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Indoor Distribution Test Report

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

Prepared For
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Catalog Number
2570
Order Number
11526201
Test Number
11526201.03

Test Date
2016-11-14

Prepared By

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Approved By

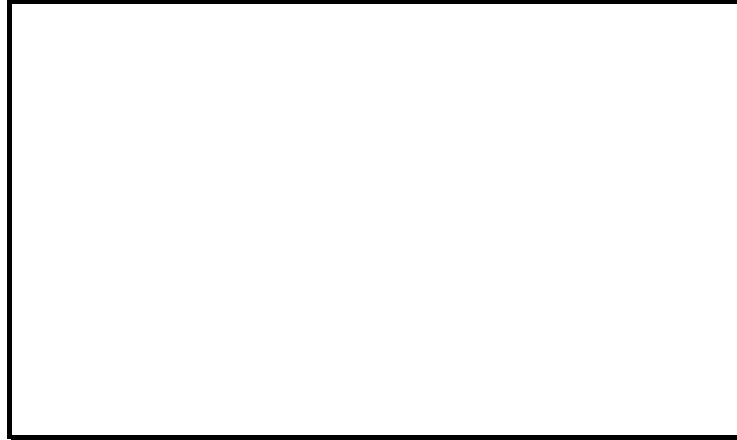
Edward Bush, Project Handler

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Luminaire Description: Formed aluminum housing, frosted lens
Mounting: Pendant
Ballast/Driver: LTF TA75WA24LED-0000

Luminaire



Luminaire Characteristics

Luminous Length: 5.00 in.
Luminous Width: 5.000 in.

Summary of Results

Total Luminaire Output: 345.0 Lumens
Luminaire Efficacy: 34.1 lm/w
Maximum Candela: 139 Candela

Test Conditions

Test Temperature: 24.7 °C
Voltage: 120.0 VAC
Current: 0.08911 A
Power: 10.12 W
Power Factor: 0.946
Frequency: 60 Hz
Current THD: 33.4 %

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



Distribution - Goniophotometer

Distribution Test Conditions

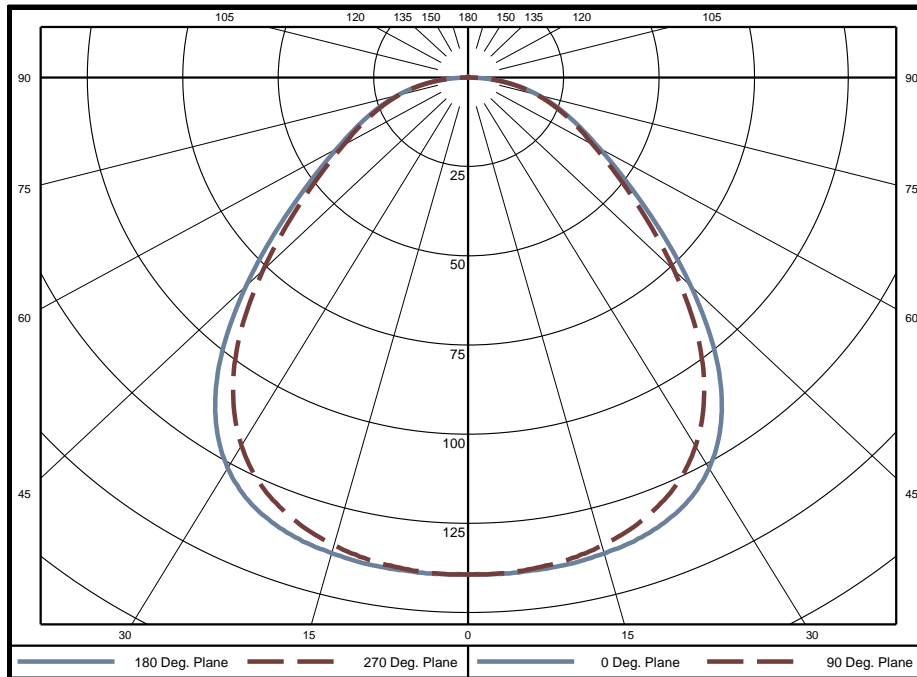
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.08911 A	10.12 W	0.946	60 Hz	33.4 %

