



IES INDOOR REPORT

PHOTOMETRIC FILENAME : TEMPESTALED-ACONLY-CEILING(1937LM).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Lumentra, Inc. 160 Frobisher Drive, Unit 5 Waterloo, Ontario

[ISSUEDATE] 10-01-2021

[MANUFAC] BELUCE CANADA INC. MARKHAM, ONTARIO

[LUMCAT] TA-LED-ACOnly-120-347V-S (AC ONLY)

[LUMINAIRE] BELUCE LED LUMINAIRE WITH SPECULAR INTERIOR AND TRANSLUCENT PRISMATIC LENS

[LAMP] TWO LED BOARDS (40 LEDS EACH). LUMEN OUTPUT = 1937 LMS.

[_AGI32] File was generated from AGI32

CHARACTERISTICS

Lumens Per Lamp	292 (1 lamp)
Total Lamp Lumens	292
Luminaire Lumens	1937
Total Luminaire Efficiency	663 %
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	14.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.21 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	9754	9837	10741
55	8596	9383	10699
65	7213	8771	10761
75	5489	8398	11396
85	2827	8687	13463

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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	591.787	591.787	591.787	591.787	591.787
2.5	590.813	590.813	591.787	592.760	592.760
5.0	589.840	588.867	590.813	591.787	590.813
7.5	586.920	586.920	586.920	585.947	584.000
10.0	582.053	582.053	579.133	576.213	575.240
12.5	575.240	574.267	569.400	565.507	564.533
15.0	565.507	563.560	556.747	554.800	553.827
17.5	554.800	551.880	545.067	544.093	542.147
20.0	542.147	538.253	532.413	531.440	531.440
22.5	528.520	523.653	519.760	520.733	520.733
25.0	512.947	507.107	505.160	509.053	510.027
27.5	494.453	489.587	489.587	495.427	498.347
30.0	475.960	471.093	474.013	483.747	489.587
32.5	456.493	453.573	459.413	474.987	480.827
35.0	436.053	434.107	443.840	464.280	471.093
37.5	413.667	413.667	428.267	453.573	461.360
40.0	391.280	394.200	415.613	442.867	450.653
42.5	369.867	374.733	401.987	431.187	439.947
45.0	347.480	354.293	388.360	418.533	427.293
47.5	324.120	333.853	371.813	403.933	413.667
50.0	301.733	313.413	356.240	389.333	400.040
52.5	278.373	292.973	337.747	373.760	384.467
55.0	255.013	272.533	320.227	357.213	368.893
57.5	232.627	253.067	302.707	340.667	352.347
60.0	210.240	233.600	284.213	323.147	336.773
62.5	186.880	212.187	263.773	305.627	320.227
65.0	164.493	191.747	243.333	288.107	302.707
67.5	143.080	171.307	224.840	271.560	287.133
70.0	122.640	151.840	207.320	255.013	270.587
72.5	103.173	132.373	188.827	237.493	254.040
75.0	83.707	113.880	172.280	221.920	238.467
77.5	65.213	97.333	155.733	206.347	222.893
80.0	48.667	81.760	141.133	189.800	206.347
82.5	33.093	68.133	125.560	174.227	192.720
85.0	20.440	55.480	109.987	157.680	176.173
87.5	11.680	42.827	94.413	139.187	157.680
90.0	7.787	30.173	77.867	120.693	139.187
92.5	7.787	21.413	64.240	103.173	120.693
95.0	7.787	16.547	52.560	86.627	103.173
97.5	6.813	13.627	42.827	73.973	88.573
100.0	6.813	10.707	34.067	62.293	75.920
102.5	5.840	7.787	28.227	51.587	62.293
105.0	5.840	5.840	23.360	42.827	51.587
107.5	4.867	3.893	18.493	36.013	42.827
110.0	3.893	2.920	14.600	29.200	36.013
112.5	2.920	1.947	9.733	24.333	29.200
115.0	2.920	1.947	5.840	18.493	24.333
117.5	1.947	0.973	1.947	13.627	18.493
120.0	0.973	0.973	0.973	8.760	12.653
122.5	0.973	0.000	0.000	4.867	7.787
125.0	0.000	0.000	0.000	1.947	3.893
127.5	0.000	0.000	0.000	0.000	0.973
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	213.58	73.10	11.00
0-30	447.64	153.30	23.10
0-40	728.73	249.60	37.60
0-60	1309.71	448.50	67.60
0-80	1724.59	590.60	89.00
0-90	1839.39	629.90	94.90
10-90	1783.4	610.80	92.10
20-40	515.15	176.40	26.60
20-50	813.66	278.70	42.00
40-70	818.57	280.30	42.30
60-80	414.88	142.10	21.40
70-80	177.30	60.70	9.20
80-90	114.80	39.30	5.90
90-110	86.55	29.60	4.50
90-120	96.61	33.10	5.00
90-130	97.90	33.50	5.10
90-150	97.90	33.50	5.10
90-180	97.90	33.50	5.10
110-180	11.35	3.90	0.60
0-180	1937.29	663.50	100.00

