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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-L5-V1-5-D-V**

Order Number

12369265

Test Number

12369265.06

Test Date

2018-06-27

Prepared By

Samuel DePue, 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/frosted glass lens enclosures  
**Lamp:** 360 white LEDs  
**Mounting:** Pendant  
**Ballast/Driver:** One Inventronics EUD-096S210DTA driver

### Luminaire



### Luminaire Characteristics

Luminous Length: 45.25 in.  
Luminous Width: 13.00 in.  
Luminous Height: 2.75 in.

### Summary of Results

Total Luminaire Output: 8319 Lumens  
Luminaire Efficacy: 122.4 lm/w  
Maximum Candela: 2701 Candela

### Test Conditions

Test Temperature: 24.8 °C  
Voltage: 120.0 VAC  
Current: 0.5708 A  
Power: 67.99 W  
Power Factor: 0.993  
Frequency: 60 Hz  
Current THD: 7.38 %

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



## Distribution - Goniophotometer

### Distribution Test Conditions

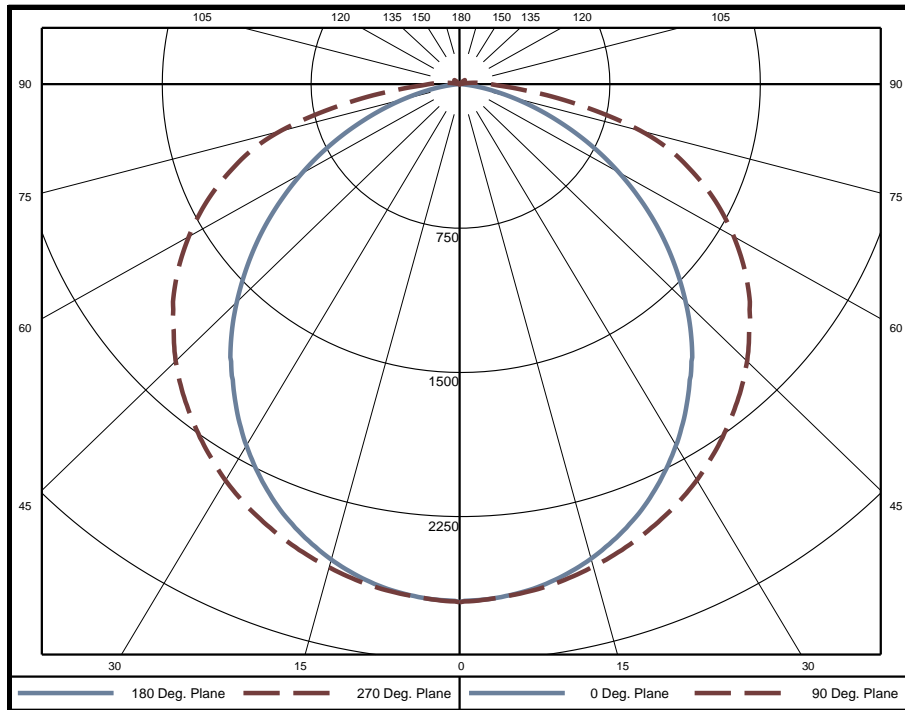
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.0 VAC	0.5708 A	67.99 W	0.993	60 Hz	7.38 %

### Summary of Results

**Spacing Criteria**  
 0-180: 1.20  
 90-270: 1.31

**Total Lumen Output:** 8319 Lumens  
**Luminaire Efficacy:** 122.4 lm/w  
**Maximum Candela:** 2701 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	64.3	0.8%	60-65	578.1	6.9%	120-125	6.7	0.1%
5-10	190.5	2.3%	65-70	503.5	6.1%	125-130	5.3	0.1%
10-15	310.0	3.7%	70-75	416.8	5.0%	130-135	2.6	0.0%
15-20	419.1	5.0%	75-80	309.7	3.7%	135-140	0.5	0.0%
20-25	514.2	6.2%	80-85	183.7	2.2%	140-145	0.1	0.0%
25-30	592.1	7.1%	85-90	79.6	1.0%	145-150	0.0	0.0%
30-35	651.0	7.8%	90-95	35.0	0.4%	150-155	0.0	0.0%
35-40	690.3	8.3%	95-100	11.6	0.1%	155-160	0.0	0.0%
40-45	709.3	8.5%	100-105	2.9	0.0%	160-165	0.0	0.0%
45-50	706.5	8.5%	105-110	3.5	0.0%	165-170	0	0.0%
50-55	682.5	8.2%	110-115	4.5	0.1%	170-175	0	0.0%
55-60	638.5	7.7%	115-120	6.3	0.1%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	3432	41.2%
0-60	6168	74.1%
0-90	8240	99.0%
90-180	79	0.9%



