



IES INDOOR REPORT

PHOTOMETRIC FILENAME : TALEDECOSE-WALL.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] TA LED ACEM W (ON BATTERY)
 [LUMINAIRE] BEGHELLI TEMPESTA LED EMERGENCY LUMINAIRE
 [MORE] WITH SPECULAR INTERIOR AND LINEAR PRISMATIC DIFFUSING LENS
 [LAMP] 80 WHITE LEDS. LUMEN OUTPUT = 1049 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	1249
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	208
Total Luminaire Watts	6
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	9149	7868	6974
55	9034	7509	5891
65	8867	7173	4689
75	8579	6761	3478
85	8361	6480	2795

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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	100	100	100	100	100	100	100	100	100
2.5	111	111	109	106	103	95	89	86	84
5.0	130	127	121	112	102	90	80	74	72
7.5	147	143	132	118	102	84	71	63	61
10.0	165	159	144	123	101	78	63	54	51
12.5	183	176	155	128	100	73	56	46	43
15.0	202	192	166	132	98	68	49	39	36
17.5	221	209	177	136	96	63	43	32	29
20.0	240	226	188	139	94	58	37	27	24
22.5	259	242	198	143	91	53	32	22	19
25.0	276	257	208	145	89	48	27	18	15
27.5	291	271	216	146	86	44	23	14	12
30.0	306	284	224	147	83	40	19	11	9
32.5	322	297	232	148	79	36	16	8	6
35.0	336	309	239	149	76	32	13	5	3
37.5	348	320	245	149	73	29	10	3	1
40.0	360	329	251	148	69	25	8	1	0
42.5	372	339	255	148	66	22	5	0	0
45.0	382	348	260	147	62	19	3	0	0
47.5	392	357	264	146	58	17	1	0	0
50.0	401	364	266	144	55	14	0	0	0
52.5	409	370	269	142	51	12	0	0	0
55.0	416	375	270	140	47	10	0	0	0
57.5	422	380	272	138	43	8	0	0	0
60.0	428	385	273	136	40	6	0	0	0
62.5	432	388	272	133	36	5	0	0	0
65.0	434	390	271	130	32	4	0	0	0
67.5	435	390	269	127	29	4	0	0	0
70.0	436	389	267	124	26	4	0	0	0
72.5	435	387	264	120	22	4	0	0	0
75.0	432	385	260	117	19	4	0	0	0
77.5	430	382	257	114	17	4	0	0	0
80.0	427	378	253	112	15	4	0	0	0
82.5	424	375	250	109	13	4	0	0	0
85.0	420	370	246	106	11	4	0	0	0
87.5	414	364	241	103	10	4	0	0	0
90.0	406	357	236	101	10	4	0	0	0
92.5	399	351	232	99	10	4	0	0	0
95.0	392	344	227	97	10	4	0	0	0
97.5	384	336	221	93	10	4	0	0	0
100.0	375	328	216	91	10	4	0	0	0
102.5	366	320	210	88	10	4	0	0	0
105.0	355	310	204	85	11	4	0	0	0
107.5	344	300	197	81	11	4	0	0	0
110.0	332	289	190	79	11	3	0	0	0
112.5	318	277	182	75	12	3	0	0	0
115.0	305	265	174	72	12	3	0	0	0
117.5	291	254	167	69	13	3	0	0	0
120.0	277	241	158	67	13	3	0	0	0
122.5	262	228	150	64	14	4	0	0	0
125.0	247	215	142	61	14	4	0	0	0
127.5	233	203	135	58	15	4	1	0	0
130.0	218	190	127	56	15	5	1	0	0
132.5	203	177	119	53	16	5	1	0	0

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CANDELA TABULATION - (Cont.)

