



IES INDOOR REPORT

PHOTOMETRIC FILENAME : TALEDECOSE-CEILING.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] H213C
 [TESTLAB] Lumentra, Inc.
 [MORE] 160 Frobisher Drive, Unit 5
 [MORE] Waterloo, Ontario
 [MORE] NVLAP LAB CODE 500084-0
 [ISSUEDATE] 02-27-2014
 [MANUFAC] BEGHELLI CANADA
 [MORE] MARKHAM, ONTARIO
 [LUMCAT] TA LED ACEM C (ON BATTERY)
 [LUMINAIRE] BEGHELLI TEMPESTA LED EMERGENCY LUMINAIRE
 [MORE] WITH SPECULAR INTERIOR AND LINEAR PRISMATIC DIFFUSING LENS
 [LAMP] 80 WHITE LEDS. LUMEN OUTPUT = 1307 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	1309
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	218
Total Luminaire Watts	6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.27 ft
Luminous Width (90-270)	0.42 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6035	6383	6922
55	5321	5989	6825
65	4539	5582	6876
75	3532	5321	7239
85	2017	5767	8664

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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>
0.0	387	387	387	387	387
2.5	388	386	386	386	387
5.0	387	385	386	386	387
7.5	385	384	385	385	385
10.0	382	380	382	382	383
12.5	377	375	377	378	379
15.0	370	369	371	373	374
17.5	362	362	365	368	370
20.0	354	354	358	363	365
22.5	344	345	351	357	360
25.0	333	336	343	351	354
27.5	321	325	334	344	348
30.0	309	313	326	337	341
32.5	296	302	317	330	334
35.0	283	290	307	321	326
37.5	269	277	297	312	317
40.0	255	265	286	303	308
42.5	240	252	275	293	299
45.0	225	238	264	283	289
47.5	210	224	251	272	279
50.0	195	210	239	262	269
52.5	180	196	226	250	258
55.0	165	182	214	239	247
57.5	151	167	201	228	237
60.0	137	153	188	216	226
62.5	122	139	175	204	215
65.0	108	125	162	192	203
67.5	95	112	149	181	192
70.0	81	99	137	169	181
72.5	68	87	125	158	170
75.0	56	75	114	147	159
77.5	44	64	103	137	149
80.0	33	54	94	127	139
82.5	23	46	85	117	129
85.0	15	38	76	107	119
87.5	9	31	67	97	108
90.0	7	25	59	87	97
92.5	6	20	51	77	86
95.0	6	15	43	67	75
97.5	5	12	36	57	65
100.0	5	9	29	49	56
102.5	4	6	24	41	47
105.0	4	4	19	33	39
107.5	3	3	15	27	32
110.0	3	2	11	22	26
112.5	2	1	7	17	21
115.0	2	1	4	13	16
117.5	1	1	2	9	12
120.0	1	0	0	6	9
122.5	0	0	0	3	6
125.0	0	0	0	1	3
127.5	0	0	0	0	1
130.0	0	0	0	0	0
132.5	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

135.0	0	0	0	0	0
137.5	0	0	0	0	0
140.0	0	0	0	0	0
142.5	0	0	0	0	0
145.0	0	0	0	0	0
147.5	0	0	0	0	0
150.0	0	0	0	0	0
152.5	0	0	0	0	0
155.0	0	0	0	0	0
157.5	0	0	0	0	0
160.0	0	0	0	0	0
162.5	0	0	0	0	0
165.0	0	0	0	0	0
167.5	0	0	0	0	0
170.0	0	0	0	0	0
172.5	0	0	0	0	0
175.0	0	0	0	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	141.52	N.A.	10.80
0-30	299.71	N.A.	22.90
0-40	490.94	N.A.	37.50
0-60	880.02	N.A.	67.20
0-80	1155.13	N.A.	88.30
0-90	1234.02	N.A.	94.30
10-90	1197.3	N.A.	91.50
20-40	349.42	N.A.	26.70
20-50	550.37	N.A.	42.10
40-70	546.57	N.A.	41.80
60-80	275.11	N.A.	21.00
70-80	117.62	N.A.	9.00
80-90	78.89	N.A.	6.00
90-110	66.93	N.A.	5.10
90-120	73.95	N.A.	5.70
90-130	74.79	N.A.	5.70
90-150	74.79	N.A.	5.70
90-180	74.79	N.A.	5.70
110-180	7.86	N.A.	0.60
0-180	1308.81	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	36.72
10-20	104.80
20-30	158.19
30-40	191.24
40-50	200.95
50-60	188.12
60-70	157.49
70-80	117.62
80-90	78.89
90-100	45.71
100-110	21.22
110-120	7.02
120-130	0.84
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	105	100	95	90	102	97	92	88	91	88	84	86	83	81	82	79	77	75
2	95	86	78	72	92	83	76	71	79	73	68	75	70	66	71	67	63	61
3	86	75	66	59	83	73	65	58	69	62	56	65	60	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	52	46	55	50	45	43
5	72	59	49	42	70	57	49	42	55	47	41	52	45	40	49	44	39	37
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	45	39	34	32
7	62	48	39	32	60	47	38	32	45	37	32	43	36	31	41	35	30	28
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	38	32	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	35	29	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	23	32	26	22	20

