



IES INDOOR REPORT

PHOTOMETRIC FILENAME : TALEDECOSA-CEILING.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] H212C
 [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
 [LUMINAIRE] BEGHELLI CANADA 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
 [OTHER] ABSOLUTE PHOTOMETRY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1049
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	15
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	4855	5102	5556
55	4289	4786	5471
65	3656	4480	5521
75	2838	4247	5828
85	1614	4629	6917

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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	310	310	310	310	310
2.5	311	309	309	309	310
5.0	310	309	309	310	310
7.5	309	308	308	309	309
10.0	306	305	306	306	307
12.5	302	301	302	303	304
15.0	297	296	297	299	300
17.5	291	290	292	295	296
20.0	284	284	287	291	292
22.5	276	277	281	286	289
25.0	267	269	275	282	284
27.5	258	260	268	276	279
30.0	248	251	261	270	273
32.5	237	242	254	264	268
35.0	227	233	246	258	261
37.5	216	222	238	250	254
40.0	204	212	230	243	247
42.5	192	202	221	235	240
45.0	181	191	211	227	232
47.5	169	179	202	218	224
50.0	157	168	192	210	216
52.5	144	157	182	201	207
55.0	133	146	171	192	198
57.5	121	134	161	183	190
60.0	110	123	151	173	181
62.5	98	112	140	164	172
65.0	87	100	130	154	163
67.5	76	90	120	145	154
70.0	65	79	110	136	145
72.5	55	70	100	127	136
75.0	45	60	91	118	128
77.5	35	52	83	110	119
80.0	26	44	75	102	112
82.5	18	37	68	94	103
85.0	12	31	61	86	95
87.5	7	25	54	78	86
90.0	5	20	47	69	77
92.5	5	16	41	61	69
95.0	5	12	34	53	60
97.5	4	9	29	46	52
100.0	4	7	24	39	45
102.5	3	5	19	32	37
105.0	3	3	15	27	31
107.5	3	2	12	22	25
110.0	2	1	9	17	21
112.5	2	1	6	14	16
115.0	1	1	3	10	13
117.5	1	1	1	7	10
120.0	1	0	0	5	7
122.5	0	0	0	3	4
125.0	0	0	0	1	2
127.5	0	0	0	0	0
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	113.44	N.A.	10.80
0-30	240.27	N.A.	22.90
0-40	393.57	N.A.	37.50
0-60	705.69	N.A.	67.30
0-80	926.48	N.A.	88.30
0-90	989.73	N.A.	94.30
10-90	960.29	N.A.	91.50
20-40	280.13	N.A.	26.70
20-50	441.32	N.A.	42.10
40-70	438.50	N.A.	41.80
60-80	220.79	N.A.	21.00
70-80	94.41	N.A.	9.00
80-90	63.24	N.A.	6.00
90-110	53.34	N.A.	5.10
90-120	58.92	N.A.	5.60
90-130	59.59	N.A.	5.70
90-150	59.59	N.A.	5.70
90-180	59.59	N.A.	5.70
110-180	6.25	N.A.	0.60
0-180	1049.31	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	29.43
10-20	84.00
20-30	126.83
30-40	153.31
40-50	161.18
50-60	150.93
60-70	126.38
70-80	94.41
80-90	63.24
90-100	36.46
100-110	16.88
110-120	5.58
120-130	0.66
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	87	83	81	82	79	77	75
2	95	86	78	72	92	83	77	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	43	70	57	49	42	55	47	41	52	45	40	50	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

