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Allentown, PA 18106
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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-D-V

Order Number

12369265

Test Number

12369265.01

Test Date

2018-06-26

Prepared By

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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: 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: 5323 Lumens
Luminaire Efficacy: 122.8 lm/w
Maximum Candela: 1706 Candela

Test Conditions

Test Temperature: 25.0 °C
Voltage: 120.0 VAC
Current: 0.3657 A
Power: 43.33 W
Power Factor: 0.988
Frequency: 60 Hz
Current THD: 8.30 %

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



Distribution - Goniophotometer

Distribution Test Conditions

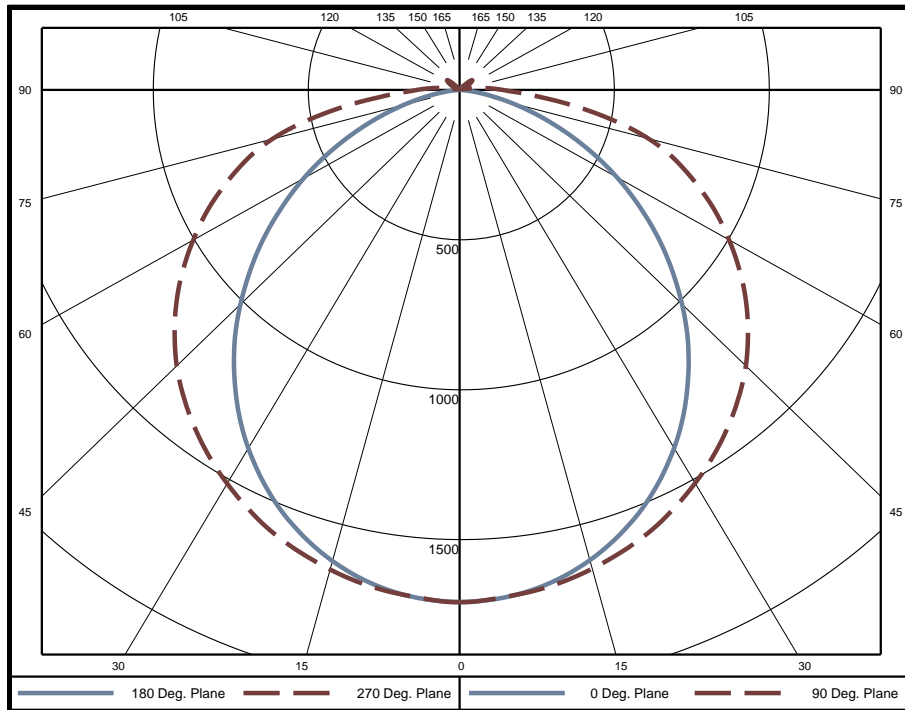
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.3657 A	43.33 W	0.988	60 Hz	8.30 %

Summary of Results

Spacing Criteria
 0-180: 1.21
 90-270: 1.32

Total Lumen Output: 5323 Lumens
Luminaire Efficacy: 122.8 lm/w
Maximum Candela: 1706 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	40.6	0.8%	60-65	362.7	6.8%	120-125	9.0	0.2%
5-10	120.3	2.3%	65-70	316.2	5.9%	125-130	8.1	0.2%
10-15	195.9	3.7%	70-75	264.9	5.0%	130-135	4.7	0.1%
15-20	265.0	5.0%	75-80	204.9	3.8%	135-140	1.6	0.0%
20-25	325.4	6.1%	80-85	132.6	2.5%	140-145	0.3	0.0%
25-30	374.6	7.0%	85-90	66.2	1.2%	145-150	0.1	0.0%
30-35	411.9	7.7%	90-95	29.8	0.6%	150-155	0.0	0.0%
35-40	436.6	8.2%	95-100	9.6	0.2%	155-160	0	0.0%
40-45	448.1	8.4%	100-105	2.7	0.1%	160-165	0	0.0%
45-50	445.5	8.4%	105-110	3.7	0.1%	165-170	0	0.0%
50-55	429.1	8.1%	110-115	4.8	0.1%	170-175	0	0.0%
55-60	400.7	7.5%	115-120	7.1	0.1%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2170	40.8%
0-60	3894	73.1%
0-90	5241	98.5%
90-180	82	1.5%