Summary of Results

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

Total Lumen Output: 345.0 Lumens
Luminaire Efficacy: 34.1 lm/w
Maximum Candela: 139 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	3.33	1.0%	60-65	16.98	4.9%	120-125	0.02	0.0%
5-10	9.93	2.9%	65-70	14.20	4.1%	125-130	0.03	0.0%
10-15	16.35	4.7%	70-75	11.42	3.3%	130-135	0.03	0.0%
15-20	22.38	6.5%	75-80	8.46	2.5%	135-140	0.04	0.0%
20-25	27.76	8.0%	80-85	5.16	1.5%	140-145	0.04	0.0%
25-30	32.05	9.3%	85-90	1.56	0.5%	145-150	0.05	0.0%
30-35	34.61	10.0%	90-95	0.02	0.0%	150-155	0.04	0.0%
35-40	34.87	10.1%	95-100	0.01	0.0%	155-160	0.04	0.0%
40-45	32.63	9.5%	100-105	0.01	0.0%	160-165	0.03	0.0%
45-50	28.57	8.3%	105-110	0.01	0.0%	165-170	0.02	0.0%
50-55	24.11	7.0%	110-115	0.01	0.0%	170-175	0.01	0.0%
55-60	20.17	5.8%	115-120	0.01	0.0%	175-180	0.00	0.0%

Zone	Lumens	% of Luminaire
0-40	181	52.5%
0-60	287	83.1%
0-90	345	99.9%
90-180	0	0.1%



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	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3
5	139.3	139.3	139.3	139.0	139.2	139.0	139.3	139.3	139.3	139.3	139.3	139.0	139.2	139.0	139.3	139.3
10	139.0	139.0	138.5	138.0	138.1	138.0	138.5	139.0	139.0	139.0	138.5	138.0	138.1	138.0	138.5	139.0
15	138.1	137.8	137.0	136.1	135.9	136.1	137.0	137.8	138.1	137.8	137.0	136.1	135.9	136.1	137.0	137.8
20	136.3	135.8	134.4	133.0	132.4	133.0	134.4	135.8	136.3	135.8	134.4	133.0	132.4	133.0	134.4	135.8
25	132.9	132.0	130.0	128.0	127.4	128.0	130.0	132.0	132.9	132.0	130.0	128.0	127.4	128.0	130.0	132.0
30	126.5	125.2	122.7	120.2	119.4	120.2	122.7	125.2	126.5	125.2	122.7	120.2	119.4	120.2	122.7	125.2
35	115.9	114.4	111.7	109.0	108.1	109.0	111.7	114.4	115.9	114.4	111.7	109.0	108.1	109.0	111.7	114.4
40	100.8	99.4	96.8	94.3	93.4	94.3	96.8	99.4	100.8	99.4	96.8	94.3	93.4	94.3	96.8	99.4
45	82.7	81.5	79.3	77.3	76.6	77.3	79.3	81.5	82.7	81.5	79.3	77.3	76.6	77.3	79.3	81.5
50	65.1	64.1	62.5	61.0	60.7	61.0	62.5	64.1	65.1	64.1	62.5	61.0	60.7	61.0	62.5	64.1
55	50.6	50.0	49.0	48.0	47.8	48.0	49.0	50.0	50.6	50.0	49.0	48.0	47.8	48.0	49.0	50.0
60	39.9	39.4	38.8	38.1	38.0	38.1	38.8	39.4	39.9	39.4	38.8	38.1	38.0	38.1	38.8	39.4
65	32.0	31.7	31.3	30.9	30.9	30.9	31.3	31.7	32.0	31.7	31.3	30.9	30.9	30.9	31.3	31.7
70	25.3	25.1	24.9	24.6	24.6	24.6	24.9	25.1	25.3	25.1	24.9	24.6	24.6	24.6	24.9	25.1
75	19.1	19.0	18.8	18.7	18.7	18.7	18.8	19.0	19.1	19.0	18.8	18.7	18.7	18.7	18.8	19.0
80	12.9	12.8	12.7	12.6	12.7	12.6	12.7	12.8	12.9	12.8	12.7	12.6	12.7	12.6	12.7	12.8
85	6.3	6.2	6.1	6.2	6.2	6.2	6.1	6.2	6.3	6.2	6.1	6.2	6.2	6.2	6.1	6.2
90	0.0	0.2	0.2	0.1	0.0	0.1	0.2	0.2	0.0	0.2	0.2	0.1	0.0	0.1	0.2	0.2
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1
130	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
135	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
140	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
145	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
150	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
155	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
160	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
165	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
170	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
175	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
180	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

