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## Indoor Distribution Test Report

Relevant Standards  
IES LM-79-2008  
ANSI C82.77-2002

Prepared For  
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Catalog Number  
**B4146SS1B3NXXXX**  
Order Number  
10766188  
Test Number  
1044024

Test Date

2015-04-24

Prepared By

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Approved By

Eric Gaudreau, Engineering Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** White steel housing / reflector, no enclosure  
**Lamp:** 576 white LEDs  
**Mounting:** Pendant  
**Ballast/Driver:** Two Everline D21CC80UNVTZ-D

### Luminaire



### Luminaire Characteristics

Luminous Length: 48.25 in.  
Luminous Width: 12.75 in.

### Summary of Results

Total Luminaire Output:	16910 Lumens
Luminaire Efficacy:	122.7 lm/w
Maximum Candela:	5979 Candela

### Electrical Data

Test Temperature:	25.5 °C
Voltage:	120.0 VAC
Current:	1.151 A
Power:	137.8 W
Power Factor:	0.998
Frequency:	60 Hz
Current THD:	5.56 %

Laboratory results may not be representative of field performance  
Ballast factors have not been applied



## Distribution - Goniophotometer

### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	120.0 VAC	1.151 A	137.8 W	0.998	60 Hz	5.56 %

### Summary of Results

#### Spacing Criteria

0-180: 1.28  
90-270: 1.29

Total Lumen Output:

16914 Lumens

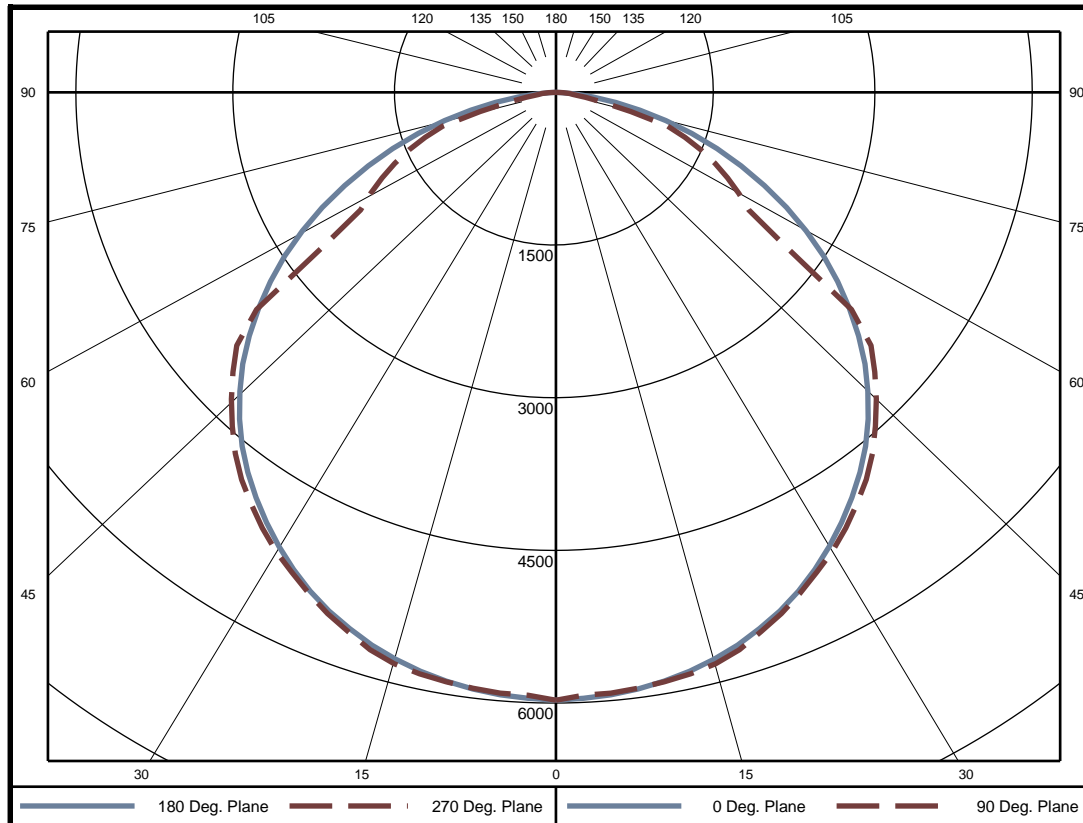
Luminaire Efficacy:

122.7 lm/w

Maximum Candela:

