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Indoor Distribution Test Report

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

Prepared For
LDPI Inc
Chuck Caldwell
206 Cashman Dr
Chippewa Falls, WI 54729
United States

Catalog Number
LEINS3-P6-4-3-V1-D2-C2-LGL-RS-535-PB
Order Number
11640611
Test Number
11640611.01

Test Date

2017-02-16

Prepared By

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Derek Smarr, Technician

Approved By

Tiffany Hamm

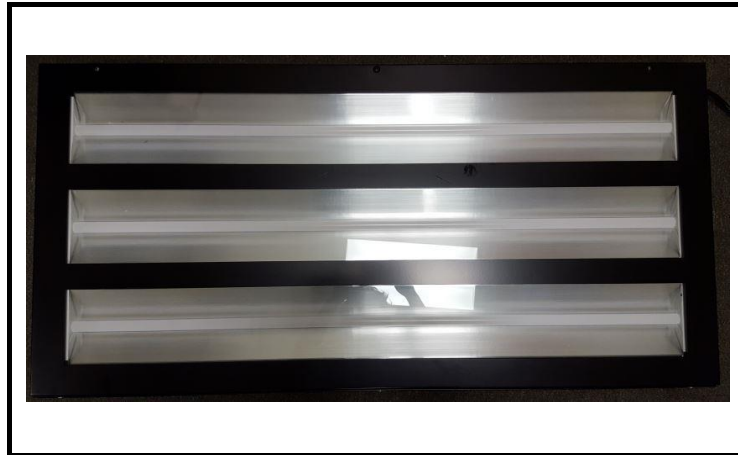
Tiffany Hamm, Project Handler

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Luminaire Description: Formed black steel housing, upper frosted lens, linear prismatic reflectors, clear glass lens enclosure
Lamp: 576 White LEDs
Mounting: Pendant
Ballast/Driver: Philips Advance Xitanium XI054C150V054BST1 driver

Luminaire



Luminaire Characteristics

Luminous Length: 45.25 in.
Luminous Width: 20.50 in.

Summary of Results

Total Luminaire Output: 7137 Lumens
Luminaire Efficacy: 104.2 lm/w
Maximum Candela: 3168 Candela

Test Conditions

Test Temperature: 24.5 °C
Voltage: 120.0 VAC
Current: 0.5724 A
Power: 68.49 W
Power Factor: 0.997
Frequency: 60 Hz
Current THD: 6.29 %

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



Distribution - Goniophotometer

Distribution Test Conditions

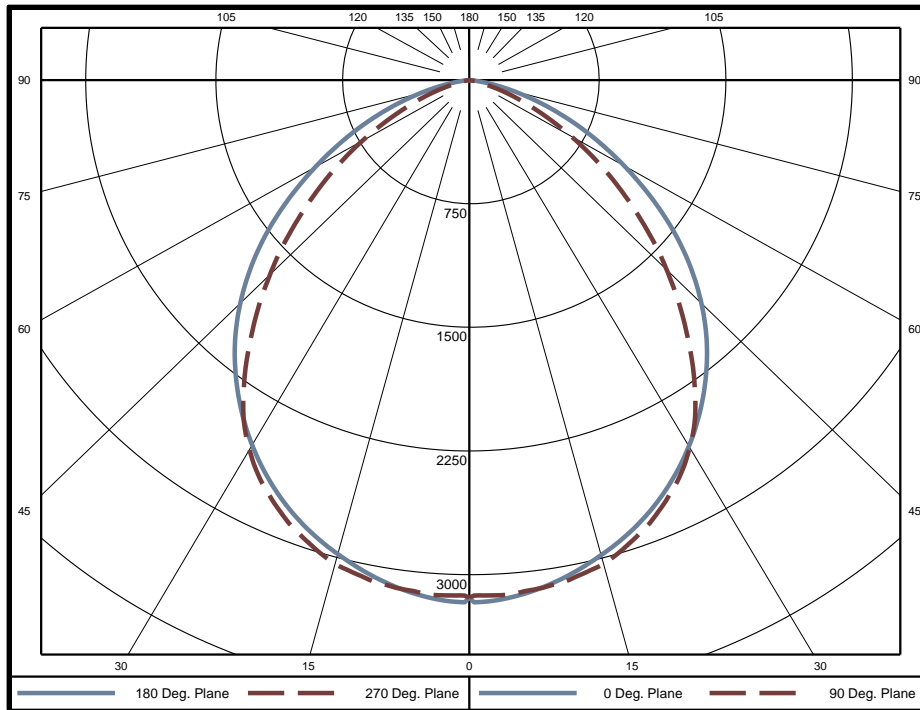
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	120.0 VAC	0.5724 A	68.49 W	0.997	60 Hz	6.29 %

