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## Indoor Distribution Test Report

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

**Prepared For**

**LDPI Inc**

4404 Anderson Dr  
Eau Claire, WI 54703  
United States

**Catalog Number**

**LE551-L3-V1-5-C-V**

Order Number

12369265

Test Number

12369265.03

Test Date

2018-06-26

Prepared By

Cordaryl Cousar, Technician

Approved By

Kevin Rodriguez, Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Formed aluminum housing, clear glass lens enclosures  
**Lamp:** 180 white LEDs  
**Mounting:** Pendant  
**Ballast/Driver:** One Inventronics EUD-096S210DTA driver

### Luminaire



### Luminaire Characteristics

Luminous Length: 45.25 in.  
Luminous Width: 8.000 in.  
Luminous Height: 2.75 in.

### Summary of Results

Total Luminaire Output: 6291 Lumens  
Luminaire Efficacy: 146 lm/w  
Maximum Candela: 2165 Candela

### Test Conditions

Test Temperature: 25.3 °C  
Voltage: 120.0 VAC  
Current: 0.3633 A  
Power: 43.09 W  
Power Factor: 0.989  
Frequency: 60 Hz  
Current THD: 6.40 %

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



## Distribution - Goniophotometer

### Distribution Test Conditions

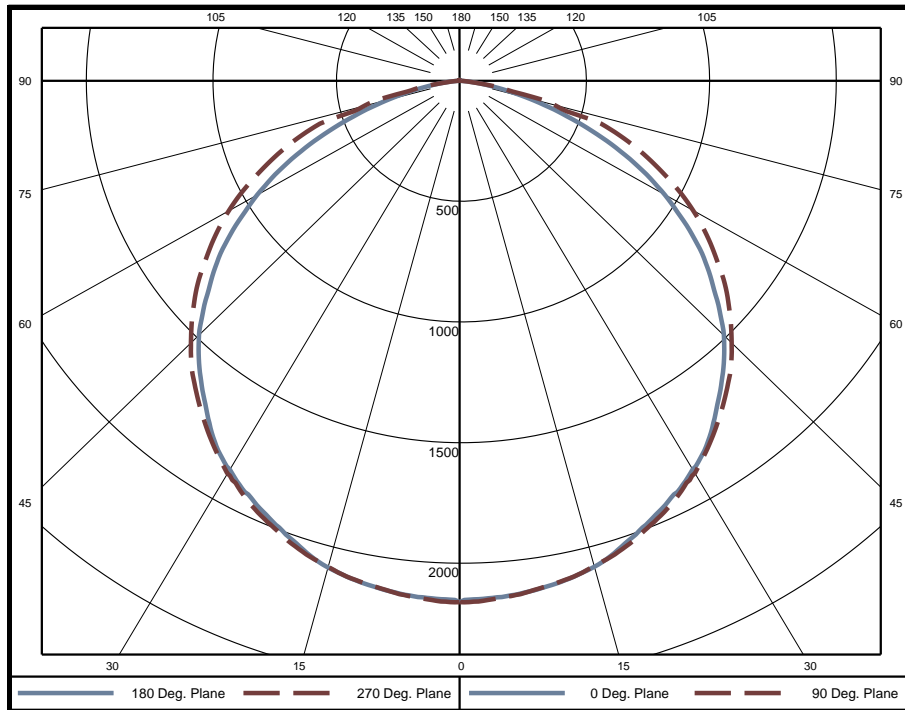
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.3 °C	120.0 VAC	0.3633 A	43.09 W	0.989	60 Hz	6.40 %

