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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
Autronic Plastics Inc

Roy Jacob
1150 Motor Parkway
Central Islip
NY 11722
United States

Catalog Number
CL-24-H1-C-UV

Order Number
11563064
Test Number
11563064.06

Test Date

2016-12-13

Prepared By

Daniel Booth, Technician

Approved By

Tiffany Hamm, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Aluminum housing, frosted and glass lens enclosure
Lamp: 384 white LEDs
Mounting: Recessed
Ballast/Driver: Philips XI075C200V054BST1

Luminaire



Luminaire Characteristics

Luminous Length: 40.25 in.
Luminous Width: 17.50 in.

Summary of Results

Total Luminaire Output:	10680 Lumens
Luminaire Efficacy:	103.5 lm/w
Maximum Candela:	4248 Candela

Test Conditions

Test Temperature:	24.7 °C
Voltage:	120.0 VAC
Current:	0.8652 A
Power:	103.2 W
Power Factor:	0.994
Frequency:	60 Hz
Current THD:	10.3 %

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



Distribution - Goniophotometer

Distribution Test Conditions

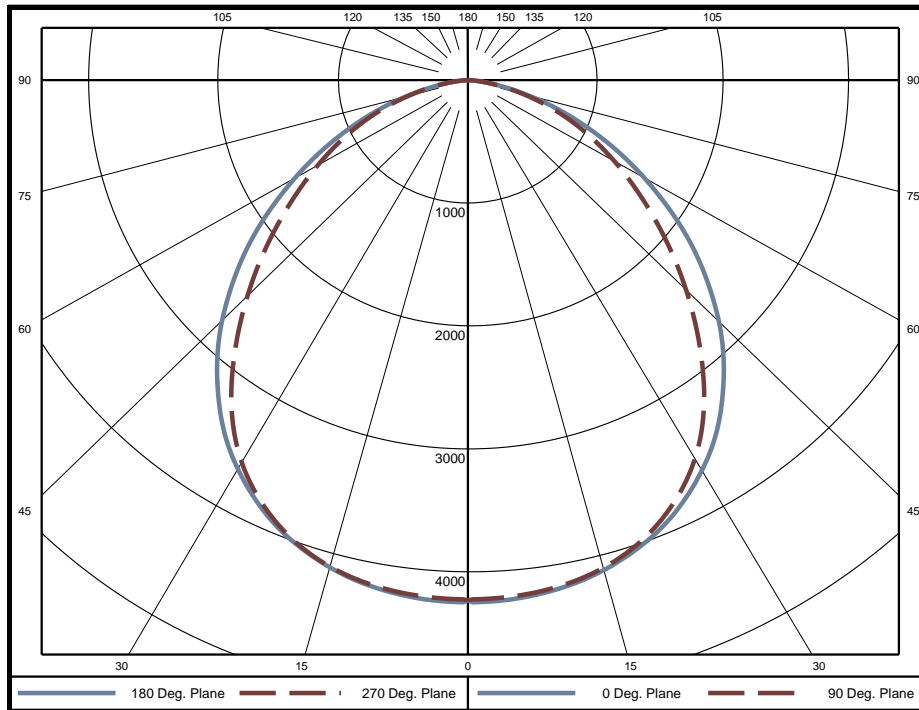
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.8652 A	103.2 W	0.994	60 Hz	10.3 %

Summary of Results

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

Total Lumen Output: 10680 Lumens
Luminaire Efficacy: 103.5 lm/w
Maximum Candela: 4248 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	101	0.9%	60-65	614	5.7%	120-125	0	0.0%
5-10	301	2.8%	65-70	472	4.4%	125-130	0	0.0%
10-15	492	4.6%	70-75	326	3.1%	130-135	0	0.0%
15-20	668	6.3%	75-80	187	1.8%	135-140	0	0.0%
20-25	821	7.7%	80-85	75	0.7%	140-145	0	0.0%
25-30	942	8.8%	85-90	12	0.1%	145-150	0	0.0%
30-35	1020	9.6%	90-95	0	0.0%	150-155	0	0.0%
35-40	1047	9.8%	95-100	0	0.0%	155-160	0	0.0%
40-45	1025	9.6%	100-105	0	0.0%	160-165	0	0.0%
45-50	962	9.0%	105-110	0	0.0%	165-170	0	0.0%
50-55	866	8.1%	110-115	0	0.0%	170-175	0	0.0%
55-60	747	7.0%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	5392	50.5%
0-60	8992	84.2%
0-90	10678	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	4231	4231	4231	4231	4231	4231	4231	4231	4231	4231	4231	4231	4231	4231	4231	4231
5	4236	4228	4215	4212	4214	4212	4215	4228	4236	4228	4215	4212	4214	4212	4215	4228
10	4196	4189	4178	4176	4179	4176	4178	4189	4196	4189	4178	4176	4179	4176	4178	4189
15	4125	4117	4106	4105	4109	4105	4106	4117	4125	4117	4106	4105	4109	4105	4106	4117
20	4017	4005	3989	3985	3989	3985	3989	4005	4017	4005	3989	3985	3989	3985	3989	4005
25	3866	3849	3823	3810	3811	3810	3823	3849	3866	3849	3823	3810	3811	3810	3823	3849
30	3667	3640	3596	3571	3567	3571	3596	3640	3667	3640	3596	3571	3567	3571	3596	3640
35	3421	3374	3302	3252	3238	3252	3302	3374	3421	3374	3302	3252	3238	3252	3302	3374
40	3120	3055	2942	2866	2841	2866	2942	3055	3120	3055	2942	2866	2841	2866	2942	3055
45	2783	2692	2550	2460	2435	2460	2550	2692	2783	2692	2550	2460	2435	2460	2550	2692
50	2407	2306	2153	2066	2040	2066	2153	2306	2407	2306	2153	2066	2040	2066	2153	2306
55	2010	1910	1769	1691	1671	1691	1769	1910	2010	1910	1769	1691	1671	1691	1769	1910
60	1601	1520	1403	1352	1341	1352	1403	1520	1601	1520	1403	1352	1341	1352	1403	1520
65	1212	1148	1069	1041	1037	1041	1069	1148	1212	1148	1069	1041	1037	1041	1069	1148
70	844	798	760	747	746	747	760	798	844	798	760	747	746	747	760	798
75	508	483	474	468	468	468	474	483	508	483	474	468	468	468	474	483
80	238	229	229	229	231	229	229	229	238	229	229	229	231	229	229	229
85	58	58	62	63	64	63	62	58	58	58	62	63	64	63	62	58
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)

