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Indoor Distribution Test Report

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

Prepared For
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PO Box 394
Wappingers Falls, NY 12590
United States

Catalog Number
2380
Order Number
11526201
Test Number
11526201.01

Test Date

2016-11-14

Prepared By

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Approved By

Edward Bush, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Formed aluminum housing, frosted lens
Lamp: 1 white LED
Mounting: Pendant
Ballast/Driver: ERP EBR010U-0200-42

Luminaire



Luminaire Characteristics
Luminous Diameter: 1.50 in.

Summary of Results

Total Luminaire Output:	366.0 Lumens
Luminaire Efficacy:	42.2 lm/w
Maximum Candela:	202 Candela

Test Conditions

Test Temperature:	24.7 °C
Voltage:	120.1 VAC
Current:	0.07293 A
Power:	8.665 W
Power Factor:	0.990
Frequency:	60 Hz
Current THD:	10.8 %

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	120.1 VAC	0.07293 A	8.665 W	0.990	60 Hz	10.8 %

Summary of Results

Spacing Criteria

0-180: 1.12
90-270: 1.12

Total Lumen Output:

366.0 Lumens

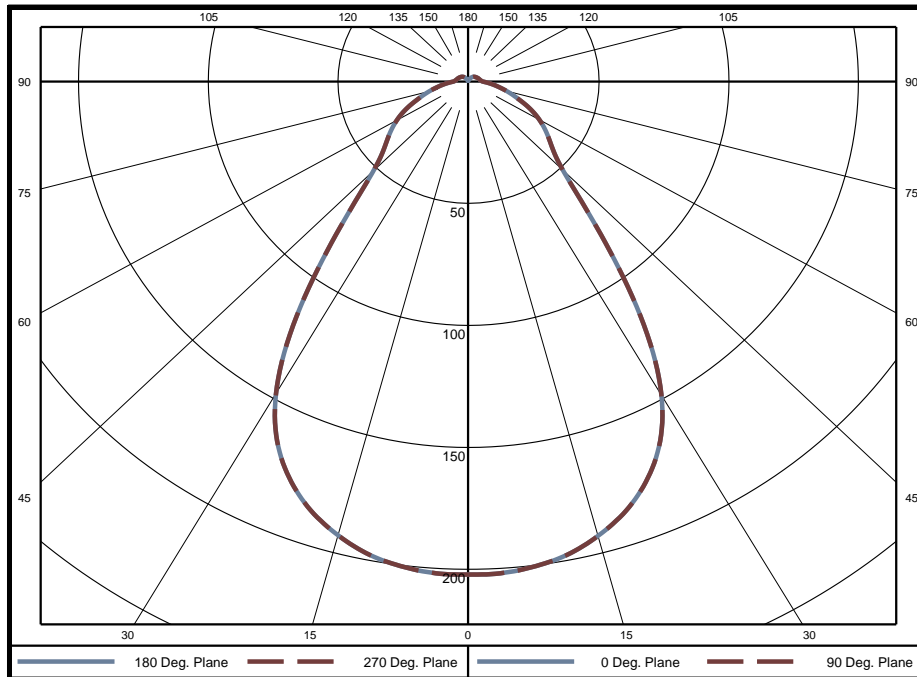
Luminaire Efficacy:

42.2 lm/w

Maximum Candela:

202 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	4.83	1.3%	60-65	14.03	3.8%	120-125	1.58	0.4%
5-10	14.31	3.9%	65-70	11.64	3.2%	125-130	1.38	0.4%
10-15	23.22	6.3%	70-75	9.27	2.5%	130-135	1.17	0.3%
15-20	31.05	8.5%	75-80	7.15	2.0%	135-140	0.94	0.3%
20-25	37.18	10.2%	80-85	5.32	1.5%	140-145	0.71	0.2%
25-30	40.43	11.0%	85-90	3.76	1.0%	145-150	0.48	0.1%
30-35	38.52	10.5%	90-95	2.86	0.8%	150-155	0.28	0.1%
35-40	30.73	8.4%	95-100	2.57	0.7%	155-160	0.17	0.0%
40-45	22.61	6.2%	100-105	2.35	0.6%	160-165	0.09	0.0%
45-50	18.54	5.1%	105-110	2.17	0.6%	165-170	0.07	0.0%
50-55	17.06	4.7%	110-115	1.98	0.5%	170-175	0.04	0.0%
55-60	15.80	4.3%	115-120	1.77	0.5%	175-180	0.01	0.0%

