



UL Verification Services Inc.
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Indoor Distribution Test Report

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

Prepared For
Sonneman

Nicolas Carmichael
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PO Box 394
Wappingers Falls, NY 12590
United States

Catalog Number

2572

Order Number

11526201

Test Number

11526201.04

Test Date

2016-11-14

Prepared By

Derek Smarr, Technician

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
Mounting: Pendant
Ballast/Driver: LTF TA75WA24LED-0000

Luminaire



Luminaire Characteristics

Luminous Length: 13.75 in.
Luminous Width: 5.000 in.

Summary of Results

Total Luminaire Output: 677.3 Lumens
Luminaire Efficacy: 36.6 lm/w
Maximum Candela: 269 Candela

Test Conditions

Test Temperature: 24.7 °C
Voltage: 120.0 VAC
Current: 0.1636 A
Power: 18.52 W
Power Factor: 0.943
Frequency: 60 Hz
Current THD: 34.9 %

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	0.1636 A	18.52 W	0.943	60 Hz	34.9 %

Summary of Results

Spacing Criteria

0-180: 1.39
90-270: 1.39

Total Lumen Output:

677.3 Lumens

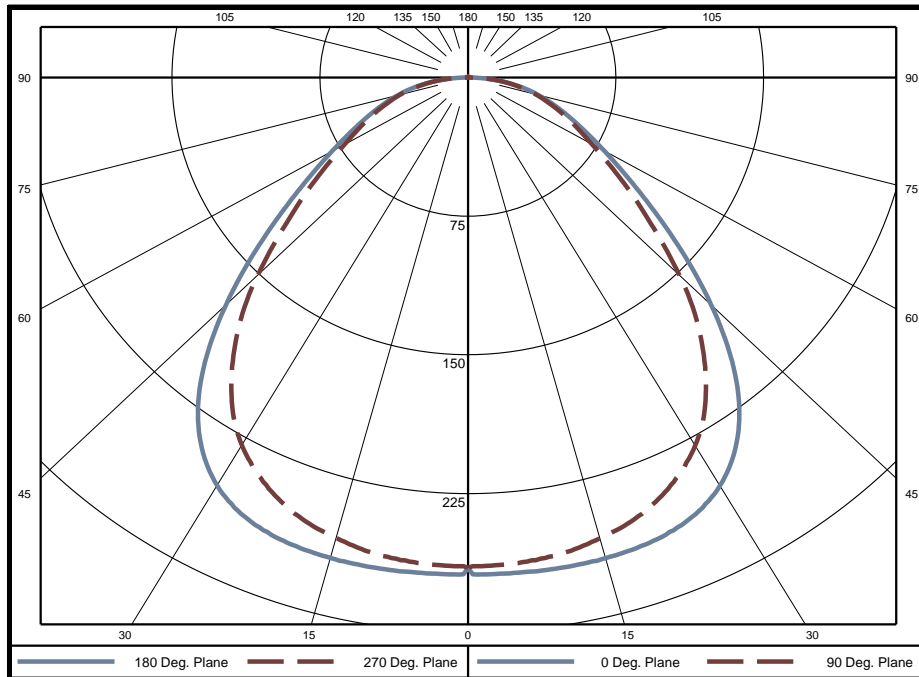
Luminaire Efficacy:

36.6 lm/w

Maximum Candela:

269 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	6.34	0.9%	60-65	32.75	4.8%	120-125	0.04	0.0%
5-10	18.94	2.8%	65-70	27.00	4.0%	125-130	0.05	0.0%
10-15	31.23	4.6%	70-75	21.70	3.2%	130-135	0.07	0.0%
15-20	42.94	6.3%	75-80	16.26	2.4%	135-140	0.08	0.0%
20-25	53.61	7.9%	80-85	9.96	1.5%	140-145	0.08	0.0%
25-30	62.46	9.2%	85-90	3.06	0.5%	145-150	0.09	0.0%
30-35	68.32	10.1%	90-95	0.03	0.0%	150-155	0.08	0.0%
35-40	69.80	10.3%	95-100	0.03	0.0%	155-160	0.07	0.0%
40-45	66.10	9.8%	100-105	0.02	0.0%	160-165	0.06	0.0%
45-50	57.93	8.6%	105-110	0.02	0.0%	165-170	0.04	0.0%
50-55	48.39	7.1%	110-115	0.02	0.0%	170-175	0.03	0.0%
55-60	39.70	5.9%	115-120	0.03	0.0%	175-180	0.01	0.0%