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	1703	1703	1703	1703	1703	1703	1703	1703	1703	1703	1703	1703	1703	1703	1703	1703
5	1693	1692	1694	1696	1691	1696	1694	1692	1693	1692	1694	1696	1691	1696	1694	1692
10	1665	1665	1669	1676	1675	1676	1669	1665	1665	1665	1669	1676	1675	1676	1669	1665
15	1619	1621	1633	1645	1646	1645	1633	1621	1619	1621	1633	1645	1646	1645	1633	1621
20	1555	1561	1584	1604	1610	1604	1584	1561	1555	1561	1584	1604	1610	1604	1584	1561
25	1474	1484	1520	1553	1563	1553	1520	1484	1474	1484	1520	1553	1563	1553	1520	1484
30	1378	1393	1443	1489	1506	1489	1443	1393	1378	1393	1443	1489	1506	1489	1443	1393
35	1268	1291	1359	1419	1443	1419	1359	1291	1268	1291	1359	1419	1443	1419	1359	1291
40	1146	1180	1267	1341	1371	1341	1267	1180	1146	1180	1267	1341	1371	1341	1267	1180
45	1013	1061	1167	1254	1292	1254	1167	1061	1013	1061	1167	1254	1292	1254	1167	1061
50	873	936	1057	1156	1199	1156	1057	936	873	936	1057	1156	1199	1156	1057	936
55	730	803	940	1053	1099	1053	940	803	730	803	940	1053	1099	1053	940	803
60	586	672	824	944	990	944	824	672	586	672	824	944	990	944	824	672
65	441	542	709	832	877	832	709	542	441	542	709	832	877	832	709	542
70	302	419	597	715	757	715	597	419	302	419	597	715	757	715	597	419
75	179	313	487	591	621	591	487	313	179	313	487	591	621	591	487	313
80	80	220	362	423	435	423	362	220	80	220	362	423	435	423	362	220
85	16	121	203	238	249	238	203	121	16	121	203	238	249	238	203	121
90	0	34	89	125	135	125	89	34	0	34	89	125	135	125	89	34
95	0	2	31	63	73	63	31	2	0	2	31	63	73	63	31	2
100	0	2	4	11	17	11	4	2	0	2	4	11	17	11	4	2
105	0	7	6	6	6	6	6	7	0	7	6	6	6	6	6	7
110	0	7	11	10	9	10	11	7	0	7	11	10	9	10	11	7
115	0	0	23	16	15	16	23	0	0	0	23	16	15	16	23	0
120	0	0	31	28	25	28	31	0	0	0	31	28	25	28	31	0
125	0	0	19	41	40	41	19	0	0	0	19	41	40	41	19	0
130	0	0	5	36	46	36	5	0	0	0	5	36	46	36	5	0
135	0	0	1	15	26	15	1	0	0	0	1	15	26	15	1	0
140	0	0	0	3	8	3	0	0	0	0	0	3	8	3	0	0
145	0	0	0	1	1	1	0	0	0	0	0	1	1	1	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/m²)
Horizontal Angle (Degrees)

	0	45	90
0	7291	7291	7291
45	5781	5493	5821
55	5011	4984	5503
65	3952	4450	5117
75	2411	3898	4499
85	463	2335	2484

