



UL Verification Services Inc.
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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
2720
Order Number
11526201
Test Number
11526201.12

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, pivoting head
Mounting: Pendant
Ballast/Driver: LTF TA75WA24LED-0000

Luminaire



Luminaire Characteristics

Luminous Length: 34.00 in.
Luminous Width: 3.000 in.

Summary of Results

Total Luminaire Output: 446.3 Lumens
Luminaire Efficacy: 18.8 lm/w
Maximum Candela: 75 Candela

Test Conditions

Test Temperature: 24.7 °C
Voltage: 120.0 VAC
Current: 0.2072 A
Power: 23.80 W
Power Factor: 0.957
Frequency: 60 Hz
Current THD: 30.1 %

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	0.2072 A	23.80 W	0.957	60 Hz	30.1 %

Summary of Results

Spacing Criteria

0-180: 2.13
90-270: 2.13

Total Lumen Output:

446.3 Lumens

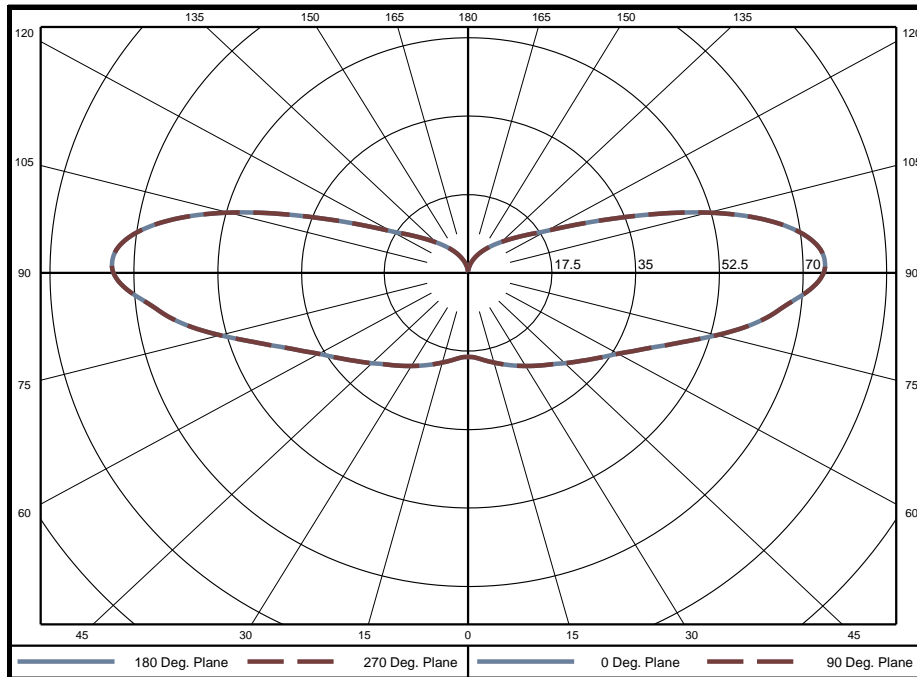
Luminaire Efficacy:

18.8 lm/w

Maximum Candela:

75 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.45	0.1%	60-65	18.55	4.2%	120-125	7.64	1.7%
5-10	1.39	0.3%	65-70	21.81	4.9%	125-130	5.77	1.3%
10-15	2.41	0.5%	70-75	26.02	5.8%	130-135	4.36	1.0%
15-20	3.50	0.8%	75-80	31.00	6.9%	135-140	3.29	0.7%
20-25	4.68	1.0%	80-85	35.43	7.9%	140-145	2.44	0.5%
25-30	5.93	1.3%	85-90	39.35	8.8%	145-150	1.76	0.4%
30-35	7.26	1.6%	90-95	40.63	9.1%	150-155	1.21	0.3%
35-40	8.68	1.9%	95-100	37.81	8.5%	155-160	0.77	0.2%
40-45	10.21	2.3%	100-105	31.52	7.1%	160-165	0.45	0.1%
45-50	11.95	2.7%	105-110	23.32	5.2%	165-170	0.22	0.0%
50-55	13.86	3.1%	110-115	15.84	3.5%	170-175	0.07	0.0%
55-60	15.99	3.6%	115-120	10.71	2.4%	175-180	0.01	0.0%