135.0	188	165	111	51	16	6	2	0	0
137.5	174	152	103	48	17	6	2	1	0
140.0	161	141	96	46	17	7	3	1	1
142.5	147	129	89	44	18	7	3	2	1
145.0	134	118	82	42	18	8	4	2	2
147.5	122	107	75	40	19	9	5	3	3
150.0	110	97	69	39	19	10	6	4	3
152.5	99	88	64	37	20	11	7	5	4
155.0	89	79	59	36	20	12	8	6	5
157.5	79	72	55	35	21	13	9	7	6
160.0	71	65	51	34	21	13	10	8	7
162.5	64	59	47	33	22	14	11	9	8
165.0	58	54	44	32	22	15	12	10	10
167.5	52	48	41	32	23	16	13	12	12
170.0	47	44	38	31	23	18	15	13	13
172.5	42	39	35	29	23	19	17	15	15
175.0	37	35	32	28	23	20	19	18	18
177.5	32	31	29	26	24	22	22	22	22
180.0	26	26	26	26	26	26	26	26	26

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	40.46	N.A.	3.20
0-30	94.70	N.A.	7.60
0-40	172.59	N.A.	13.80
0-60	390.02	N.A.	31.20
0-80	651.82	N.A.	52.20
0-90	780.77	N.A.	62.50
10-90	771.05	N.A.	61.80
20-40	132.13	N.A.	10.60
20-50	231.82	N.A.	18.60
40-70	346.81	N.A.	27.80
60-80	261.80	N.A.	21.00
70-80	132.42	N.A.	10.60
80-90	128.95	N.A.	10.30
90-110	223.93	N.A.	17.90
90-120	308.31	N.A.	24.70
90-130	371.37	N.A.	29.70
90-150	441.75	N.A.	35.40
90-180	467.87	N.A.	37.50
110-180	243.94	N.A.	19.50
0-180	1248.64	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	9.72
10-20	30.74
20-30	54.24
30-40	77.89
40-50	99.69
50-60	117.74
60-70	129.38
70-80	132.42
80-90	128.95
90-100	119.46
100-110	104.48
110-120	84.38
120-130	63.06
130-140	43.25
140-150	27.13
150-160	15.66
160-170	8.00
170-180	2.46

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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

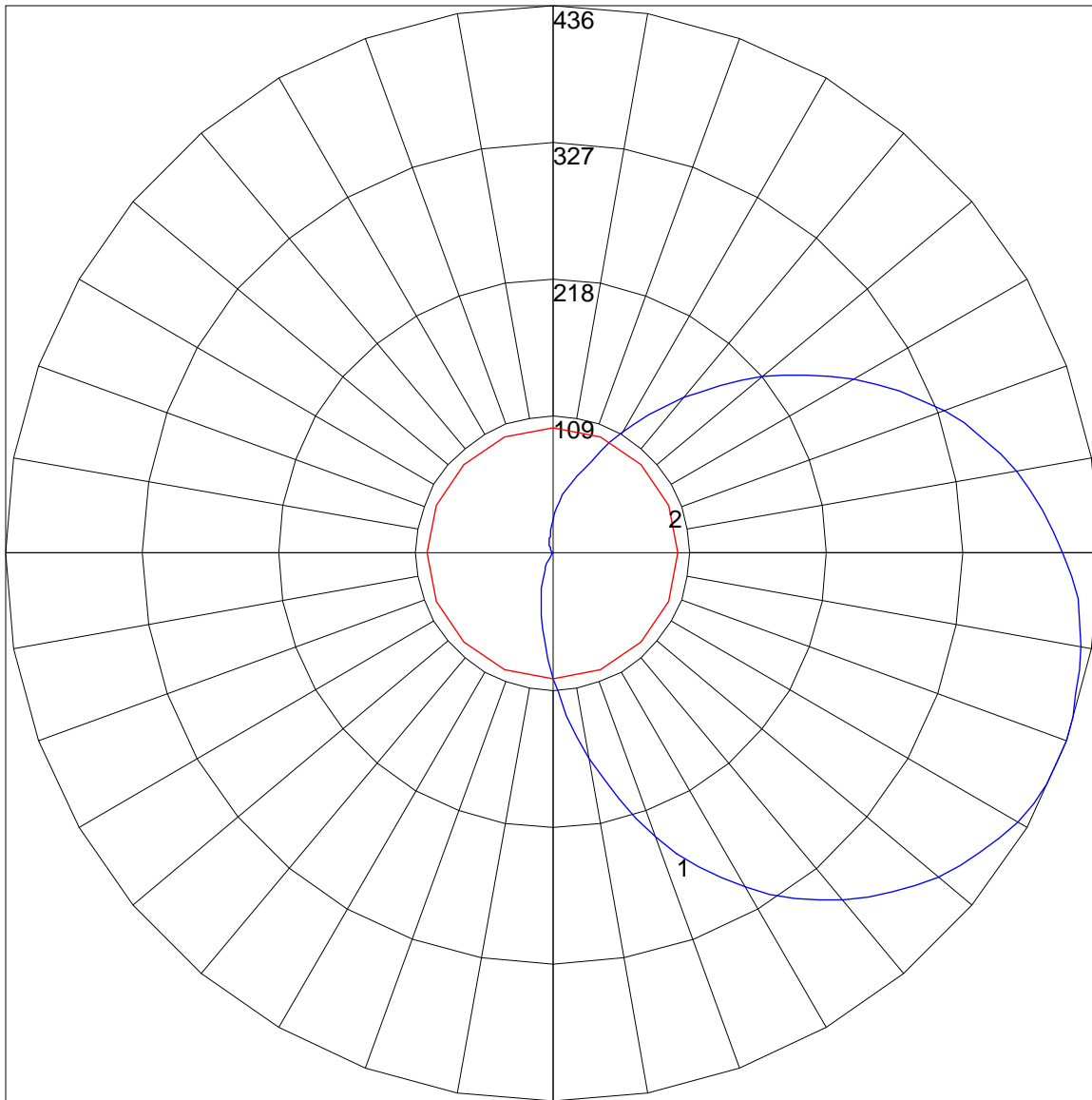
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UGR TABLE - CORRECTED