Summary of Results

Spacing Criteria
 0-180: 1.22
 90-270: 1.22

Total Lumen Output: 7137 Lumens
Luminaire Efficacy: 104.2 lm/w
Maximum Candela: 3168 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	75.0	1.1%	60-65	358.7	5.0%	120-125	0	0.0%
5-10	222.5	3.1%	65-70	246.0	3.4%	125-130	0	0.0%
10-15	362.6	5.1%	70-75	142.8	2.0%	130-135	0	0.0%
15-20	489.5	6.9%	75-80	59.6	0.8%	135-140	0	0.0%
20-25	596.7	8.4%	80-85	12.9	0.2%	140-145	0	0.0%
25-30	679.1	9.5%	85-90	0.1	0.0%	145-150	0	0.0%
30-35	730.5	10.2%	90-95	0	0.0%	150-155	0	0.0%
35-40	742.9	10.4%	95-100	0	0.0%	155-160	0	0.0%
40-45	715.9	10.0%	100-105	0	0.0%	160-165	0	0.0%
45-50	657.3	9.2%	105-110	0	0.0%	165-170	0	0.0%
50-55	573.7	8.0%	110-115	0	0.0%	170-175	0	0.0%
55-60	471.7	6.6%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	3899	54.6%
0-60	6317	88.5%
0-90	7138	100.0%
90-180	0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	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	3139	3139	3139	3139	3139	3139	3139	3139	3139	3139	3139	3139	3139	3139	3139	3139
5	3142	3134	3127	3124	3126	3124	3127	3134	3142	3134	3127	3124	3126	3124	3127	3134
10	3076	3094	3091	3090	3096	3090	3091	3094	3076	3094	3091	3090	3096	3090	3091	3094
15	2983	3013	3031	3032	3039	3032	3031	3013	2983	3013	3031	3032	3039	3032	3031	3013
20	2875	2902	2936	2925	2926	2925	2936	2902	2875	2902	2936	2925	2926	2925	2936	2902
25	2736	2759	2788	2780	2777	2780	2788	2759	2736	2759	2788	2780	2777	2780	2788	2759
30	2570	2595	2597	2595	2584	2595	2597	2595	2570	2595	2597	2595	2584	2595	2597	2595
35	2381	2394	2379	2339	2310	2339	2379	2394	2381	2394	2379	2339	2310	2339	2379	2394
40	2168	2162	2100	2010	1979	2010	2100	2162	2168	2162	2100	2010	1979	2010	2100	2162
45	1926	1896	1767	1682	1647	1682	1767	1896	1926	1896	1767	1682	1647	1682	1767	1896
50	1658	1601	1448	1361	1313	1361	1448	1601	1658	1601	1448	1361	1313	1361	1448	1601
55	1360	1301	1150	1043	1000	1043	1150	1301	1360	1301	1150	1043	1000	1043	1150	1301
60	1059	1005	866	754	706	754	866	1005	1059	1005	866	754	706	754	866	1005
65	777	727	598	489	448	489	598	727	777	727	598	489	448	489	598	727
70	518	478	359	274	246	274	359	478	518	478	359	274	246	274	359	478
75	292	262	169	106	86	106	169	262	292	262	169	106	86	106	169	262
80	119	96	35	21	20	21	35	96	119	96	35	21	20	21	35	96
85	14	2	0	0	0	0	0	2	14	2	0	0	0	0	0	2
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/m²)
Horizontal Angle (Degrees)

