>	16,651	16,651	16,651
<b>55.00°</b>	7,925	7,925	7,925
<b>65.00°</b>	4,450	4,450	4,450
<b>75.00°</b>	3,080	3,080	3,080
<b>85.00°</b>	2,375	2,375	2,375

### UGR CIE 190:2010

<b>Ceiling reflectance</b>		<b>0.7</b>	<b>0.7</b>	<b>0.5</b>	<b>0.5</b>	<b>0.3</b>	<b>0.7</b>	<b>0.7</b>	<b>0.5</b>	<b>0.5</b>	<b>0.3</b>
<b>Wall reflectance</b>		<b>0.5</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.3</b>
<b>Plane reflectance</b>		<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>
<b>Room dimensions</b>		<b>Viewed crosswise</b>					<b>Viewed endwise</b>				
<b>2H</b>	<b>2H</b>	11.7	12.7	12.1	13.1	13.4	11.7	12.7	12.1	13.1	13.4
	<b>3H</b>	12.4	13.3	12.8	13.7	14.0	12.4	13.3	12.8	13.7	14.0
	<b>4H</b>	12.7	13.5	13.1	13.9	14.2	12.7	13.5	13.1	13.9	14.2
	<b>6H</b>	12.8	13.5	13.2	13.9	14.3	12.8	13.5	13.2	13.9	14.3
	<b>8H</b>	12.8	13.5	13.2	13.9	14.3	12.8	13.5	13.2	13.9	14.3
	<b>12H</b>	12.8	13.5	13.2	13.9	14.3	12.8	13.5	13.2	13.9	14.3
<b>4H</b>	<b>2H</b>	11.9	12.7	12.3	13.0	13.4	11.9	12.7	12.3	13.0	13.4
	<b>3H</b>	12.8	13.4	13.2	13.8	14.3	12.8	13.4	13.2	13.8	14.3
	<b>4H</b>	13.1	13.7	13.5	14.1	14.6	13.1	13.7	13.5	14.1	14.6
	<b>6H</b>	13.3	13.8	13.7	14.2	14.7	13.3	13.8	13.7	14.2	14.7
	<b>8H</b>	13.3	13.8	13.8	14.2	14.7	13.3	13.8	13.8	14.2	14.7
	<b>12H</b>	13.3	13.7	13.8	14.2	14.7	13.3	13.7	13.8	14.2	14.7
<b>8H</b>	<b>4H</b>	13.1	13.6	13.6	14.0	14.5	13.1	13.6	13.6	14.0	14.5
	<b>6H</b>	13.4	13.8	13.9	14.3	14.7	13.4	13.8	13.9	14.3	14.7
	<b>8H</b>	13.4	13.8	13.9	14.3	14.8	13.4	13.8	13.9	14.3	14.8
	<b>12H</b>	13.5	13.8	14.0	14.3	14.9	13.5	13.8	14.0	14.3	14.9
<b>12H</b>	<b>4H</b>	13.1	13.5	13.6	14.0	14.5	13.1	13.5	13.6	14.0	14.5
	<b>6H</b>	13.3	13.7	13.9	14.2	14.7	13.3	13.7	13.9	14.2	14.7
	<b>8H</b>	13.4	13.7	13.9	14.2	14.8	13.4	13.7	13.9	14.2	14.8

Corrected UGR values based on total output lumens

SHR = 1.0