**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	2696	2696	2696	2696	2696	2696	2696	2696	2696	2696	2696	2696	2696	2696	2696	2696
5	2674	2684	2683	2687	2675	2687	2683	2684	2674	2684	2683	2687	2675	2687	2683	2684
10	2630	2640	2643	2653	2645	2653	2643	2640	2630	2640	2643	2653	2645	2653	2643	2640
15	2557	2570	2583	2601	2596	2601	2583	2570	2557	2570	2583	2601	2596	2601	2583	2570
20	2457	2475	2504	2534	2535	2534	2504	2475	2457	2475	2504	2534	2535	2534	2504	2475
25	2329	2353	2402	2450	2462	2450	2402	2353	2329	2353	2402	2450	2462	2450	2402	2353
30	2176	2208	2279	2353	2375	2353	2279	2208	2176	2208	2279	2353	2375	2353	2279	2208
35	2002	2046	2148	2240	2269	2240	2148	2046	2002	2046	2148	2240	2269	2240	2148	2046
40	1823	1873	2003	2117	2156	2117	2003	1873	1823	1873	2003	2117	2156	2117	2003	1873
45	1613	1687	1848	1982	2031	1982	1848	1687	1613	1687	1848	1982	2031	1982	1848	1687
50	1392	1486	1681	1839	1893	1839	1681	1486	1392	1486	1681	1839	1893	1839	1681	1486
55	1165	1276	1499	1678	1747	1678	1499	1276	1165	1276	1499	1678	1747	1678	1499	1276
60	934	1065	1314	1508	1579	1508	1314	1065	934	1065	1314	1508	1579	1508	1314	1065
65	705	862	1133	1327	1396	1327	1133	862	705	862	1133	1327	1396	1327	1133	862
70	484	669	951	1130	1190	1130	951	669	484	669	951	1130	1190	1130	951	669
75	289	497	767	903	934	903	767	497	289	497	767	903	934	903	767	497
80	132	347	540	586	591	586	540	347	132	347	540	586	591	586	540	347
85	31	175	259	291	303	291	259	175	31	175	259	291	303	291	259	175
90	0	39	104	144	157	144	104	39	0	39	104	144	157	144	104	39
95	0	4	38	73	86	73	38	4	0	4	38	73	86	73	38	4
100	0	3	5	14	21	14	5	3	0	3	5	14	21	14	5	3
105	0	6	7	7	7	7	7	6	0	6	7	7	7	7	7	6
110	0	3	12	10	9	10	12	3	0	3	12	10	9	10	12	3
115	0	0	18	18	16	18	18	0	0	0	18	18	16	18	18	0
120	0	0	22	24	24	24	22	0	0	0	22	24	24	24	22	0
125	0	0	10	31	30	31	10	0	0	0	10	31	30	31	10	0
130	0	0	1	22	32	22	1	0	0	0	1	22	32	22	1	0
135	0	0	1	5	14	5	1	0	0	0	1	5	14	5	1	0
140	0	0	0	1	2	1	0	0	0	0	0	1	2	1	0	0
145	0	0	0	0	1	0	0	0	0	0	0	0	1	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	7104	7104	7104
45	5666	5776	6248
55	4926	5400	6162
65	3888	5001	5988
75	2396	4545	5314
85	553	2449	2676

