



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : TALEDHT-WALL\_P.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] H215C  
 [TESTLAB] Lumentra, Inc.  
 [MORE] 160 Frobisher Drive, Unit 5  
 [MORE] Waterloo, Ontario  
 [MORE] NVLAP LAB CODE 500084-0  
 [ISSUEDATE] 02-28-2014  
 [MANUFAC] BEGHELLI CANADA  
 [MORE] MARKHAM, ONTARIO  
 [LUMCAT] TALEDHT-WALL-P  
 [LUMINAIRE] BEGHELLI TEMPESTA LED EMERGENCY LUMINAIRE  
 [MORE] WITH SPECULAR INTERIOR AND LINEAR PRISMATIC DIFFUSING LENS  
 [LAMP] 80 WHITE LEDS. LUMEN OUTPUT = 995 LMS.  
 [OTHER] CUSTOM BEGHELLI LED CHARGER DRIVER (ON BATTERY POWER)  
 [OTHER] ABSOLUTE PHOTOMETRY

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	995
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	17
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	3.58
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	2.04
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	1.27 ft
Luminous Height	0.42 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7288	6268	5556
55	7197	5982	4693
65	7064	5714	3735
75	6834	5386	2771
85	6660	5162	2226

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	79.664	79.664	79.664	79.664	79.664	79.664	79.664	79.664	79.664
2.5	88.427	88.427	86.833	84.444	82.054	75.681	70.901	68.511	66.918
5.0	103.563	101.173	96.393	89.223	81.257	71.697	63.731	58.951	57.358
7.5	117.106	113.919	105.156	94.003	81.257	66.918	56.561	50.188	48.595
10.0	131.445	126.665	114.716	97.986	80.460	62.138	50.188	43.018	40.628
12.5	145.785	140.208	123.479	101.970	79.664	58.155	44.612	36.645	34.255
15.0	160.921	152.954	132.242	105.156	78.070	54.171	39.035	31.069	28.679
17.5	176.057	166.497	141.005	108.343	76.477	50.188	34.255	25.492	23.102
20.0	191.193	180.040	149.768	110.733	74.884	46.205	29.476	21.509	19.119
22.5	206.329	192.786	157.734	113.919	72.494	42.222	25.492	17.526	15.136
25.0	219.872	204.736	165.700	115.512	70.901	38.239	21.509	14.339	11.950
27.5	231.821	215.889	172.074	116.309	68.511	35.052	18.323	11.153	9.560
30.0	243.771	226.245	178.447	117.106	66.121	31.865	15.136	8.763	7.170
32.5	256.517	236.601	184.820	117.902	62.934	28.679	12.746	6.373	4.780
35.0	267.670	246.161	190.396	118.699	60.544	25.492	10.356	3.983	2.390
37.5	277.230	254.924	195.176	118.699	58.155	23.102	7.966	2.390	0.797
40.0	286.789	262.094	199.956	117.902	54.968	19.916	6.373	0.797	0.000
42.5	296.349	270.060	203.142	117.902	52.578	17.526	3.983	0.000	0.000
45.0	304.315	277.230	207.126	117.106	49.391	15.136	2.390	0.000	0.000
47.5	312.282	284.399	210.312	116.309	46.205	13.543	0.797	0.000	0.000
50.0	319.451	289.976	211.905	114.716	43.815	11.153	0.000	0.000	0.000
52.5	325.825	294.756	214.295	113.122	40.628	9.560	0.000	0.000	0.000
55.0	331.401	298.739	215.092	111.529	37.442	7.966	0.000	0.000	0.000
57.5	336.181	302.722	216.685	109.936	34.255	6.373	0.000	0.000	0.000
60.0	340.961	306.705	217.482	108.343	31.865	4.780	0.000	0.000	0.000
62.5	344.147	309.095	216.685	105.953	28.679	3.983	0.000	0.000	0.000
65.0	345.740	310.688	215.889	103.563	25.492	3.187	0.000	0.000	0.000
67.5	346.537	310.688	214.295	101.173	23.102	3.187	0.000	0.000	0.000
70.0	347.334	309.892	212.702	98.783	20.713	3.187	0.000	0.000	0.000