Zone	Lumens	% of Luminaire
0-40	354	52.2%
0-60	566	83.5%
0-90	676	99.9%
90-180	1	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	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1
5	268.8	266.4	263.7	263.4	263.9	263.4	263.7	266.4	268.8	266.4	263.7	263.4	263.9	263.4	263.7	266.4
10	269.2	266.3	263.1	261.8	262.0	261.8	263.1	266.3	269.2	266.3	263.1	261.8	262.0	261.8	263.1	266.3
15	269.0	265.7	260.9	258.3	257.9	258.3	260.9	265.7	269.0	265.7	260.9	258.3	257.9	258.3	260.9	265.7
20	267.8	263.7	257.5	253.4	252.4	253.4	257.5	263.7	267.8	263.7	257.5	253.4	252.4	253.4	257.5	263.7
25	263.7	259.1	250.9	245.0	243.1	245.0	250.9	259.1	263.7	259.1	250.9	245.0	243.1	245.0	250.9	259.1
30	254.6	249.2	239.7	232.1	230.0	232.1	239.7	249.2	254.6	249.2	239.7	232.1	230.0	232.1	239.7	249.2
35	237.4	231.6	220.9	212.4	209.8	212.4	220.9	231.6	237.4	231.6	220.9	212.4	209.8	212.4	220.9	231.6
40	210.0	204.2	194.1	186.1	183.3	186.1	194.1	204.2	210.0	204.2	194.1	186.1	183.3	186.1	194.1	204.2
45	173.5	168.8	160.3	153.4	151.4	153.4	160.3	168.8	173.5	168.8	160.3	153.4	151.4	153.4	160.3	168.8
50	135.5	132.0	125.4	121.1	118.9	121.1	125.4	132.0	135.5	132.0	125.4	121.1	118.9	121.1	125.4	132.0
55	103.3	101.0	96.9	93.7	93.1	93.7	96.9	101.0	103.3	101.0	96.9	93.7	93.1	93.7	96.9	101.0
60	79.7	78.0	75.2	73.4	72.7	73.4	75.2	78.0	79.7	78.0	75.2	73.4	72.7	73.4	75.2	78.0
65	62.1	61.2	59.5	58.5	58.4	58.5	59.5	61.2	62.1	61.2	59.5	58.5	58.4	58.5	59.5	61.2
70	48.7	48.1	47.0	46.3	46.3	46.3	47.0	48.1	48.7	48.1	47.0	46.3	46.3	46.3	47.0	48.1
75	36.8	36.4	35.8	35.6	35.6	35.6	35.8	36.4	36.8	36.4	35.8	35.6	35.6	35.6	35.8	36.4
80	25.1	24.8	24.4	24.1	24.1	24.1	24.4	24.8	25.1	24.8	24.4	24.1	24.1	24.1	24.4	24.8
85	12.4	12.2	11.8	12.0	12.1	12.0	11.8	12.2	12.4	12.2	11.8	12.0	12.1	12.0	11.8	12.2
90	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2
95	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
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	0.1	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
125	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
130	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
135	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
140	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
145	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
150	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
155	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
160	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4
165	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	0.4
170	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	0.4
175	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	0.4
180	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	0.4

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

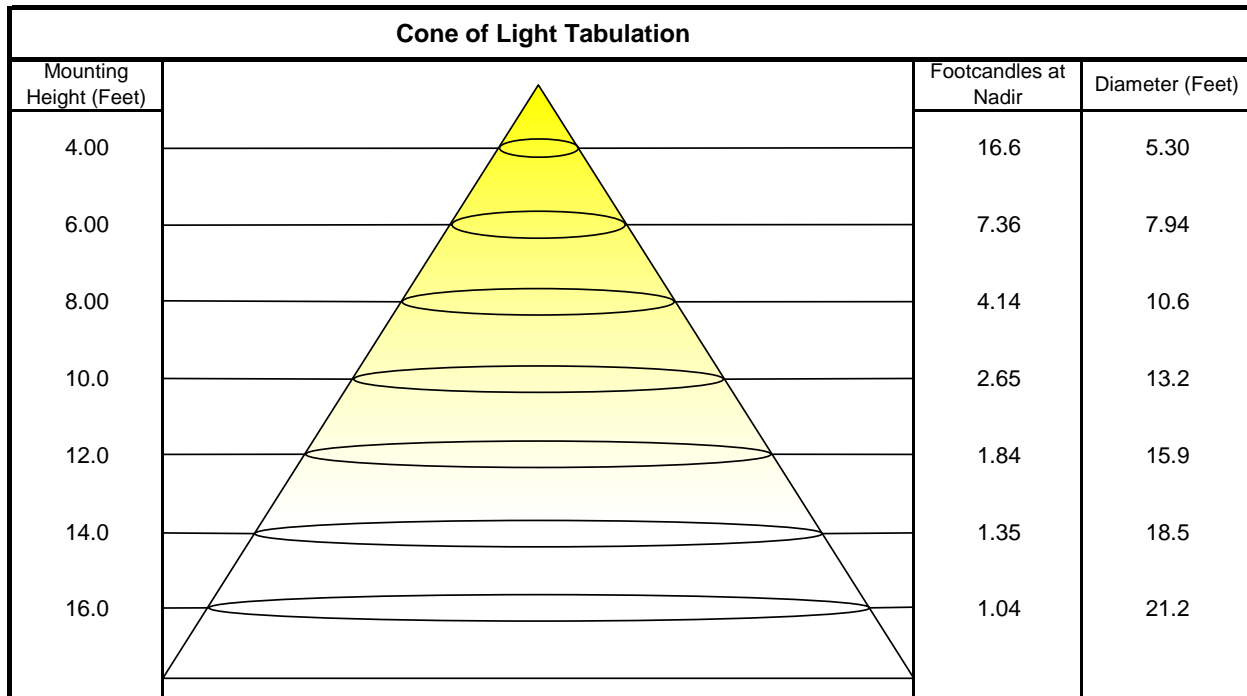
	0	45	90
0	5976	5976	5976
45	5532	5110	4828
55	4061	3809	3661
65	3314	3176	3115
75	3201	3116	3103
85	3203	3058	3139