Zone	Lumens	% of Luminaire
0-40	220	60.2%
0-60	294	80.4%
0-90	345	94.4%
90-180	21	5.6%



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	202.1	202.1	202.1	202.1	202.1	202.1	202.1	202.1	202.1	202.1	202.1	202.1	202.1	202.1	202.1	202.1
5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5
10	198.6	198.6	198.6	198.6	198.6	198.6	198.6	198.6	198.6	198.6	198.6	198.6	198.6	198.6	198.6	198.6
15	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6
20	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8
25	170.2	170.2	170.2	170.2	170.2	170.2	170.2	170.2	170.2	170.2	170.2	170.2	170.2	170.2	170.2	170.2
30	147.9	147.9	147.9	147.9	147.9	147.9	147.9	147.9	147.9	147.9	147.9	147.9	147.9	147.9	147.9	147.9
35	112.3	112.3	112.3	112.3	112.3	112.3	112.3	112.3	112.3	112.3	112.3	112.3	112.3	112.3	112.3	112.3
40	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
45	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
50	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
55	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
60	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6
65	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
70	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
75	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
80	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
85	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
90	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
95	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
100	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
105	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
110	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
115	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
120	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
125	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
130	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
135	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
140	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
145	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
150	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
155	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
160	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
165	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
170	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
175	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
180	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

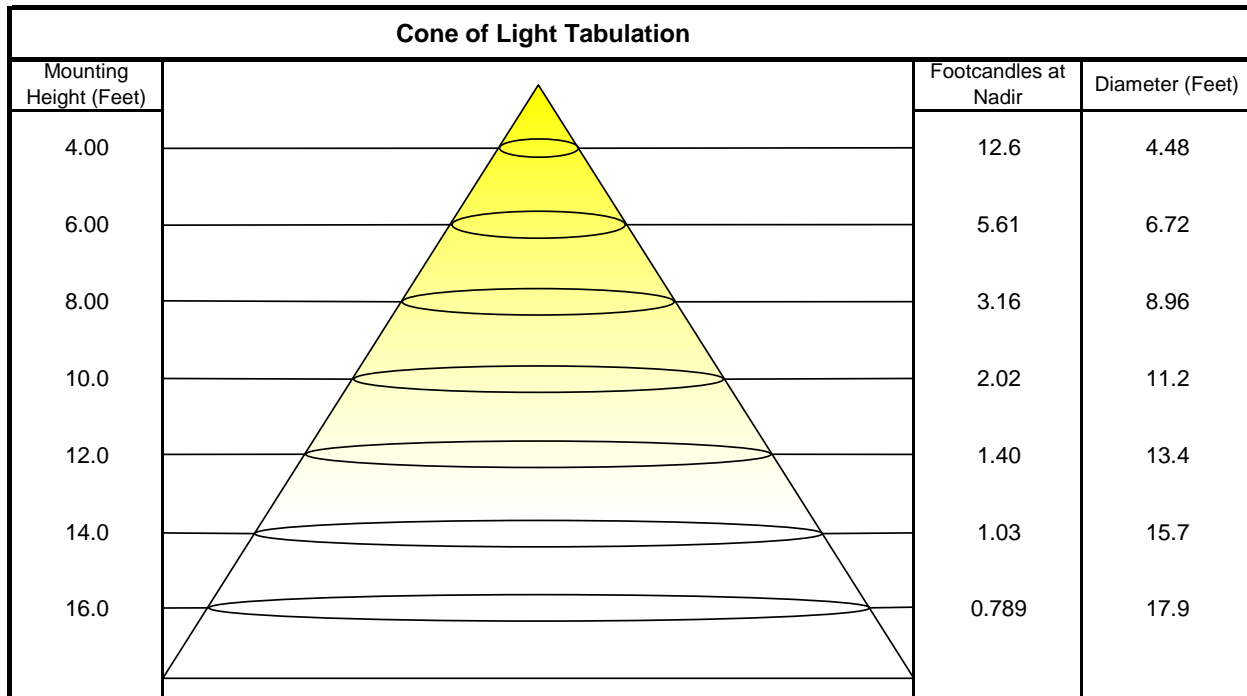
	0	45	90
0	177200	177200	177200
45	63600	63600	63600
55	56140	56140	56140
65	53980	53980	53980
75	52390	52390	52390
85	82970	82970	82970