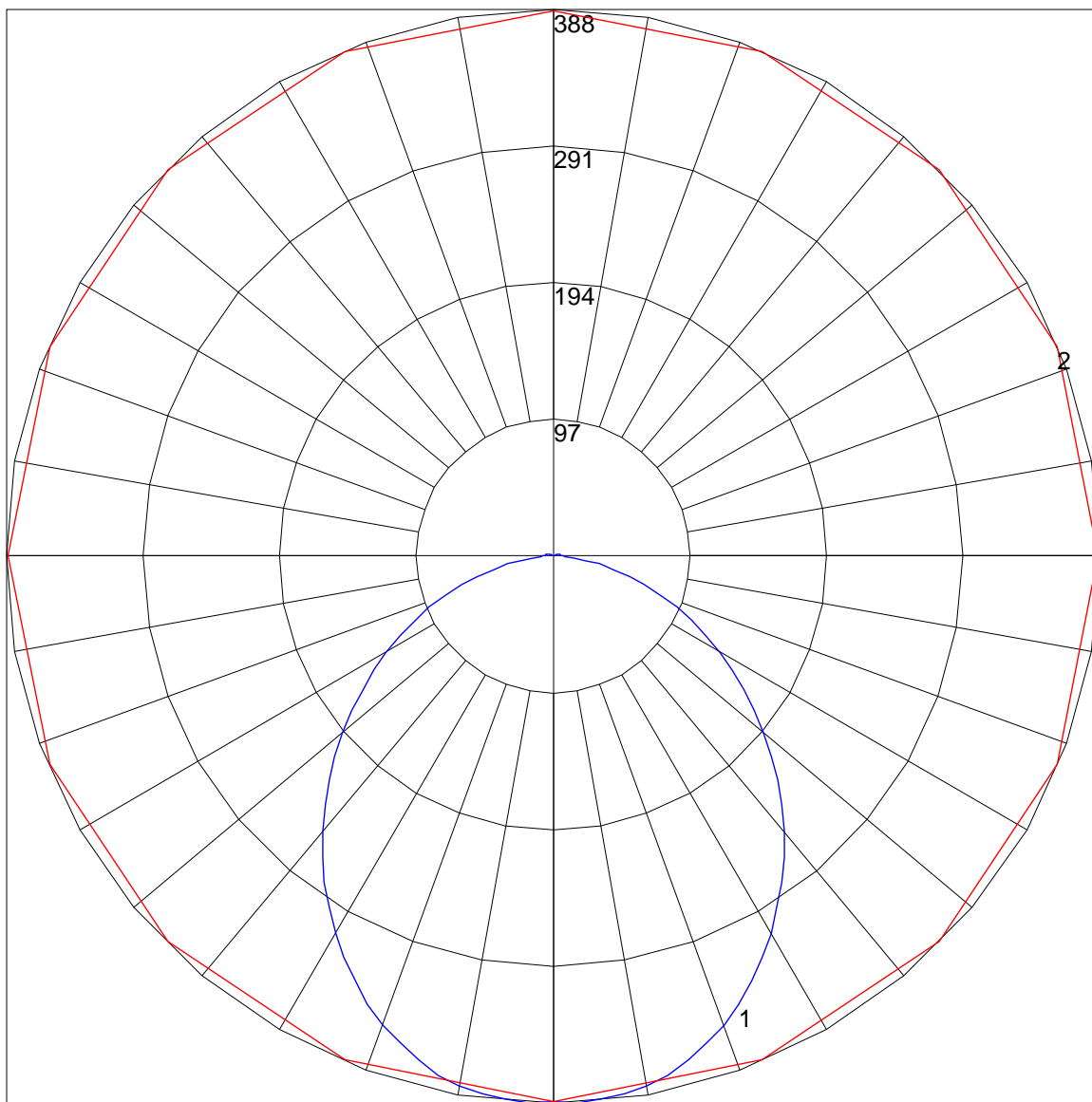
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UGR TABLE - CORRECTED

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	16.6	18.2	17.0	18.6	19.1	18.9	20.5	19.4	20.9	21.4
	3H	18.2	19.6	18.7	20.1	20.6	21.5	22.9	21.9	23.3	23.8
	4H	18.8	20.1	19.3	20.6	21.1	22.7	24.0	23.2	24.5	25.0
	6H	19.2	20.4	19.7	20.9	21.5	24.0	25.2	24.5	25.7	26.2
	8H	19.3	20.5	19.8	21.0	21.6	24.6	25.8	25.1	26.3	26.9
	12H	19.4	20.5	19.9	21.0	21.6	25.3	26.5	25.8	27.0	27.5
4H	2H	17.6	18.9	18.0	19.4	19.9	19.4	20.7	19.9	21.2	21.7
	3H	19.4	20.6	19.9	21.1	21.6	22.2	23.3	22.7	23.8	24.4
	4H	20.1	21.2	20.6	21.7	22.3	23.6	24.6	24.1	25.2	25.7
	6H	20.6	21.6	21.2	22.1	22.7	25.1	26.0	25.6	26.6	27.1
	8H	20.8	21.7	21.4	22.2	22.8	25.8	26.7	26.4	27.3	27.9
	12H	20.9	21.8	21.5	22.3	22.9	26.6	27.5	27.2	28.0	28.6
8H	4H	20.9	21.7	21.4	22.3	22.9	23.8	24.7	24.4	25.2	25.8
	6H	21.6	22.3	22.2	22.9	23.5	25.5	26.3	26.1	26.8	27.5
	8H	21.9	22.6	22.5	23.2	23.8	26.4	27.1	27.0	27.7	28.3
	12H	22.1	22.7	22.7	23.3	24.0	27.5	28.1	28.0	28.6	29.3
12H	4H	21.1	21.9	21.6	22.4	23.0	23.8	24.6	24.4	25.2	25.8
	6H	21.9	22.6	22.5	23.2	23.8	25.6	26.2	26.2	26.8	27.5
	8H	22.3	22.9	22.9	23.5	24.2	26.6	27.2	27.2	27.8	28.4

Maximum UGR = 29.3

POLAR GRAPH



Maximum Candela = 388 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)