Zone	Lumens	% of Luminaire
0-40	34	7.7%
0-60	86	19.3%
0-90	258	57.9%
90-180	188	42.1%



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	18.78	18.78	18.78	18.78	18.78	18.78	18.78	18.78	18.78	18.78	18.78	18.78	18.78	18.78	18.78	18.78
5	19.04	19.04	19.04	19.04	19.04	19.04	19.04	19.04	19.04	19.04	19.04	19.04	19.04	19.04	19.04	19.04
10	19.82	19.82	19.82	19.82	19.82	19.82	19.82	19.82	19.82	19.82	19.82	19.82	19.82	19.82	19.82	19.82
15	20.73	20.73	20.73	20.73	20.73	20.73	20.73	20.73	20.73	20.73	20.73	20.73	20.73	20.73	20.73	20.73
20	21.74	21.74	21.74	21.74	21.74	21.74	21.74	21.74	21.74	21.74	21.74	21.74	21.74	21.74	21.74	21.74
25	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84	22.84
30	24.01	24.01	24.01	24.01	24.01	24.01	24.01	24.01	24.01	24.01	24.01	24.01	24.01	24.01	24.01	24.01
35	25.30	25.30	25.30	25.30	25.30	25.30	25.30	25.30	25.30	25.30	25.30	25.30	25.30	25.30	25.30	25.30
40	26.70	26.70	26.70	26.70	26.70	26.70	26.70	26.70	26.70	26.70	26.70	26.70	26.70	26.70	26.70	26.70
45	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53	28.53
50	30.63	30.63	30.63	30.63	30.63	30.63	30.63	30.63	30.63	30.63	30.63	30.63	30.63	30.63	30.63	30.63
55	33.13	33.13	33.13	33.13	33.13	33.13	33.13	33.13	33.13	33.13	33.13	33.13	33.13	33.13	33.13	33.13
60	36.14	36.14	36.14	36.14	36.14	36.14	36.14	36.14	36.14	36.14	36.14	36.14	36.14	36.14	36.14	36.14
65	40.31	40.31	40.31	40.31	40.31	40.31	40.31	40.31	40.31	40.31	40.31	40.31	40.31	40.31	40.31	40.31
70	46.07	46.07	46.07	46.07	46.07	46.07	46.07	46.07	46.07	46.07	46.07	46.07	46.07	46.07	46.07	46.07
75	53.76	53.76	53.76	53.76	53.76	53.76	53.76	53.76	53.76	53.76	53.76	53.76	53.76	53.76	53.76	53.76
80	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88
85	68.51	68.51	68.51	68.51	68.51	68.51	68.51	68.51	68.51	68.51	68.51	68.51	68.51	68.51	68.51	68.51
90	74.25	74.25	74.25	74.25	74.25	74.25	74.25	74.25	74.25	74.25	74.25	74.25	74.25	74.25	74.25	74.25
95	73.02	73.02	73.02	73.02	73.02	73.02	73.02	73.02	73.02	73.02	73.02	73.02	73.02	73.02	73.02	73.02
100	65.08	65.08	65.08	65.08	65.08	65.08	65.08	65.08	65.08	65.08	65.08	65.08	65.08	65.08	65.08	65.08
105	52.01	52.01	52.01	52.01	52.01	52.01	52.01	52.01	52.01	52.01	52.01	52.01	52.01	52.01	52.01	52.01
110	37.29	37.29	37.29	37.29	37.29	37.29	37.29	37.29	37.29	37.29	37.29	37.29	37.29	37.29	37.29	37.29
115	25.95	25.95	25.95	25.95	25.95	25.95	25.95	25.95	25.95	25.95	25.95	25.95	25.95	25.95	25.95	25.95
120	18.65	18.65	18.65	18.65	18.65	18.65	18.65	18.65	18.65	18.65	18.65	18.65	18.65	18.65	18.65	18.65
125	14.72	14.72	14.72	14.72	14.72	14.72	14.72	14.72	14.72	14.72	14.72	14.72	14.72	14.72	14.72	14.72
130	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90
135	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75
140	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04
145	6.61	6.61	6.61	6.61	6.61	6.61	6.61	6.61	6.61	6.61	6.61	6.61	6.61	6.61	6.61	6.61
150	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35
155	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21
160	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17
165	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23
170	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38
175	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
180	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29