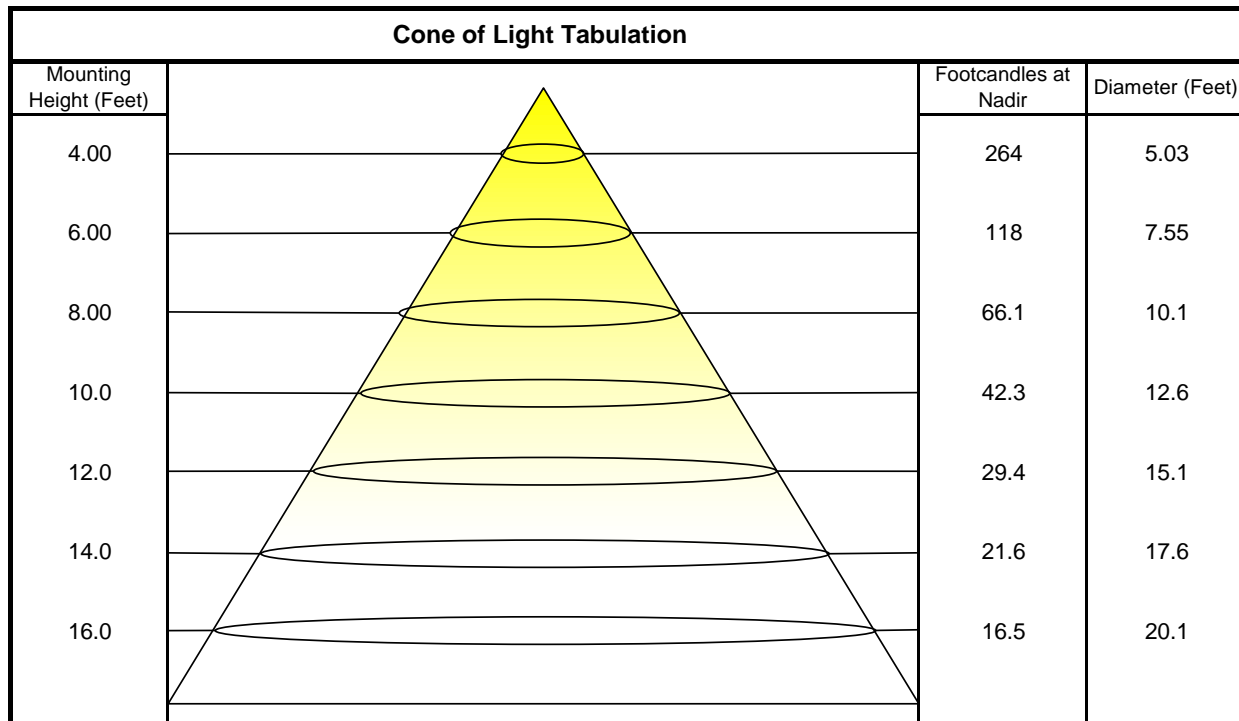
Vertical Angle (Degrees)	Horizontal Angle (Degrees)		
	0	45	90
0	9311	9311	9311
45	8660	7935	7577
55	7710	6788	6411
65	6311	5564	5400
75	4320	4027	3978
85	1465	1556	1612