72.5	346.537	308.299	210.312	95.596	17.526	3.187	0.000	0.000	0.000
75.0	344.147	306.705	207.126	93.207	15.136	3.187	0.000	0.000	0.000
77.5	342.554	304.315	204.736	90.817	13.543	3.187	0.000	0.000	0.000
80.0	340.164	301.129	201.549	89.223	11.950	3.187	0.000	0.000	0.000
82.5	337.774	298.739	199.159	86.833	10.356	3.187	0.000	0.000	0.000
85.0	334.588	294.756	195.973	84.444	8.763	3.187	0.000	0.000	0.000
87.5	329.808	289.976	191.990	82.054	7.966	3.187	0.000	0.000	0.000
90.0	323.435	284.399	188.006	80.460	7.966	3.187	0.000	0.000	0.000
92.5	317.858	279.620	184.820	78.867	7.966	3.187	0.000	0.000	0.000
95.0	312.282	274.043	180.837	77.274	7.966	3.187	0.000	0.000	0.000
97.5	305.909	267.670	176.057	74.087	7.966	3.187	0.000	0.000	0.000
100.0	298.739	261.297	172.074	72.494	7.966	3.187	0.000	0.000	0.000
102.5	291.569	254.924	167.294	70.104	7.966	3.187	0.000	0.000	0.000
105.0	282.806	246.957	162.514	67.714	8.763	3.187	0.000	0.000	0.000
107.5	274.043	238.991	156.937	64.528	8.763	3.187	0.000	0.000	0.000
110.0	264.483	230.228	151.361	62.934	8.763	2.390	0.000	0.000	0.000
112.5	253.331	220.668	144.988	59.748	9.560	2.390	0.000	0.000	0.000
115.0	242.974	211.109	138.615	57.358	9.560	2.390	0.000	0.000	0.000
117.5	231.821	202.346	133.038	54.968	10.356	2.390	0.000	0.000	0.000
120.0	220.668	191.990	125.869	53.375	10.356	2.390	0.000	0.000	0.000
122.5	208.719	181.633	119.496	50.985	11.153	3.187	0.000	0.000	0.000
125.0	196.769	171.277	113.122	48.595	11.153	3.187	0.000	0.000	0.000
127.5	185.616	161.717	107.546	46.205	11.950	3.187	0.797	0.000	0.000
130.0	173.667	151.361	101.173	44.612	11.950	3.983	0.797	0.000	0.000
132.5	161.717	141.005	94.800	42.222	12.746	3.983	0.797	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	149.768	131.445	88.427	40.628	12.746	4.780	1.593	0.000	0.000
<b>137.5</b>	138.615	121.089	82.054	38.239	13.543	4.780	1.593	0.797	0.000
<b>140.0</b>	128.259	112.326	76.477	36.645	13.543	5.576	2.390	0.797	0.797
<b>142.5</b>	117.106	102.766	70.901	35.052	14.339	5.576	2.390	1.593	0.797
<b>145.0</b>	106.749	94.003	65.324	33.459	14.339	6.373	3.187	1.593	1.593
<b>147.5</b>	97.190	85.240	59.748	31.865	15.136	7.170	3.983	2.390	2.390
<b>150.0</b>	87.630	77.274	54.968	31.069	15.136	7.966	4.780	3.187	2.390
<b>152.5</b>	78.867	70.104	50.985	29.476	15.933	8.763	5.576	3.983	3.187
<b>155.0</b>	70.901	62.934	47.002	28.679	15.933	9.560	6.373	4.780	3.983
<b>157.5</b>	62.934	57.358	43.815	27.882	16.729	10.356	7.170	5.576	4.780
<b>160.0</b>	56.561	51.781	40.628	27.086	16.729	10.356	7.966	6.373	5.576
<b>162.5</b>	50.985	47.002	37.442	26.289	17.526	11.153	8.763	7.170	6.373
<b>165.0</b>	46.205	43.018	35.052	25.492	17.526	11.950	9.560	7.966	7.966
<b>167.5</b>	41.425	38.239	32.662	25.492	18.323	12.746	10.356	9.560	9.560
<b>170.0</b>	37.442	35.052	30.272	24.696	18.323	14.339	11.950	10.356	10.356
<b>172.5</b>	33.459	31.069	27.882	23.102	18.323	15.136	13.543	11.950	11.950
<b>175.0</b>	29.476	27.882	25.492	22.306	18.323	15.933	15.136	14.339	14.339
<b>177.5</b>	25.492	24.696	23.102	20.713	19.119	17.526	17.526	17.526	17.526
<b>180.0</b>	20.713	20.713	20.713	20.713	20.713	20.713	20.713	20.713	20.713