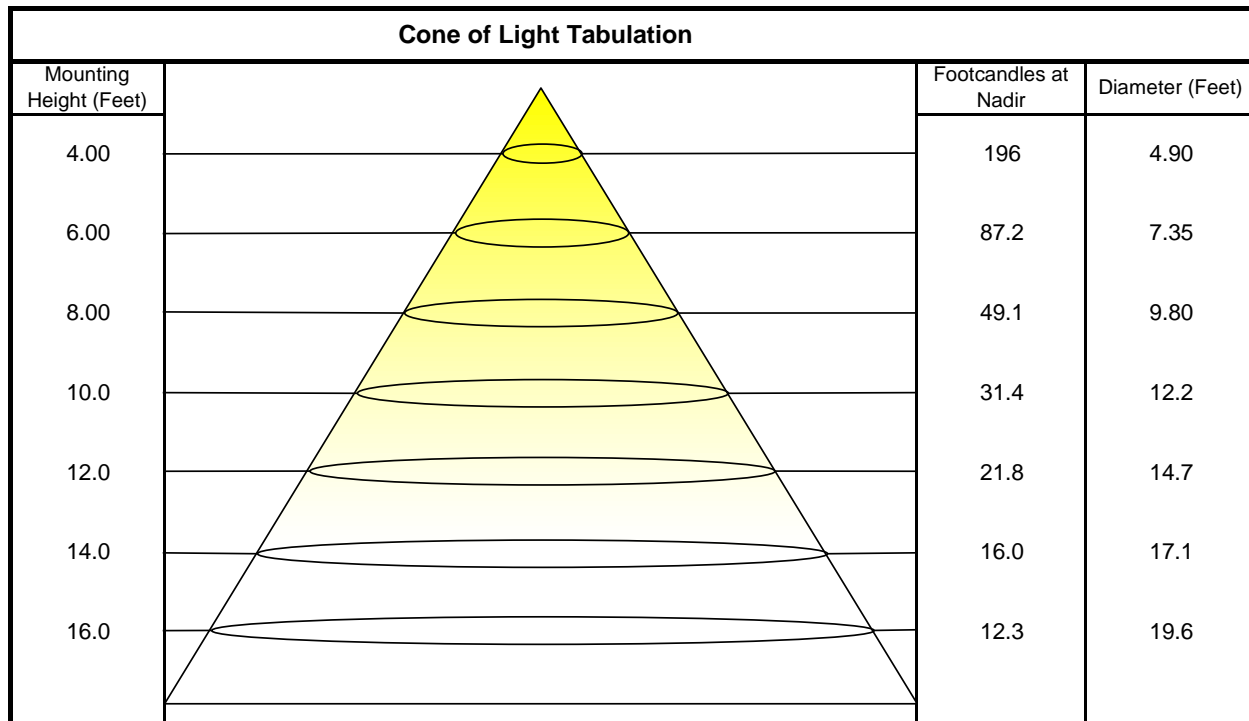
Vertical Angle (Degrees)	Horizontal Angle (Degrees)		
	0	45	90
0	5246	5246	5246
45	4552	4176	3892
55	3963	3350	2914
65	3071	2364	1769
75	1887	1090	556
85	267	0	0



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	8497	8497	8497	8497	8299	8299	8299	8299	7930	7930	7930	7593	7593	7593	7283	7283	7283	7137
1	7895	7611	7355	7125	7708	7451	7220	7010	7153	6964	6791	6880	6727	6585	6627	6505	6392	6251
2	7269	6759	6336	5981	7091	6628	6240	5911	6381	6057	5776	6154	5884	5647	5944	5722	5524	5381
3	6688	6019	5502	5090	6521	5910	5431	5045	5704	5295	4958	5514	5166	4874	5337	5044	4794	4650
4	6165	5390	4823	4389	6009	5298	4769	4360	5125	4666	4302	4965	4568	4246	4815	4474	4191	4048
5	5698	4855	4266	3832	5555	4778	4225	3812	4632	4145	3772	4496	4068	3733	4369	3995	3695	3554
6	5282	4399	3807	3381	5152	4334	3774	3367	4209	3711	3339	4093	3650	3311	3984	3591	3284	3146
7	4912	4008	3423	3012	4794	3952	3397	3002	3846	3346	2981	3746	3296	2961	3653	3249	2941	2807
8	4583	3672	3099	2706	4475	3624	3078	2698	3532	3037	2683	3446	2996	2667	3365	2957	2652	2524
9	4289	3381	2825	2449	4192	3339	2807	2443	3260	2773	2431	3185	2739	2419	3115	2707	2408	2284
10	4027	3127	2589	2231	3938	3091	2574	2226	3022	2546	2217	2957	2518	2208	2896	2491	2199	2080