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

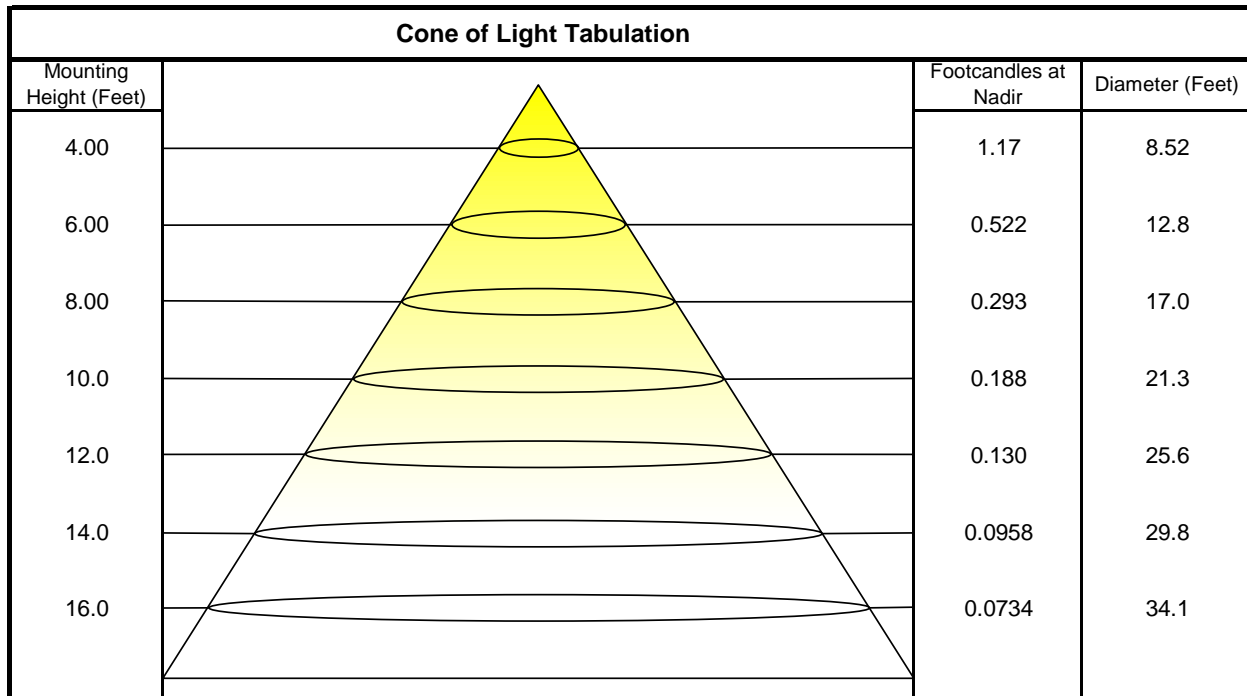
	0	45	90
0	285	285	285
45	613	613	613
55	878	878	878
65	1450	1450	1450
75	3156	3156	3156
85	11940	11940	11940