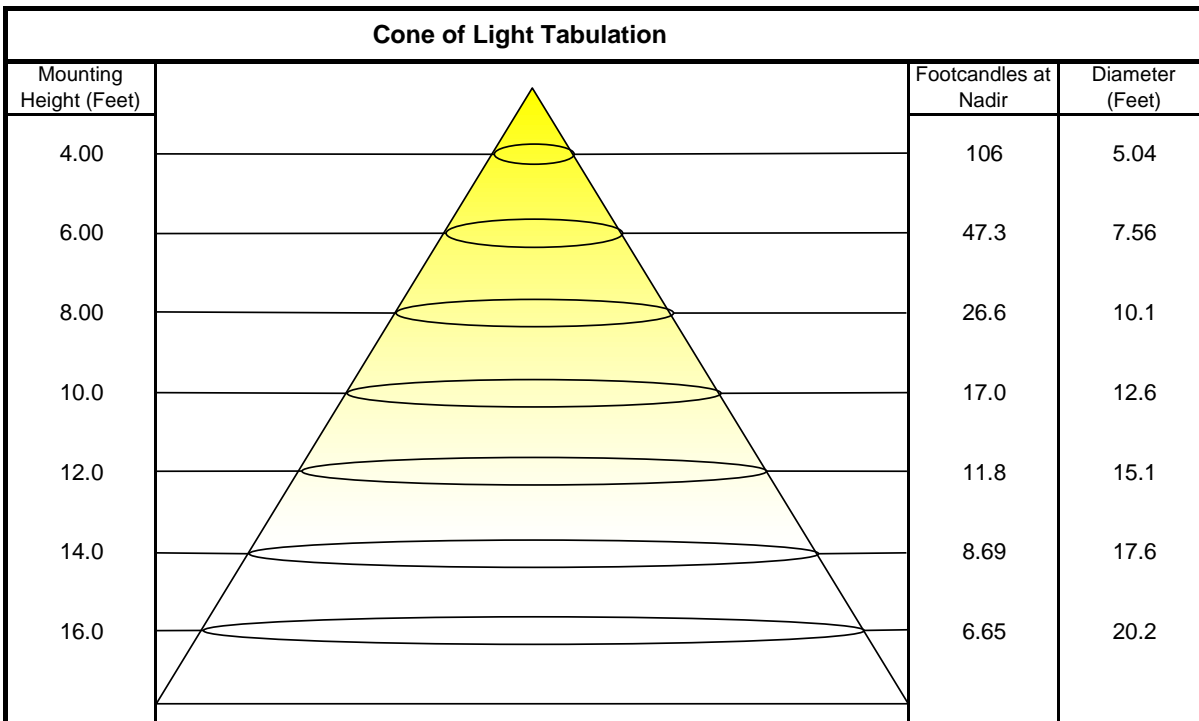


Coefficients of Utilization - Zonal Cavity Method

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	110	110	110	105	105	105	101	101	101	98
1	107	102	97	93	104	99	95	91	95	91	88	91	88	85	87	84	82	80
2	97	88	81	75	94	86	79	74	82	77	72	79	74	70	75	71	68	66
3	88	77	68	61	85	75	67	61	72	65	59	69	63	58	66	61	57	55
4	80	68	59	52	78	66	58	51	64	56	50	61	55	49	59	53	49	46
5	74	61	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	39	66	53	45	38	51	44	38	49	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	27	37	31	26	24
10	51	38	30	25	50	37	30	24	36	29	24	35	29	24	34	28	24	22

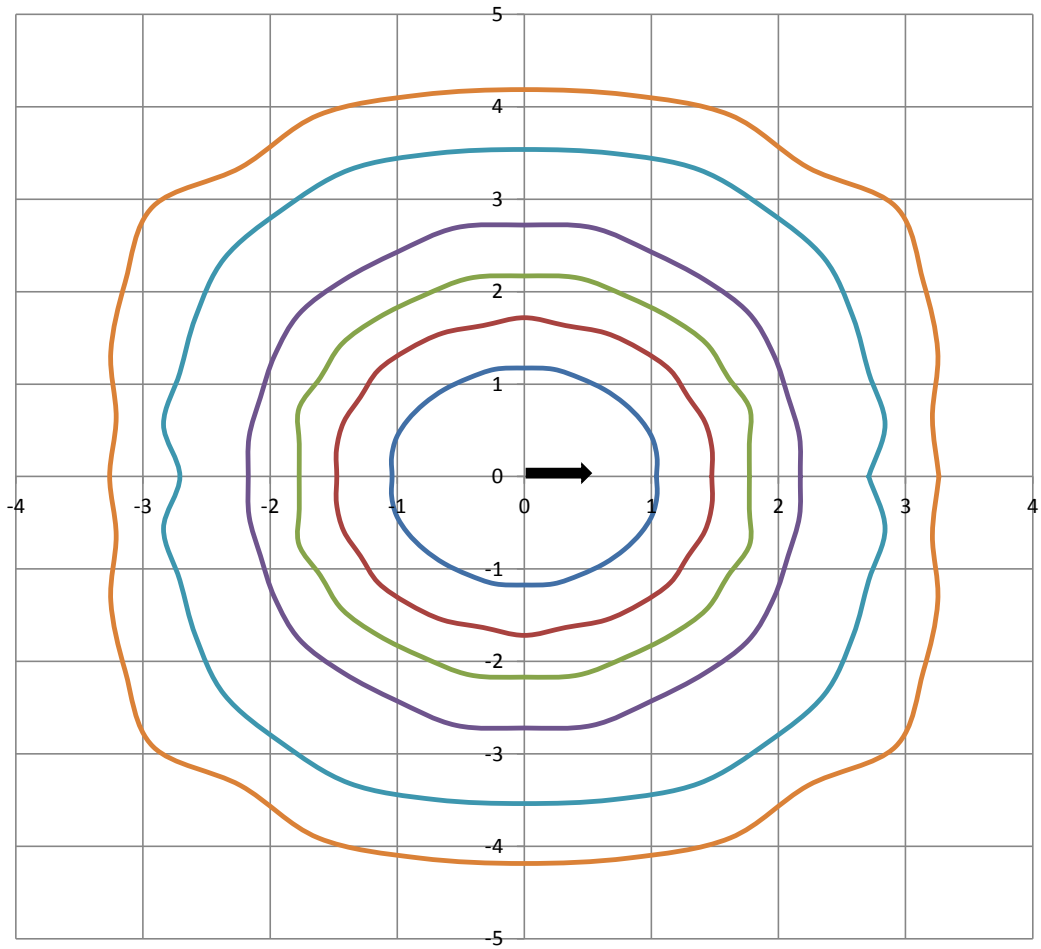
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	1703 Candela
Central Cone Intensity:	1699 Candela
Beam Flux:	3835.3 Lumens
Beam Angle (0-180):	101.6 Degrees
Beam Angle (90-270):	132.1 Degrees
Field Angle (0-180):	150.7 Degrees
Field Angle (90-270):	176.0 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

