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Indoor Distribution Test Report

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

Prepared For
LDPI Inc
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Chippewa Falls, WI 54729
United States

Catalog Number
LEINS3-P6-6-3-V1-D2-C2-LGL-RS-535-PB
Order Number
11640611
Test Number
11640611.02

Test Date

2017-02-16

Prepared By

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Approved By

Tiffany Hamm, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Formed black steel housing, upper frosted lens, linear prismatic reflectors, clear glass lens enclosure
Lamp: 864 White LEDs
Mounting: Pendant
Ballast/Driver: Philips Advance Xitanium XI054C150V054BST1 driver

Luminaire



Luminaire Characteristics

Luminous Length: 67.25 in.
Luminous Width: 20.50 in.

Summary of Results

Total Luminaire Output: 10340 Lumens
Luminaire Efficacy: 99.9 lm/w
Maximum Candela: 4598 Candela

Test Conditions

Test Temperature: 24.7 °C
Voltage: 120.0 VAC
Current: 0.8654 A
Power: 103.5 W
Power Factor: 0.997
Frequency: 60 Hz
Current THD: 6.13 %

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



Distribution - Goniophotometer

Distribution Test Conditions

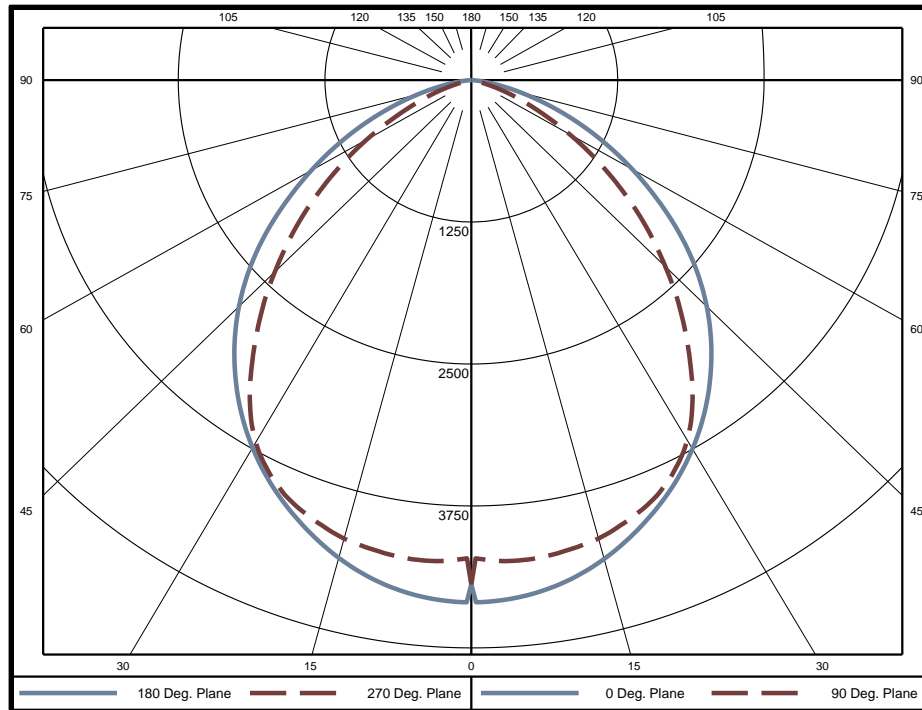
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.8654 A	103.5 W	0.997	60 Hz	6.13 %