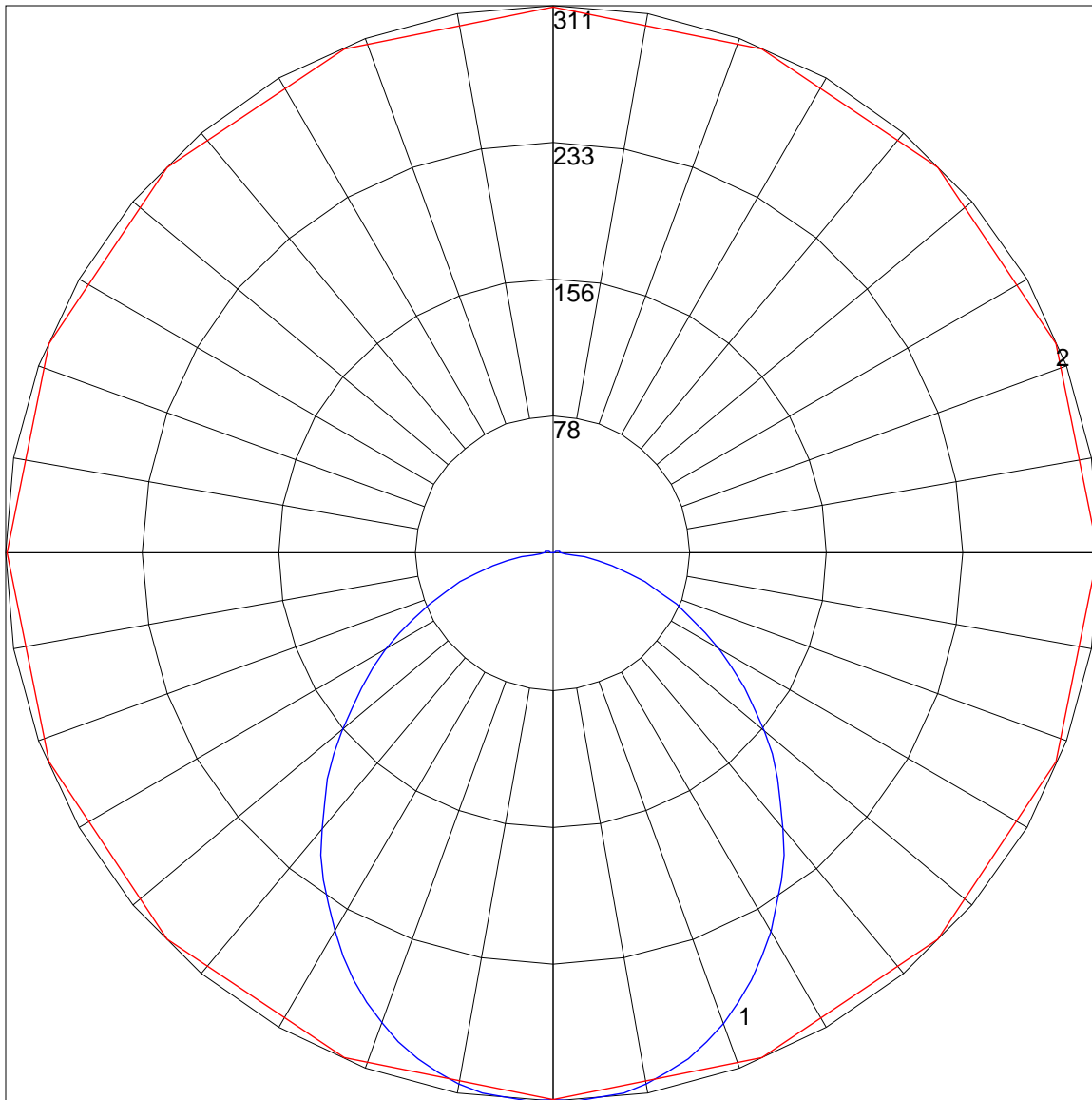
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UGR TABLE - CORRECTED

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	15.9	17.5	16.3	17.9	18.4	18.2	19.8	18.7	20.3	20.7
	3H	17.5	18.9	18.0	19.4	19.9	20.8	22.2	21.2	22.6	23.1
	4H	18.1	19.4	18.6	19.9	20.4	22.0	23.4	22.5	23.8	24.3
	6H	18.5	19.8	19.0	20.2	20.8	23.3	24.5	23.8	25.0	25.5
	8H	18.6	19.8	19.1	20.3	20.9	23.9	25.1	24.4	25.6	26.2
	12H	18.7	19.8	19.2	20.3	20.9	24.6	25.8	25.1	26.3	26.8
4H	2H	16.9	18.2	17.4	18.7	19.2	18.7	20.0	19.2	20.5	21.0
	3H	18.7	19.9	19.2	20.4	20.9	21.5	22.6	22.0	23.1	23.7
	4H	19.4	20.5	19.9	21.0	21.6	22.9	23.9	23.4	24.5	25.0
	6H	20.0	20.9	20.5	21.4	22.0	24.4	25.3	24.9	25.9	26.5
	8H	20.1	21.0	20.7	21.6	22.2	25.1	26.0	25.7	26.6	27.2
	12H	20.3	21.1	20.8	21.6	22.2	25.9	26.8	26.5	27.3	27.9
8H	4H	20.2	21.0	20.7	21.6	22.2	23.1	24.0	23.7	24.6	25.1
	6H	20.9	21.7	21.5	22.2	22.9	24.8	25.6	25.4	26.2	26.8
	8H	21.2	21.9	21.8	22.5	23.1	25.7	26.4	26.3	27.0	27.6
	12H	21.4	22.0	22.0	22.6	23.3	26.8	27.4	27.3	28.0	28.6
12H	4H	20.4	21.2	20.9	21.7	22.3	23.1	23.9	23.7	24.5	25.1
	6H	21.2	21.9	21.8	22.5	23.1	24.9	25.6	25.5	26.1	26.8
	8H	21.6	22.2	22.2	22.8	23.5	25.9	26.5	26.5	27.1	27.7

Maximum UGR = 28.6

POLAR GRAPH



Maximum Candela = 311 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)