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	806	806	806	806	787	787	787	787	752	752	752	720	720	720	690	690	690	676
1	741	711	683	659	723	695	670	648	666	646	627	640	623	608	616	602	590	576
2	679	627	583	547	661	614	574	540	590	556	527	568	540	515	547	524	504	490
3	623	556	504	462	607	545	497	458	525	484	450	507	472	442	490	460	435	420
4	574	497	440	397	559	488	435	395	471	425	389	455	416	384	441	407	379	365
5	530	447	389	346	516	440	385	344	425	377	341	412	370	337	400	363	333	320
6	491	405	347	305	478	398	344	304	386	338	301	375	332	299	365	326	296	283
7	457	369	312	272	445	363	309	271	353	304	269	343	299	267	334	295	265	252
8	426	338	282	244	415	333	280	243	324	276	242	316	272	240	308	268	239	226
9	398	311	257	220	389	307	255	220	299	252	219	292	249	218	285	245	216	204
10	374	287	235	201	365	284	234	200	277	231	199	271	228	198	265	226	197	186

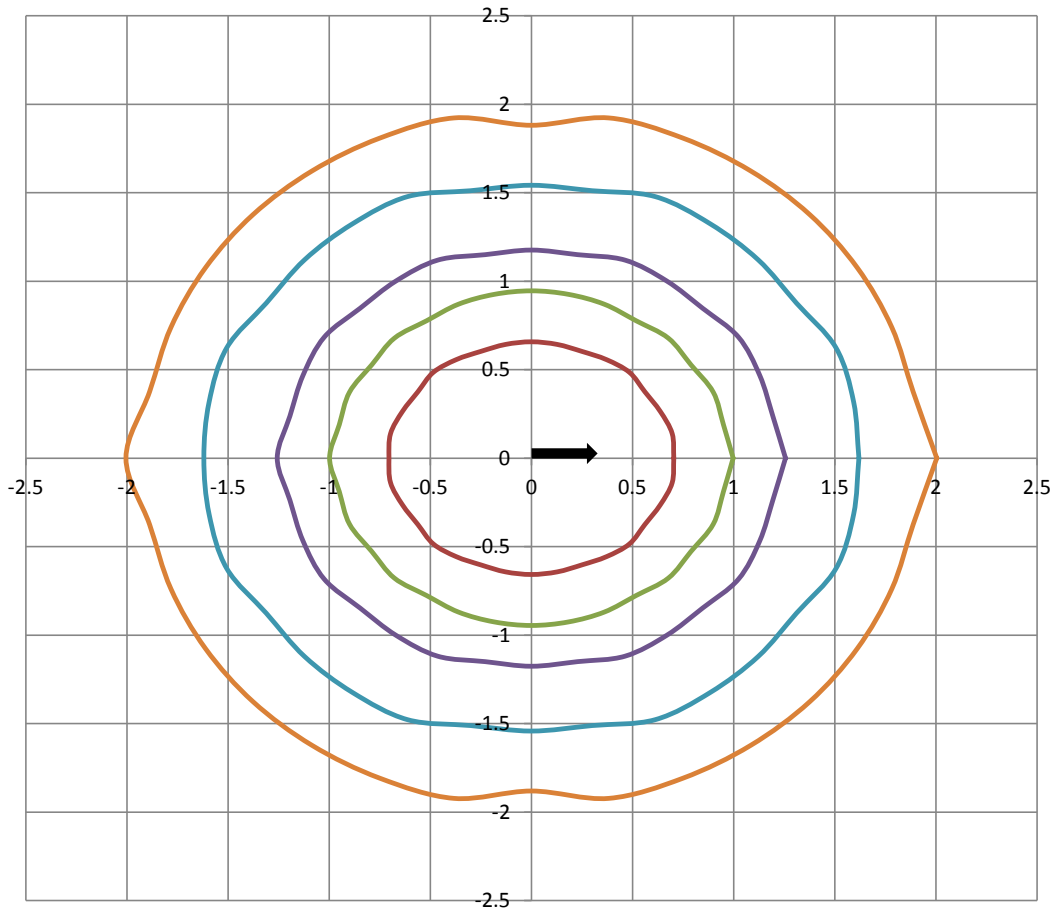
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	265.1 Candela
Central Cone Intensity:	265 Candela
Beam Flux:	467.6 Lumens
Beam Angle (0-180):	100.9 Degrees
Beam Angle (90-270):	95.6 Degrees
Field Angle (0-180):	158.8 Degrees
Field Angle (90-270):	157.9 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