5979 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	151.4	0.9%	60-65	1065.2	6.3%	120-125	0.0	0.0%
5-10	423.4	2.5%	65-70	829.3	4.9%	125-130	0.0	0.0%
10-15	692.7	4.1%	70-75	616.7	3.6%	130-135	0.0	0.0%
15-20	941.6	5.6%	75-80	338.6	2.0%	135-140	0.0	0.0%
20-25	1161.3	6.9%	80-85	138.0	0.8%	140-145	0.0	0.0%
25-30	1345.6	8.0%	85-90	35.1	0.2%	145-150	0.0	0.0%
30-35	1489.1	8.8%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	1586.8	9.4%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	1633.7	9.7%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	1625.7	9.6%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	1539.2	9.1%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	1300.9	7.7%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	7791.9	46.1%
0-60	13891.3	82.1%
0-90	16914.2	100.0%
90-180	0.0	0.0%



**Candela Tabulation**  
Horizontal Angle (Degrees)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	5972	5972	5972	5972	5972	5972	5972	5972	5972	5972	5972	5972	5972	5972	5972	5972
5	5941	5963	5957	5957	5925	5957	5957	5963	5941	5963	5957	5957	5925	5957	5957	5963
10	5874	5897	5895	5899	5880	5899	5895	5897	5874	5897	5895	5899	5880	5899	5895	5897
15	5765	5790	5793	5798	5811	5798	5793	5790	5765	5790	5793	5798	5811	5798	5793	5790
20	5607	5637	5645	5650	5639	5650	5645	5637	5607	5637	5645	5650	5639	5650	5645	5637
25	5407	5437	5449	5458	5431	5458	5449	5437	5407	5437	5449	5458	5431	5458	5449	5437
30	5151	5194	5210	5222	5204	5222	5210	5194	5151	5194	5210	5222	5204	5222	5210	5194
35	4861	4904	4929	4942	4936	4942	4929	4904	4861	4904	4929	4942	4936	4942	4929	4904
40	4539	4573	4602	4634	4633	4634	4602	4573	4539	4573	4602	4634	4633	4634	4602	4573
45	4156	4201	4242	4267	4263	4267	4242	4201	4156	4201	4242	4267	4263	4267	4242	4201
50	3722	3784	3845	3853	3870	3853	3845	3784	3722	3784	3845	3853	3870	3853	3845	3784
55	3240	3303	3383	3221	2637	3221	3383	3303	3240	3303	3383	3221	2637	3221	3383	3303
60	2722	2794	2889	1980	1988	1980	2889	2794	2722	2794	2889	1980	1988	1980	2889	2794
65	2167	2272	1626	1643	1652	1643	1626	2272	2167	2272	1626	1643	1652	1643	1626	2272
70	1615	1705	1232	1287	1292	1287	1232	1705	1615	1705	1232	1287	1292	1287	1232	1705
75	1071	994	866	844	729	844	866	994	1071	994	866	844	729	844	866	994
80	573	475	397	337	284	337	397	475	573	475	397	337	284	337	397	475
85	173	140	116	131	132	131	116	140	173	140	116	131	132	131	116	140
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Average Luminance (cd/m<sup>2</sup>)**  
Horizontal Angle (Degrees)

	0	45	90
0	15050	15050	15050
45	14810	15110	15190
55	14230	14860	11580
65	12920	9694	9849
75	10430	8433	7100
85	4999	3341	3813



### Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																	
0	20148	20148	20148	20148	19679	19679	19679	19679	18805	18805	18805	18004	18004	18004	17270	17270	17270	16924
1	18507	17740	17053	16434	18051	17358	16733	16166	16641	16128	15657	15983	15565	15178	15377	15042	14728	14380
2	16870	15520	14404	13465	16429	15202	14176	13305	14605	13741	12996	14054	13333	12700	13544	12949	12419	12058
3	15395	13653	12305	11230	14979	13387	12136	11129	12885	11814	10932	12420	11508	10742	11990	11219	10558	10193
4	14099	12104	10643	9527	13713	11880	10515	9460	11457	10269	9329	11064	10035	9202	10698	9812	9079	8716
5	12964	10814	9312	8203	12610	10625	9213	8157	10267	9022	8068	9933	8839	7980	9622	8664	7894	7537
6	11967	9732	8232	7155	11644	9571	8154	7123	9266	8002	7059	8982	7856	6996	8715	7716	6935	6588
7	11090	8817	7344	6312	10797	8680	7281	6288	8419	7159	6241	8175	7041	6195	7946	6927	6150	5815
8	10317	8039	6606	5622	10052	7921	6555	5605	7697	6455	5569	7487	6359	5535	7288	6265	5500	5179
9	9633	7372	5987	5051	9393	7270	5944	5038	7076	5862	5011	6894	5782	4984	6722	5704	4958	4649
10	9027	6796	5461	4573	8809	6708	5426	4562	6540	5357	4541	6381	5290	4520	6230	5225	4500	4204

### Cone of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	373	5.17
6.00	166	7.76
8.00	93.3	10.3
10.0	59.7	12.9
12.0	41.5	15.5
14.0	30.5	18.1
16.0	23.3	20.7

### Cone of Light Plot