### Summary of Results

**Spacing Criteria**  
 0-180: 1.28  
 90-270: 1.29

**Total Lumen Output:** 6291 Lumens  
**Luminaire Efficacy:** 146.0 lm/w  
**Maximum Candela:** 2165 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	51.5	0.8%	60-65	440.1	7.0%	120-125	0	0.0%
5-10	152.8	2.4%	65-70	358.7	5.7%	125-130	0	0.0%
10-15	249.5	4.0%	70-75	262.7	4.2%	130-135	0	0.0%
15-20	338.7	5.4%	75-80	150.5	2.4%	135-140	0	0.0%
20-25	416.7	6.6%	80-85	56.3	0.9%	140-145	0	0.0%
25-30	482.6	7.7%	85-90	7.9	0.1%	145-150	0	0.0%
30-35	535.4	8.5%	90-95	0.4	0.0%	150-155	0	0.0%
35-40	568.6	9.0%	95-100	0.0	0.0%	155-160	0	0.0%
40-45	583.3	9.3%	100-105	0	0.0%	160-165	0	0.0%
45-50	578.7	9.2%	105-110	0	0.0%	165-170	0	0.0%
50-55	552.3	8.8%	110-115	0	0.0%	170-175	0	0.0%
55-60	504.2	8.0%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2796	44.4%
0-60	5014	79.7%
0-90	6291	100.0%
90-180	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	2158	2158	2158	2158	2158	2158	2158	2158	2158	2158	2158	2158	2158	2158	2158	2158
5	2142	2148	2152	2154	2144	2154	2152	2148	2142	2148	2152	2154	2144	2154	2152	2148
10	2119	2125	2122	2122	2117	2122	2122	2125	2119	2125	2122	2122	2117	2122	2122	2125
15	2082	2084	2083	2086	2078	2086	2083	2084	2082	2084	2083	2086	2078	2086	2083	2084
20	2012	2019	2033	2030	2025	2030	2033	2019	2012	2019	2033	2030	2025	2030	2033	2019
25	1938	1938	1955	1958	1955	1958	1955	1938	1938	1938	1955	1958	1955	1958	1955	1938
30	1857	1860	1862	1879	1875	1879	1862	1860	1857	1860	1862	1879	1875	1879	1862	1860
35	1754	1764	1766	1771	1770	1771	1766	1764	1754	1764	1766	1771	1770	1771	1766	1764
40	1623	1633	1642	1652	1657	1652	1642	1633	1623	1633	1642	1652	1657	1652	1642	1633
45	1488	1494	1506	1525	1531	1525	1506	1494	1488	1494	1506	1525	1531	1525	1506	1494
50	1316	1341	1350	1373	1392	1373	1350	1341	1316	1341	1350	1373	1392	1373	1350	1341
55	1142	1152	1179	1212	1235	1212	1179	1152	1142	1152	1179	1212	1235	1212	1179	1152
60	942	954	1000	1043	1072	1043	1000	954	942	954	1000	1043	1072	1043	1000	954
65	726	743	820	863	885	863	820	743	726	743	820	863	885	863	820	743
70	497	537	637	669	693	669	637	537	497	537	637	669	693	669	637	537
75	290	358	447	380	392	380	447	358	290	358	447	380	392	380	447	358
80	128	211	220	159	165	159	220	211	128	211	220	159	165	159	220	211
85	30	76	37	27	24	27	37	76	30	76	37	27	24	27	37	76
90	0	3	2	2	2	2	2	3	0	3	2	2	2	2	2	3
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	9241	9241	9241
45	9010	9117	9270
55	8522	8798	9217
65	7355	8306	8965
75	4798	7394	6489
85	1456	1838	1194