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	20.6	21.7	21.4	22.6	23.7	10.1	11.3	10.9	12.1	13.2
	3H	23.4	24.5	24.2	25.3	26.4	11.4	12.4	12.2	13.3	14.4
	4H	24.7	25.8	25.6	26.6	27.7	11.8	12.8	12.6	13.7	14.7
	6H	26.0	27.0	26.9	27.9	29.0	12.0	13.0	12.9	13.9	15.0
	8H	26.6	27.6	27.5	28.5	29.6	12.1	13.0	13.0	13.9	15.0
	12H	27.2	28.1	28.1	29.0	30.2	12.2	13.1	13.0	13.9	15.1
4H	2H	21.0	22.0	21.8	22.9	24.0	13.9	15.0	14.8	15.8	16.9
	3H	24.1	25.0	25.0	25.9	27.0	15.4	16.3	16.3	17.2	18.4
	4H	25.7	26.5	26.6	27.4	28.6	16.0	16.8	16.8	17.7	18.8
	6H	27.2	28.0	28.1	28.9	30.0	16.3	17.1	17.2	18.0	19.1
	8H	27.9	28.6	28.8	29.6	30.7	16.4	17.1	17.3	18.0	19.2
	12H	28.6	29.3	29.5	30.2	31.4	16.5	17.1	17.4	18.1	19.2
8H	4H	26.0	26.7	26.8	27.6	28.7	18.6	19.3	19.4	20.2	21.3
	6H	27.7	28.3	28.6	29.3	30.4	19.2	19.8	20.1	20.8	21.9
	8H	28.7	29.2	29.6	30.1	31.3	19.5	20.0	20.4	21.0	22.1
	12H	29.6	30.1	30.5	31.0	32.2	19.6	20.1	20.5	21.1	22.3
12H	4H	26.0	26.6	26.9	27.6	28.7	19.4	20.0	20.3	21.0	22.1
	6H	27.8	28.4	28.7	29.3	30.5	20.3	20.8	21.2	21.8	23.0
	8H	28.8	29.3	29.7	30.2	31.5	20.7	21.2	21.6	22.1	23.3

Maximum UGR = 32.2

POLAR GRAPH



Maximum Candela = 436 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)