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

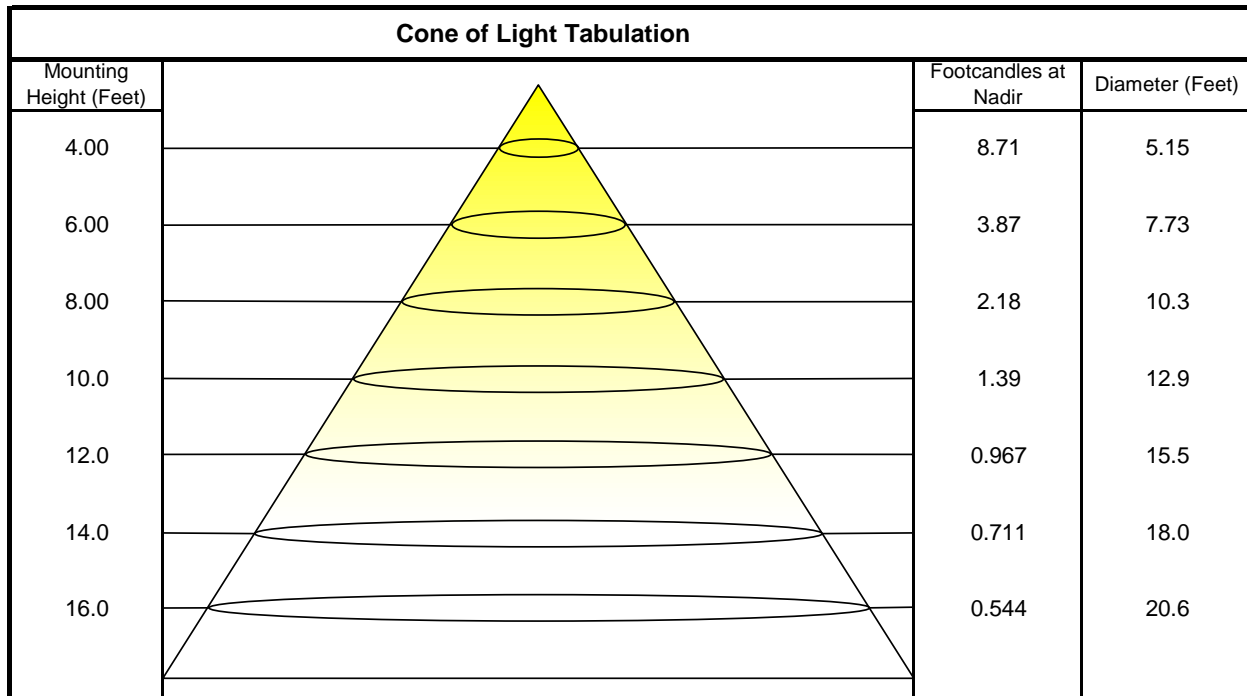
	0	45	90
0	8637	8637	8637
45	7248	6952	6717
55	5472	5293	5162
65	4696	4595	4530
75	4581	4504	4474
85	4453	4369	4428