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	431	431	431	431	418	418	418	418	395	395	395	374	374	374	355	355	355	345
1	398	382	368	356	386	372	359	348	353	343	333	335	327	319	319	313	307	298
2	367	341	319	301	356	333	313	296	317	300	286	302	288	277	288	277	268	259
3	340	307	281	260	330	300	276	256	286	266	249	274	257	243	262	248	236	228
4	316	278	250	228	307	272	246	226	260	238	221	250	231	216	240	224	211	203
5	294	253	224	203	286	248	221	201	238	215	197	229	209	193	221	204	190	182
6	275	232	203	182	267	227	200	181	219	195	178	211	191	175	204	186	172	165
7	257	214	185	165	250	210	183	164	203	179	161	196	175	159	190	171	157	150
8	242	197	170	151	235	194	168	150	188	164	148	182	161	146	177	158	144	137
9	227	183	156	138	222	181	155	137	175	152	136	170	149	134	165	146	132	126
10	215	171	145	128	209	169	144	127	164	141	125	159	139	124	155	136	123	117

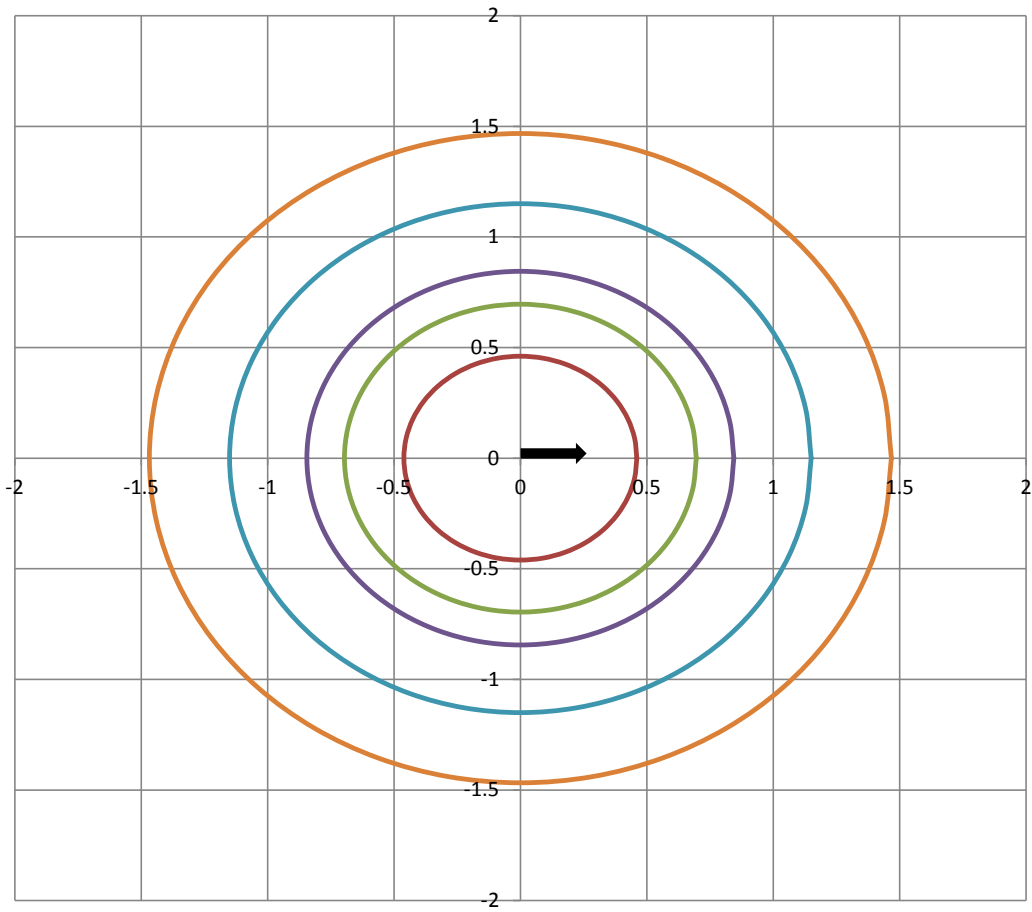
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	202.1 Candela
Central Cone Intensity:	202 Candela
Beam Flux:	198.7 Lumens
Beam Angle (0-180):	72.8 Degrees
Beam Angle (90-270):	72.8 Degrees
Field Angle (0-180):	139.8 Degrees
Field Angle (90-270):	139.8 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