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	32.23	N.A.	3.20
0-30	75.44	N.A.	7.60
0-40	137.49	N.A.	13.80
0-60	310.71	N.A.	31.20
0-80	519.26	N.A.	52.20
0-90	621.99	N.A.	62.50
10-90	614.25	N.A.	61.80
20-40	105.26	N.A.	10.60
20-50	184.68	N.A.	18.60
40-70	276.28	N.A.	27.80
60-80	208.56	N.A.	21.00
70-80	105.49	N.A.	10.60
80-90	102.72	N.A.	10.30
90-110	178.39	N.A.	17.90
90-120	245.61	N.A.	24.70
90-130	295.85	N.A.	29.70
90-150	351.91	N.A.	35.40
90-180	372.72	N.A.	37.50
110-180	194.33	N.A.	19.50
0-180	994.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	7.74
10-20	24.49
20-30	43.21
30-40	62.05
40-50	79.42
50-60	93.80
60-70	103.07
70-80	105.49
80-90	102.72
90-100	95.17
100-110	83.23
110-120	67.22
120-130	50.24
130-140	34.45
140-150	21.61
150-160	12.48
160-170	6.37
170-180	1.96

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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68	63
1	95	89	83	77	89	83	77	73	71	67	64	61	58	55	52	49	47	42
2	85	75	66	59	78	69	62	56	60	54	49	51	46	42	42	39	36	31
3	76	64	55	47	70	60	51	44	51	44	39	43	38	33	36	32	28	24
4	69	56	46	38	64	52	43	36	44	37	32	38	32	27	31	27	23	19
5	63	49	39	32	58	46	37	30	39	32	26	33	27	23	28	23	19	16
6	58	43	34	27	53	41	32	26	35	28	22	30	24	19	25	20	16	13
7	53	39	30	23	49	36	28	22	31	24	19	27	21	17	22	18	14	11
8	49	35	26	20	45	33	25	19	28	22	17	24	19	14	20	16	12	10
9	46	32	24	18	42	30	22	17	26	19	15	22	17	13	19	14	11	9
10	43	29	21	16	40	27	20	15	24	17	13	20	15	11	17	13	10	8