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	487	487	487	487	453	453	453	453	392	392	392	335	335	335	283	283	283	258
1	409	374	343	315	376	345	317	292	290	268	248	240	223	207	194	181	168	145
2	360	310	269	234	330	285	248	216	238	208	182	194	171	150	154	136	120	98
3	323	264	219	183	294	242	202	169	202	169	142	164	138	116	128	108	91	71
4	292	229	183	148	266	210	169	136	175	141	114	142	115	93	111	89	72	55
5	266	201	156	122	243	185	144	113	154	120	95	125	98	76	98	76	59	43
6	244	179	135	103	223	164	124	95	137	104	80	111	85	64	88	66	49	36
7	225	160	118	89	205	147	109	82	123	91	68	101	75	55	79	58	42	30
8	208	144	104	77	190	133	96	71	112	81	59	92	66	48	73	52	37	25
9	194	131	93	67	177	121	86	62	102	73	52	84	60	42	67	47	32	22
10	181	120	83	59	166	111	77	55	94	65	46	77	54	37	62	43	29	19

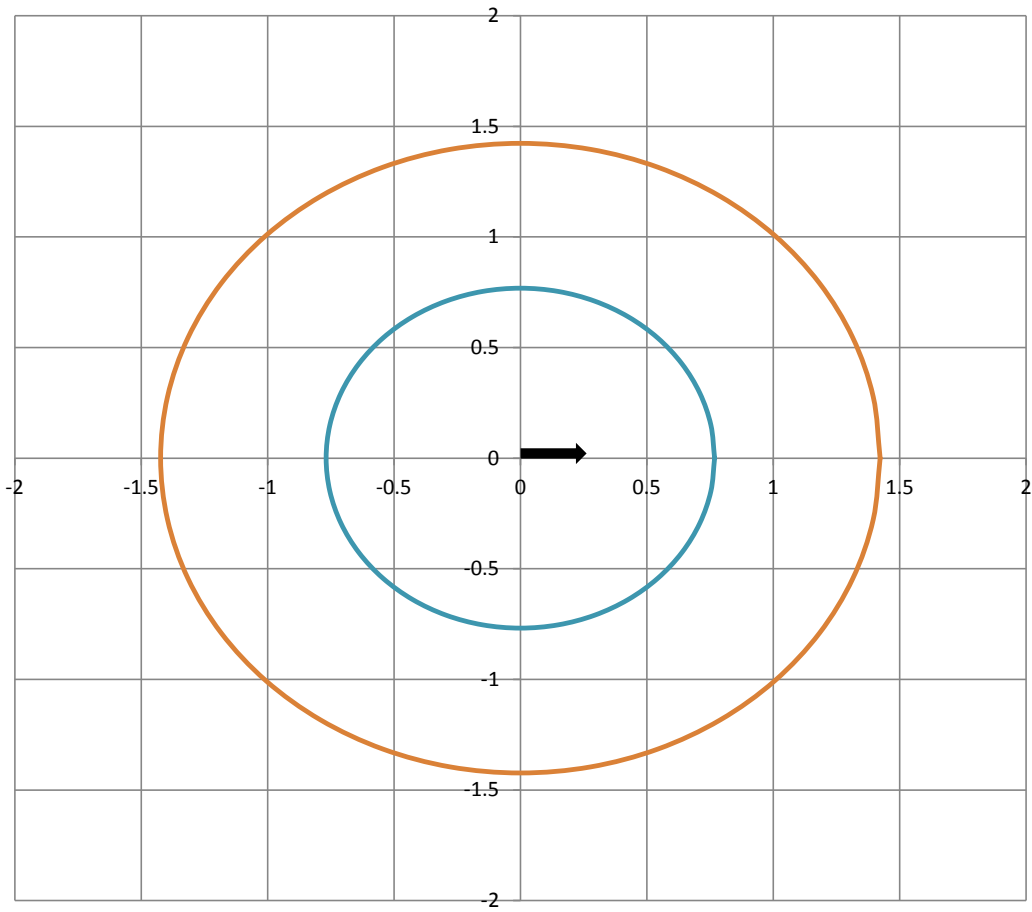
Beam and Field Information	
CIE Type:	Direct/Indirect
Center Beam Intensity:	18.78 Candela
Central Cone Intensity:	19 Candela
Beam Flux:	436.8 Lumens
Beam Angle (0-180):	271.9 Degrees
Beam Angle (90-270):	271.9 Degrees
Field Angle (0-180):	334.0 Degrees
Field Angle (90-270):	334.0 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