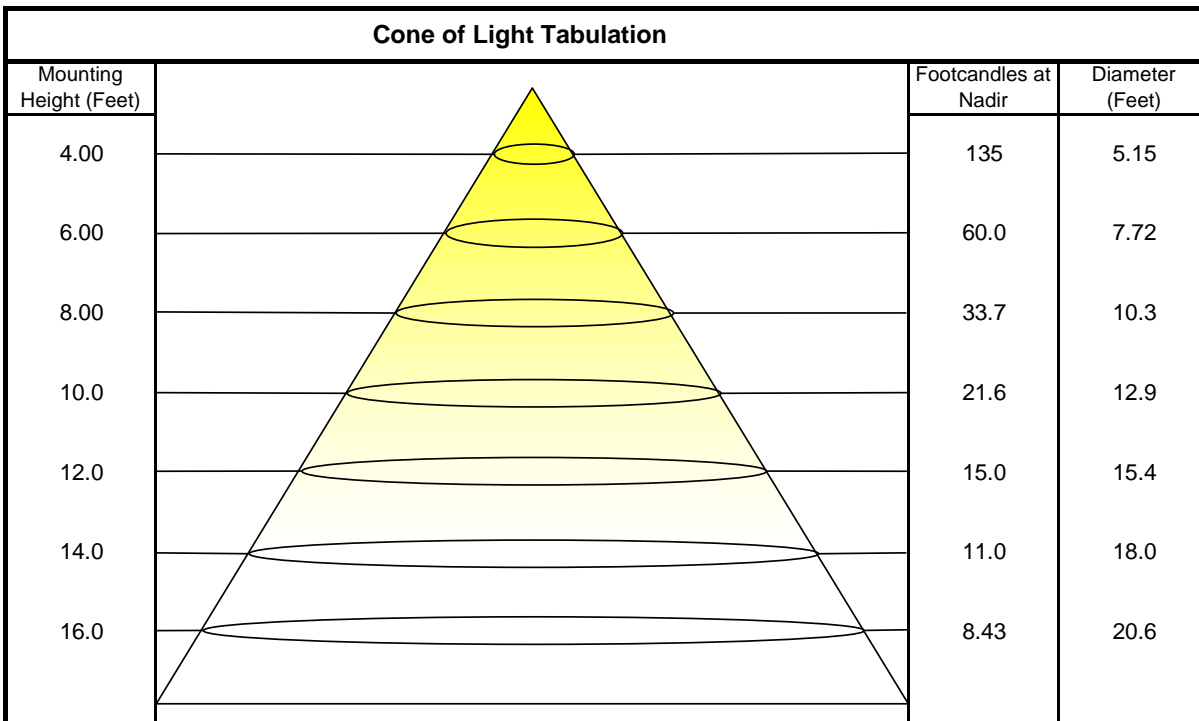


### Coefficients of Utilization - Zonal Cavity Method

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 percent of total lumen output delivered to the task surface **																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59
4	83	70	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

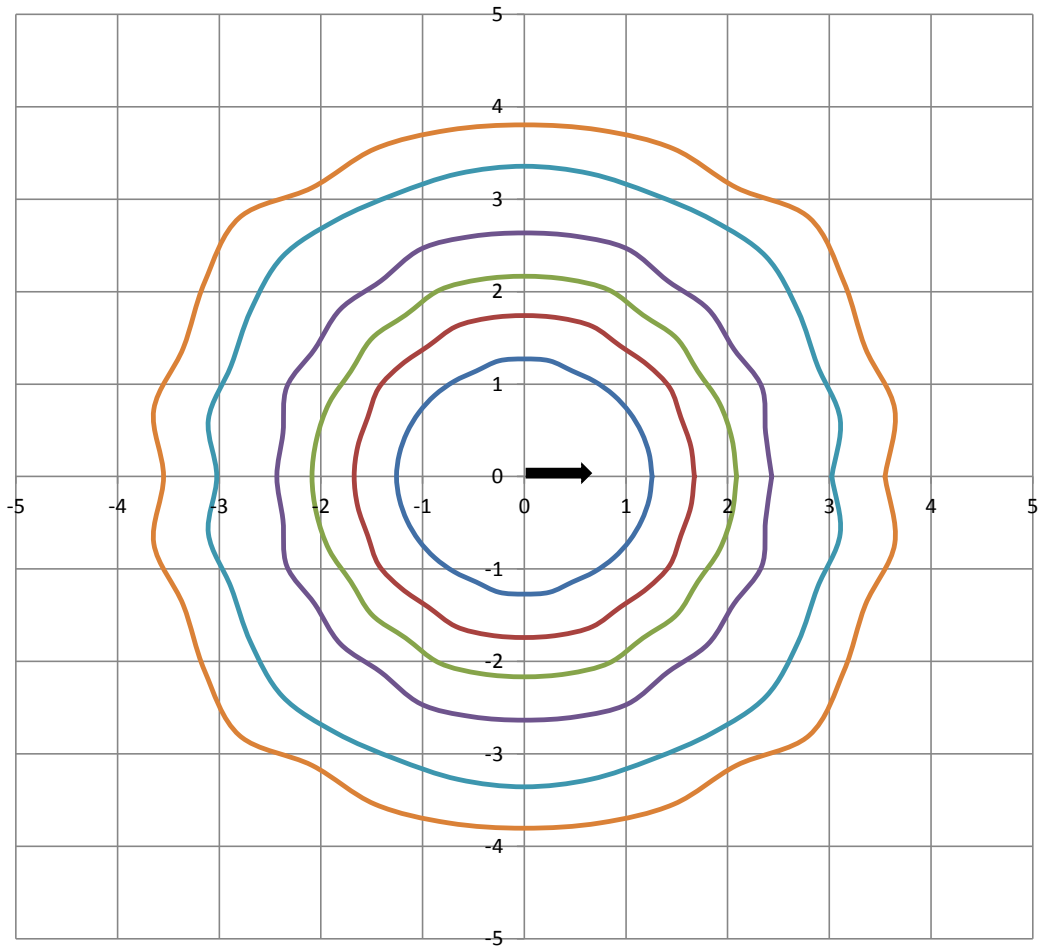
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	2158 Candela
Central Cone Intensity:	2155 Candela
Beam Flux:	4812.1 Lumens
Beam Angle (0-180):	113.2 Degrees
Beam Angle (90-270):	119.6 Degrees
Field Angle (0-180):	154.1 Degrees
Field Angle (90-270):	156.0 Degrees





### ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