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**UGR TABLE - CORRECTED**

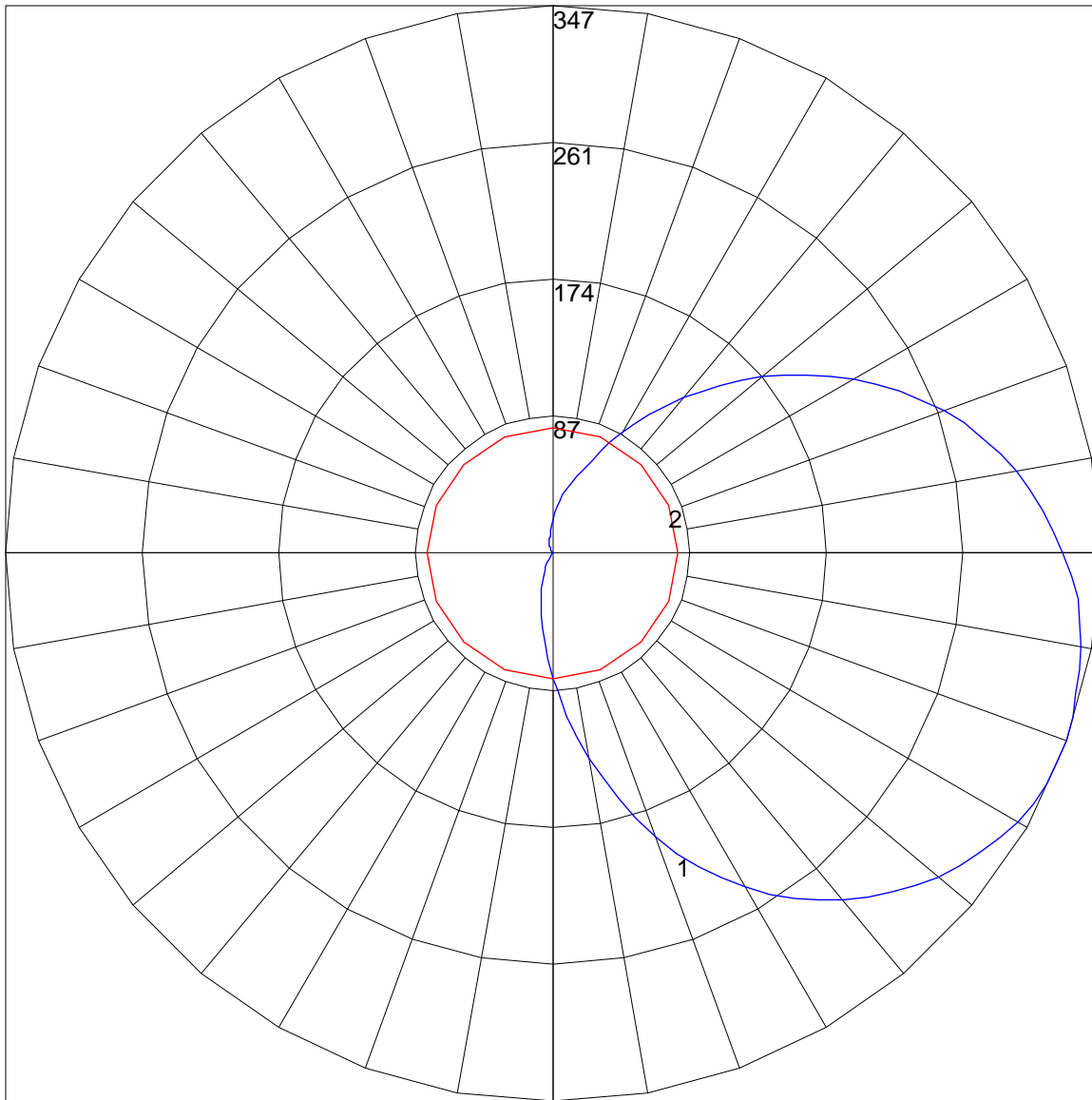
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	19.7	20.8	20.5	21.7	22.8	9.5	10.6	10.3	11.5	12.6
	3H	22.6	23.6	23.4	24.5	25.6	10.7	11.7	11.5	12.6	13.7
	4H	23.9	24.9	24.7	25.8	26.9	11.1	12.1	11.9	13.0	14.1
	6H	25.2	26.2	26.1	27.0	28.2	11.3	12.3	12.2	13.2	14.3
	8H	25.8	26.7	26.7	27.6	28.7	11.4	12.3	12.3	13.2	14.3
	12H	26.4	27.3	27.3	28.2	29.3	11.5	12.3	12.3	13.2	14.4
4H	2H	20.1	21.1	21.0	22.0	23.1	13.2	14.2	14.0	15.1	16.2
	3H	23.3	24.2	24.1	25.1	26.2	14.7	15.6	15.5	16.5	17.6
	4H	24.8	25.7	25.7	26.6	27.7	15.2	16.0	16.1	16.9	18.1
	6H	26.3	27.1	27.2	28.0	29.2	15.6	16.3	16.4	17.2	18.4
	8H	27.1	27.8	28.0	28.7	29.9	15.7	16.4	16.6	17.3	18.5
	12H	27.8	28.5	28.7	29.4	30.6	15.8	16.4	16.7	17.3	18.5
8H	4H	25.1	25.8	26.0	26.7	27.9	17.8	18.5	18.6	19.4	20.6
	6H	26.9	27.5	27.8	28.4	29.6	18.5	19.1	19.4	20.0	21.2
	8H	27.8	28.3	28.7	29.3	30.5	18.7	19.2	19.6	20.2	21.4
	12H	28.7	29.2	29.6	30.2	31.4	18.9	19.4	19.8	20.3	21.5
12H	4H	25.1	25.8	26.0	26.7	27.9	18.6	19.2	19.5	20.2	21.3
	6H	27.0	27.5	27.9	28.5	29.6	19.5	20.0	20.4	21.0	22.2
	8H	28.0	28.4	28.9	29.4	30.6	19.9	20.4	20.8	21.3	22.5

Maximum UGR = 31.4

POLAR GRAPH



Maximum Candela = 347.334 Located At Horizontal Angle = 0, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)