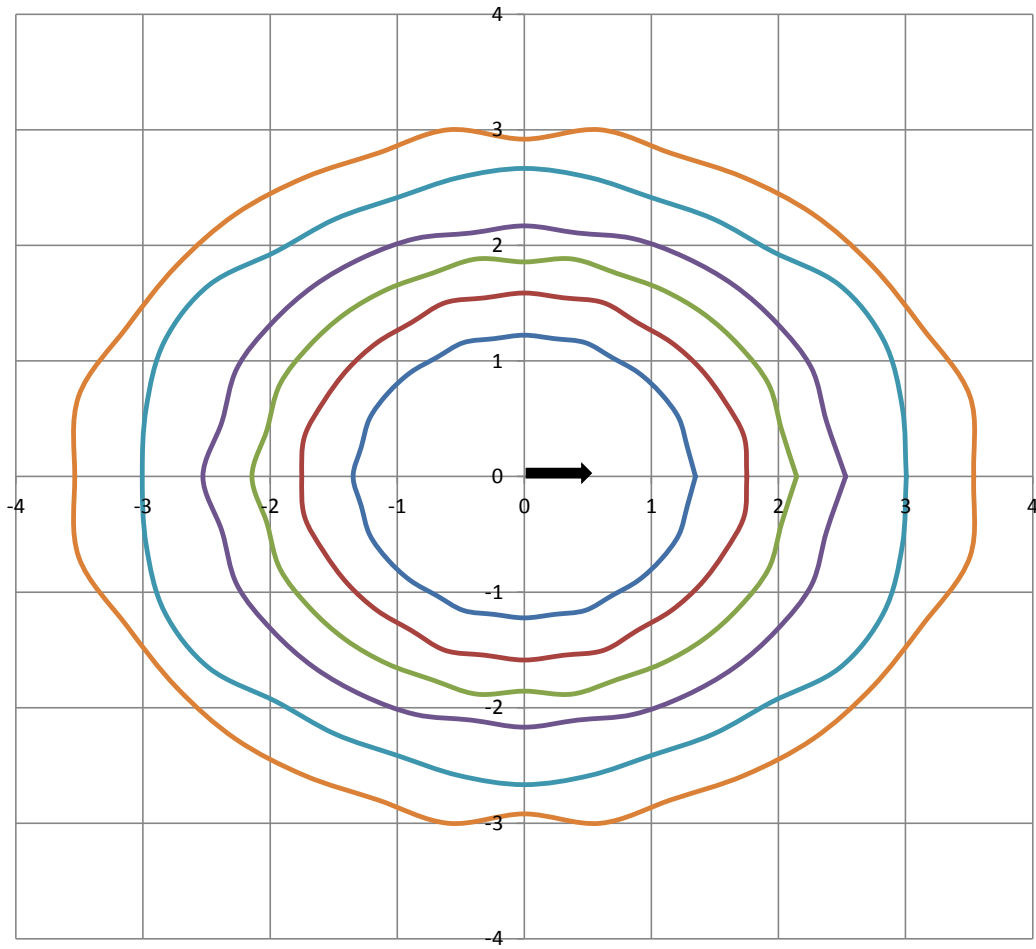
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	3139 Candela
Central Cone Intensity:	3136 Candela
Beam Flux:	5101.4 Lumens
Beam Angle (0-180):	103.1 Degrees
Beam Angle (90-270):	92.4 Degrees
Field Angle (0-180):	148.9 Degrees
Field Angle (90-270):	136.4 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