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	411	411	411	411	401	401	401	401	383	383	383	367	367	367	352	352	352	345
1	377	362	348	335	368	354	341	330	339	329	319	326	317	310	313	307	300	293
2	346	319	297	278	337	312	292	275	300	283	268	289	275	262	279	267	256	249
3	317	283	257	235	309	278	253	233	267	246	229	258	240	225	249	234	221	214
4	292	253	224	203	285	249	222	201	240	217	198	232	212	196	225	207	193	186
5	270	228	198	177	263	224	196	176	217	192	174	210	189	172	204	185	170	163
6	250	207	177	156	244	203	175	155	197	172	154	191	169	153	186	166	151	144
7	233	188	159	139	227	185	158	138	180	155	137	175	153	136	171	151	135	129
8	217	172	144	125	212	170	143	124	166	141	124	161	139	123	157	137	122	116
9	203	159	131	113	199	157	131	113	153	129	112	149	127	112	146	126	111	105
10	191	147	121	103	187	145	120	103	142	118	102	139	117	102	136	116	101	95

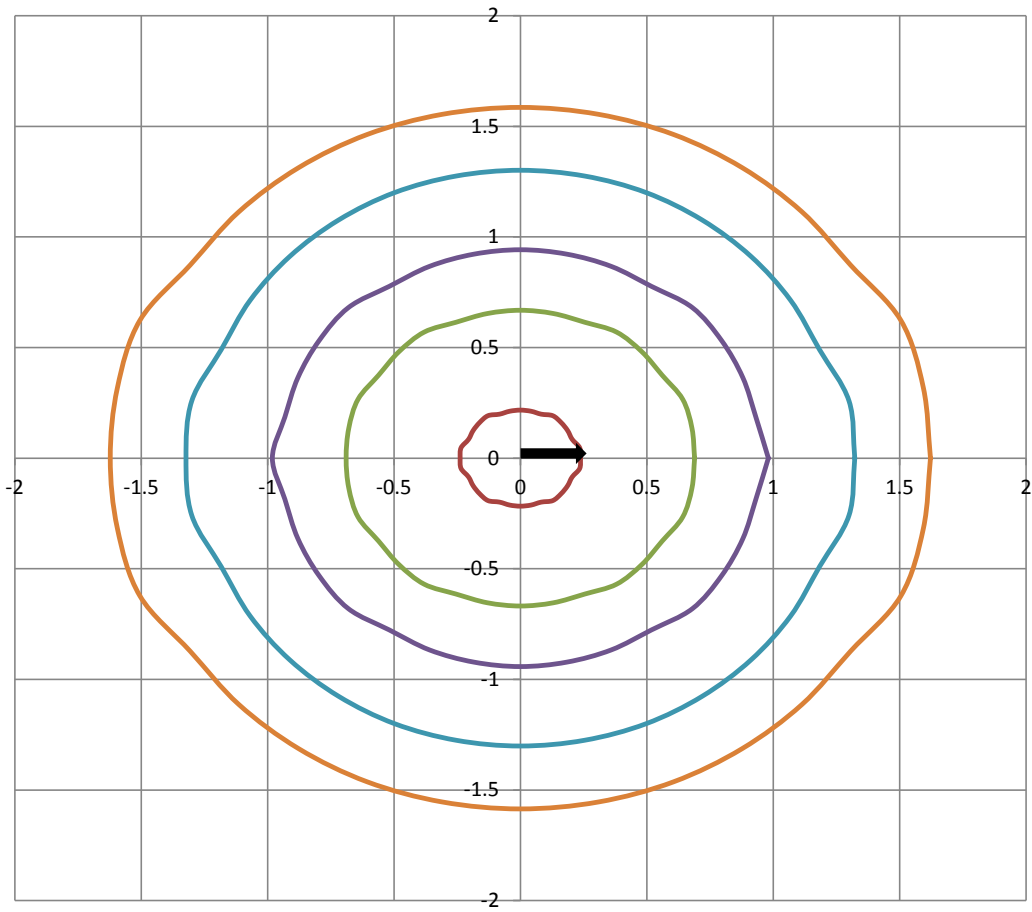
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	139.3 Candela
Central Cone Intensity:	139 Candela
Beam Flux:	230.5 Lumens
Beam Angle (0-180):	97.3 Degrees
Beam Angle (90-270):	94.2 Degrees
Field Angle (0-180):	158.4 Degrees
Field Angle (90-270):	158.0 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