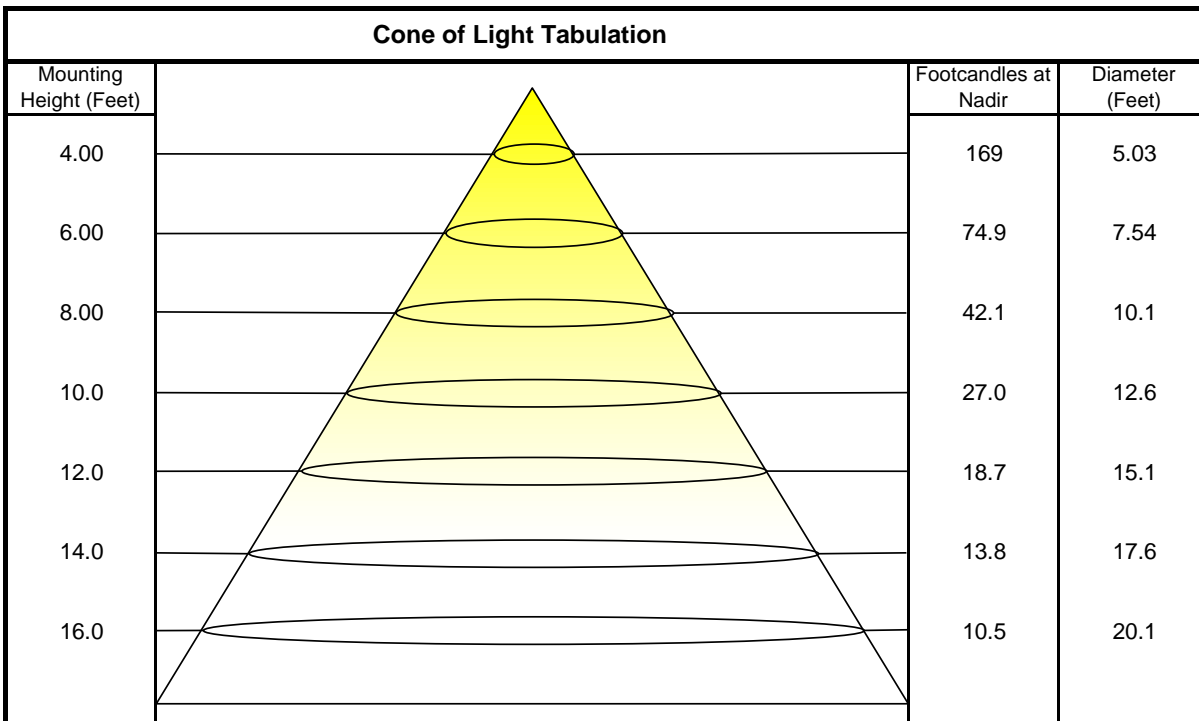


### Coefficients of Utilization - Zonal Cavity Method

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	101	101	101	99
1	108	102	98	94	105	100	96	92	96	92	89	91	89	86	88	85	83	81
2	97	89	81	75	95	87	80	74	83	77	72	79	75	70	76	72	69	66
3	88	77	69	62	86	76	68	61	72	66	60	70	64	59	67	62	58	55
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	59	54	49	47
5	74	61	51	45	72	60	51	44	57	50	44	55	48	43	53	47	43	40
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	35	28	24	22

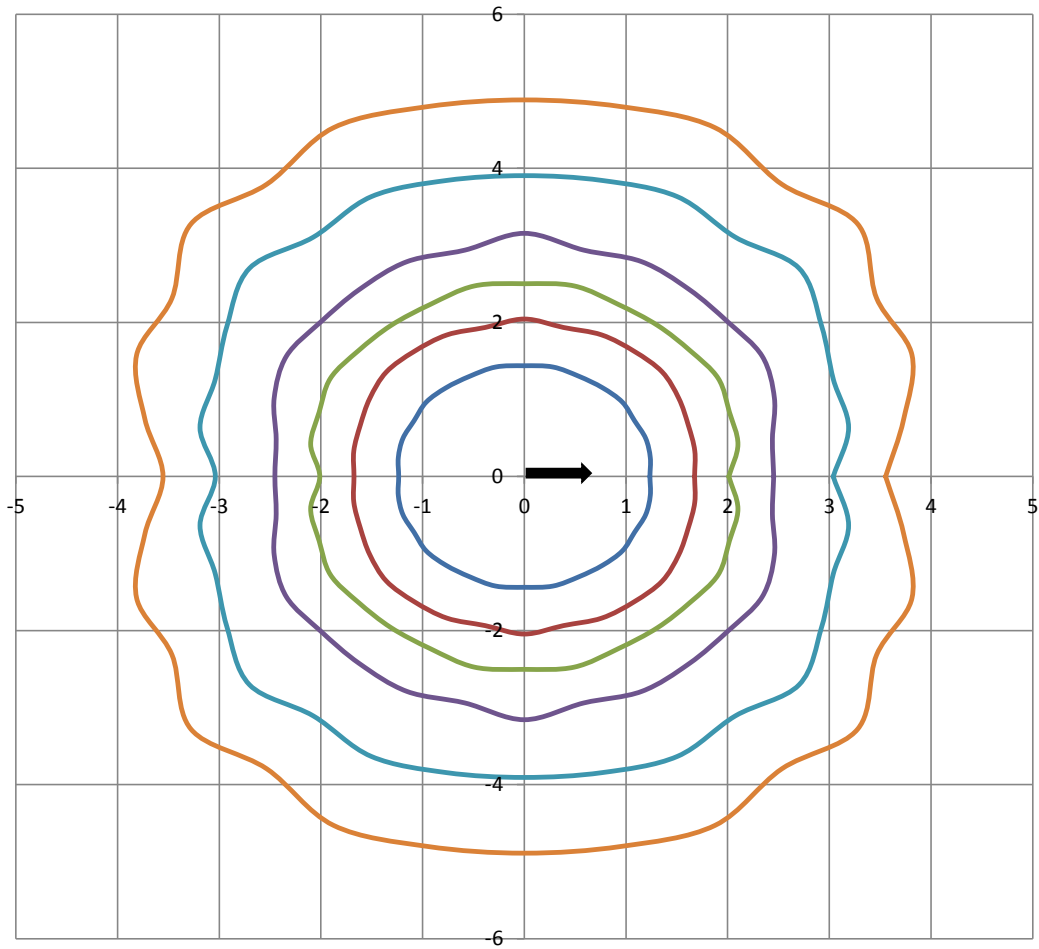
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	2696 Candela
Central Cone Intensity:	2691 Candela
Beam Flux:	6101.6 Lumens
Beam Angle (0-180):	102.0 Degrees
Beam Angle (90-270):	132.4 Degrees
Field Angle (0-180):	151.1 Degrees
Field Angle (90-270):	171.7 Degrees





### ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