Summary of Results

Spacing Criteria
 0-180: 1.25
 90-270: 1.25

Total Lumen Output: 10340 Lumens
Luminaire Efficacy: 99.9 lm/w
Maximum Candela: 4598 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	107	1.0%	60-65	526	5.1%	120-125	0	0.0%
5-10	318	3.1%	65-70	361	3.5%	125-130	0	0.0%
10-15	518	5.0%	70-75	210	2.0%	130-135	0	0.0%
15-20	701	6.8%	75-80	92	0.9%	135-140	0	0.0%
20-25	857	8.3%	80-85	27	0.3%	140-145	0	0.0%
25-30	980	9.5%	85-90	2	0.0%	145-150	0	0.0%
30-35	1056	10.2%	90-95	0	0.0%	150-155	0	0.0%
35-40	1073	10.4%	95-100	0	0.0%	155-160	0	0.0%
40-45	1037	10.0%	100-105	0	0.0%	160-165	0	0.0%
45-50	955	9.2%	105-110	0	0.0%	165-170	0	0.0%
50-55	837	8.1%	110-115	0	0.0%	170-175	0	0.0%
55-60	690	6.7%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	5610	54.3%
0-60	9129	88.3%
0-90	10347	100.1%
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	4440	4440	4440	4440	4440	4440	4440	4440	4440	4440	4440	4440	4440	4440	4440	4440
5	4572	4571	4508	4348	4248	4348	4508	4571	4572	4571	4508	4348	4248	4348	4508	4571
10	4494	4506	4465	4324	4231	4324	4465	4506	4494	4506	4465	4324	4231	4324	4465	4506
15	4365	4387	4361	4255	4180	4255	4361	4387	4365	4387	4361	4255	4180	4255	4361	4387
20	4192	4225	4218	4136	4077	4136	4218	4225	4192	4225	4218	4136	4077	4136	4218	4225
25	3991	4021	4015	3972	3923	3972	4015	4021	3991	4021	4015	3972	3923	3972	4015	4021
30	3756	3772	3764	3723	3676	3723	3764	3772	3756	3772	3764	3723	3676	3723	3764	3772
35	3484	3480	3448	3350	3289	3350	3448	3480	3484	3480	3448	3350	3289	3350	3448	3480
40	3176	3145	3039	2882	2827	2882	3039	3145	3176	3145	3039	2882	2827	2882	3039	3145
45	2834	2759	2568	2424	2355	2424	2568	2759	2834	2759	2568	2424	2355	2424	2568	2759
50	2450	2337	2114	1959	1894	1959	2114	2337	2450	2337	2114	1959	1894	1959	2114	2337
55	2023	1914	1689	1506	1429	1506	1689	1914	2023	1914	1689	1506	1429	1506	1689	1914
60	1593	1493	1274	1077	997	1077	1274	1493	1593	1493	1274	1077	997	1077	1274	1493
65	1183	1094	878	684	616	684	878	1094	1183	1094	878	684	616	684	878	1094
70	800	730	521	375	332	375	521	730	800	730	521	375	332	375	521	730
75	463	408	242	139	114	139	242	408	463	408	242	139	114	139	242	408
80	202	157	58	41	39	41	58	157	202	157	58	41	39	41	58	157
85	42	19	11	12	12	12	11	19	42	19	11	12	12	12	11	19
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)

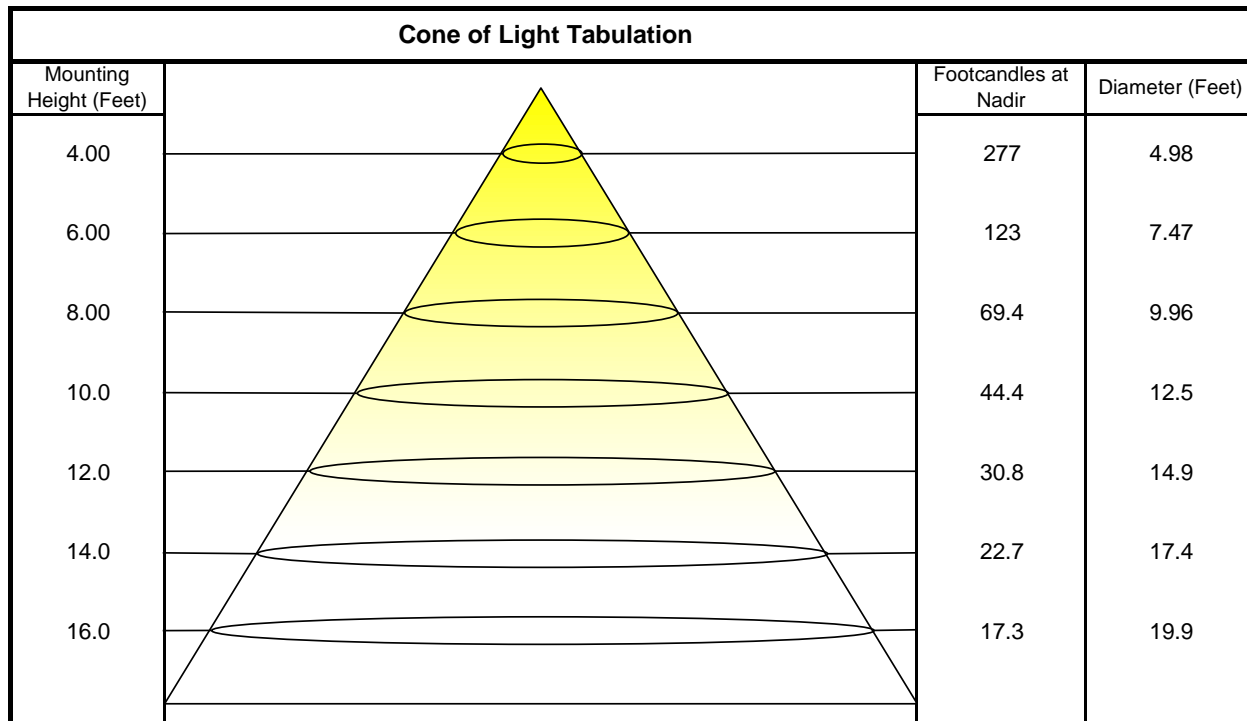
Vertical Angle (Degrees)	Horizontal Angle (Degrees)		
	0	45	90
0	4992	4992	4992
45	4507	4083	3745
55	3965	3310	2802
65	3148	2335	1639
75	2009	1050	494
85	539	142	161