Total Luminaire Efficiency = 663.50%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	56.00
10-20	157.58
20-30	234.06
30-40	281.09
40-50	298.51
50-60	282.47
60-70	237.58
70-80	177.30
80-90	114.80
90-100	59.22
100-110	27.33
110-120	10.06
120-130	1.29
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

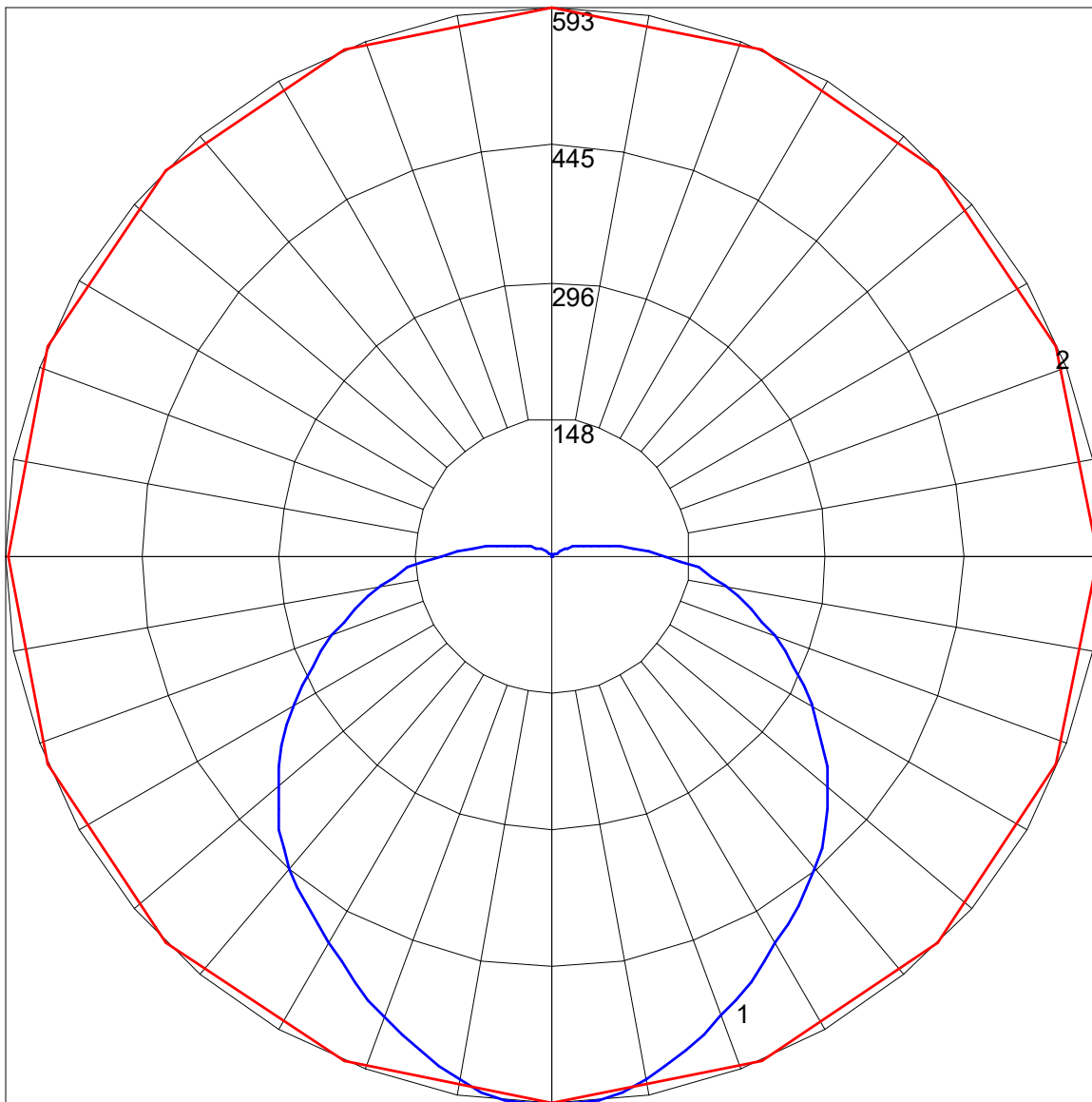
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	782	782	782	782	760	760	760	760	719	719	719	681	681	681	646	646	646	630
1	700	662	629	598	678	644	613	585	609	584	561	577	556	537	547	531	515	498
2	632	571	520	478	610	555	508	469	525	486	453	498	466	437	473	446	423	405
3	573	498	439	392	553	484	430	386	459	413	375	436	397	364	414	382	354	337
4	523	439	377	330	505	428	370	325	406	356	317	386	344	309	368	331	301	285
5	481	391	328	282	464	381	323	279	363	312	273	346	301	266	330	292	260	245
6	443	351	289	245	428	343	285	243	327	276	238	313	267	233	299	259	228	213
7	411	318	258	216	397	311	254	214	297	247	210	285	240	206	273	233	202	188
8	382	290	232	192	370	284	229	190	272	222	187	261	216	184	251	211	181	167
9	357	266	210	172	346	260	207	171	250	202	168	241	197	166	232	192	163	150
10	335	245	192	156	324	240	189	155	231	185	152	223	180	150	215	176	148	136

POLAR GRAPH



Maximum Candela = 592.76 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)