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	12711	12711	12711	12711	12415	12415	12415	12415	11864	11864	11864	11359	11359	11359	10895	10895	10895	10677
1	11724	11261	10846	10471	11439	11021	10643	10301	10571	10261	9978	10158	9906	9674	9777	9576	9388	9171
2	10733	9916	9240	8672	10460	9717	9096	8569	9344	8822	8371	8999	8564	8183	8681	8322	8002	7780
3	9834	8776	7957	7304	9576	8610	7851	7239	8297	7647	7113	8007	7455	6990	7738	7272	6872	6649
4	9037	7822	6932	6252	8798	7682	6851	6209	7419	6696	6125	7174	6549	6043	6947	6408	5963	5740
5	8334	7021	6103	5426	8115	6903	6041	5397	6681	5921	5339	6473	5806	5282	6280	5696	5227	5008
6	7713	6344	5426	4767	7513	6244	5377	4746	6055	5281	4704	5878	5190	4664	5713	5102	4624	4411
7	7163	5768	4864	4231	6982	5683	4825	4216	5521	4748	4185	5369	4674	4156	5227	4603	4126	3921
8	6677	5276	4395	3789	6513	5203	4362	3778	5063	4300	3755	4932	4239	3733	4809	4181	3711	3513
9	6244	4851	3997	3421	6095	4787	3971	3412	4667	3919	3395	4553	3869	3378	4446	3820	3361	3170
10	5858	4482	3658	3110	5724	4427	3636	3103	4322	3593	3089	4223	3551	3076	4130	3510	3063	2880

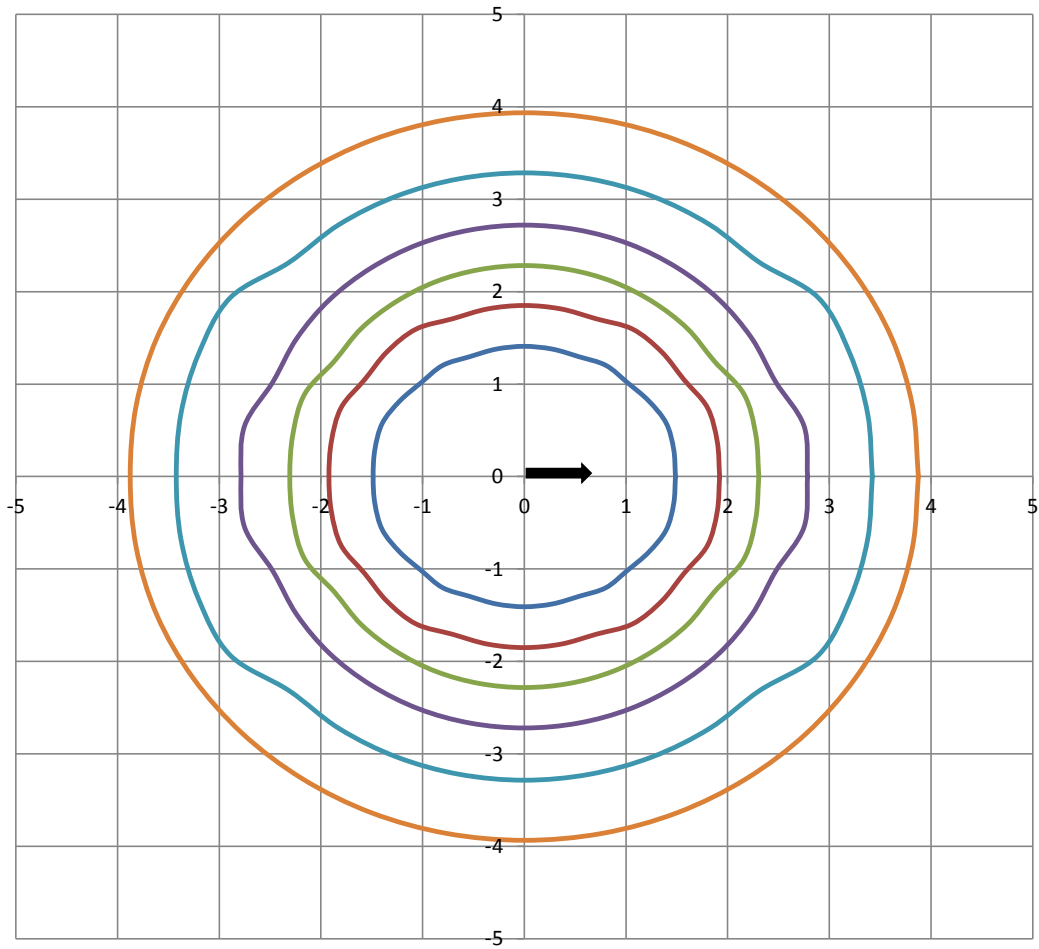
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	4231 Candela
Central Cone Intensity:	4227 Candela
Beam Flux:	7551.8 Lumens
Beam Angle (0-180):	107.4 Degrees
Beam Angle (90-270):	98.0 Degrees
Field Angle (0-180):	152.8 Degrees
Field Angle (90-270):	151.7 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