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	12315	12315	12315	12315	12028	12028	12028	12028	11494	11494	11494	11005	11005	11005	10556	10556	10556	10344
1	11436	11020	10647	10311	11164	10789	10451	10144	10356	10080	9826	9959	9736	9529	9593	9415	9248	9044
2	10524	9780	9164	8646	10265	9589	9024	8545	9232	8758	8349	8903	8509	8163	8598	8274	7985	7777
3	9679	8705	7951	7351	9436	8547	7849	7286	8248	7652	7161	7972	7465	7039	7715	7288	6923	6713
4	8919	7791	6965	6335	8693	7658	6888	6292	7407	6738	6208	7174	6595	6127	6957	6460	6048	5840
5	8241	7015	6158	5526	8034	6903	6098	5497	6691	5982	5439	6493	5871	5383	6309	5765	5328	5123
6	7638	6354	5492	4873	7449	6259	5445	4853	6078	5353	4812	5909	5264	4772	5751	5180	4732	4532
7	7101	5787	4936	4339	6929	5706	4898	4324	5551	4824	4294	5407	4753	4265	5271	4684	4236	4042
8	6624	5300	4468	3896	6468	5231	4437	3885	5097	4377	3862	4972	4318	3840	4855	4262	3818	3631
9	6199	4879	4070	3524	6057	4818	4045	3516	4703	3995	3498	4595	3946	3481	4492	3900	3465	3284
10	5819	4512	3729	3209	5690	4459	3708	3202	4359	3667	3189	4265	3626	3176	4175	3587	3163	2989

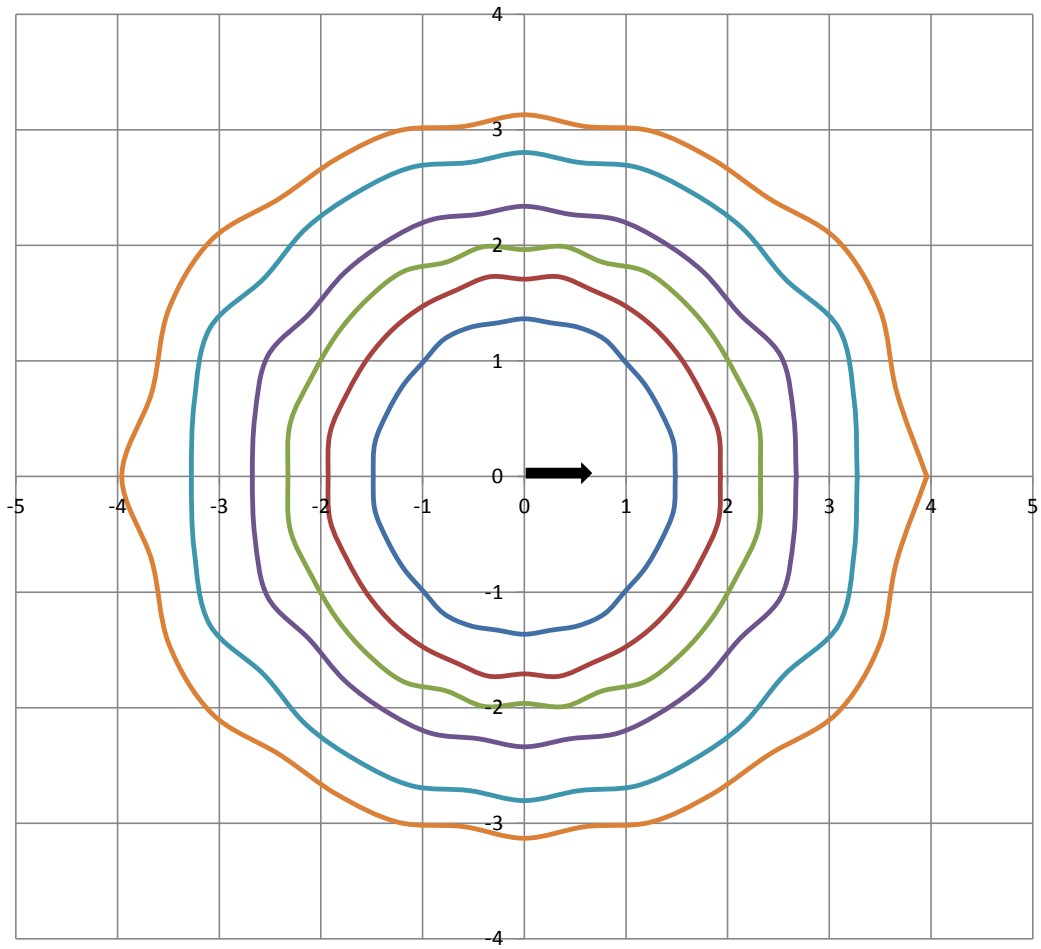
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	4440 Candela
Central Cone Intensity:	4454 Candela
Beam Flux:	7484.7 Lumens
Beam Angle (0-180):	105.5 Degrees
Beam Angle (90-270):	92.9 Degrees
Field Angle (0-180):	150.6 Degrees
Field Angle (90-270):	135.8 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

