



IES INDOOR REPORT

PHOTOMETRIC FILENAME : TEMPESTALED-ACEM-CEILING(1384LM).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-ACEM-120-347V-S

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

[LAMP] TWO LED BOARDS (40 LEDS EACH). LUMEN OUTPUT = 1384 LMS.

[_AGI32] File was generated from AGI32

CHARACTERISTICS

Lumens Per Lamp	208.6 (1 lamp)
Total Lamp Lumens	208.6
Luminaire Lumens	1384
Total Luminaire Efficiency	663 %
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	10.5
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	6968	7027	7673
55	6141	6703	7643
65	5153	6266	7687
75	3921	6000	8141
85	2019	6206	9618

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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	422.763	422.763	422.763	422.763	422.763
2.5	422.067	422.067	422.763	423.458	423.458
5.0	421.372	420.677	422.067	422.763	422.067
7.5	419.286	419.286	419.286	418.591	417.200
10.0	415.809	415.809	413.723	411.637	410.942
12.5	410.942	410.247	406.770	403.989	403.293
15.0	403.989	402.598	397.731	396.340	395.645
17.5	396.340	394.254	389.387	388.691	387.301
20.0	387.301	384.519	380.347	379.652	379.652
22.5	377.566	374.089	371.308	372.003	372.003
25.0	366.441	362.269	360.878	363.659	364.355
27.5	353.229	349.753	349.753	353.925	356.011
30.0	340.018	336.541	338.627	345.581	349.753
32.5	326.111	324.025	328.197	339.323	343.495
35.0	311.509	310.119	317.072	331.674	336.541
37.5	295.517	295.517	305.947	324.025	329.588
40.0	279.524	281.610	296.907	316.377	321.939
42.5	264.227	267.703	287.173	308.033	314.291
45.0	248.234	253.101	277.438	298.993	305.251
47.5	231.546	238.499	265.617	288.563	295.517
50.0	215.553	223.897	254.492	278.133	285.782
52.5	198.865	209.295	241.281	267.008	274.657
55.0	182.177	194.693	228.765	255.187	263.531
57.5	166.185	180.787	216.249	243.367	251.711
60.0	150.192	166.880	203.037	230.851	240.585
62.5	133.504	151.583	188.435	218.335	228.765
65.0	117.511	136.981	173.833	205.819	216.249
67.5	102.214	122.379	160.622	193.998	205.123
70.0	87.612	108.472	148.106	182.177	193.303
72.5	73.705	94.565	134.895	169.661	181.482
75.0	59.799	81.354	123.074	158.536	170.357
77.5	46.587	69.533	111.253	147.411	159.231
80.0	34.767	58.408	100.823	135.590	147.411
82.5	23.641	48.673	89.698	124.465	137.676
85.0	14.602	39.634	78.573	112.644	125.855
87.5	8.344	30.595	67.447	99.433	112.644
90.0	5.563	21.555	55.627	86.221	99.433
92.5	5.563	15.297	45.892	73.705	86.221
95.0	5.563	11.821	37.548	61.885	73.705
97.5	4.867	9.735	30.595	52.845	63.275
100.0	4.867	7.649	24.337	44.501	54.236
102.5	4.172	5.563	20.165	36.853	44.501
105.0	4.172	4.172	16.688	30.595	36.853
107.5	3.477	2.781	13.211	25.727	30.595
110.0	2.781	2.086	10.430	20.860	25.727
112.5	2.086	1.391	6.953	17.383	20.860
115.0	2.086	1.391	4.172	13.211	17.383
117.5	1.391	0.695	1.391	9.735	13.211
120.0	0.695	0.695	0.695	6.258	9.039
122.5	0.695	0.000	0.000	3.477	5.563
125.0	0.000	0.000	0.000	1.391	2.781
127.5	0.000	0.000	0.000	0.000	0.695
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	152.58	73.10	11.00
0-30	319.79	153.30	23.10
0-40	520.59	249.60	37.60
0-60	935.64	448.50	67.60
0-80	1232.02	590.60	89.00
0-90	1314.03	629.90	94.90
10-90	1274.03	610.80	92.10
20-40	368.02	176.40	26.60
20-50	581.26	278.60	42.00
40-70	584.77	280.30	42.30
60-80	296.39	142.10	21.40
70-80	126.66	60.70	9.20
80-90	82.01	39.30	5.90
90-110	61.83	29.60	4.50
90-120	69.02	33.10	5.00
90-130	69.94	33.50	5.10
90-150	69.94	33.50	5.10
90-180	69.94	33.50	5.10
110-180	8.11	3.90	0.60
0-180	1383.97	663.50	100.00

Total Luminaire Efficiency = 663.50%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.00
10-20	112.57
20-30	167.21
30-40	200.81
40-50	213.25
50-60	201.80
60-70	169.73
70-80	126.66
80-90	82.01
90-100	42.31
100-110	19.53
110-120	7.18
120-130	0.92
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

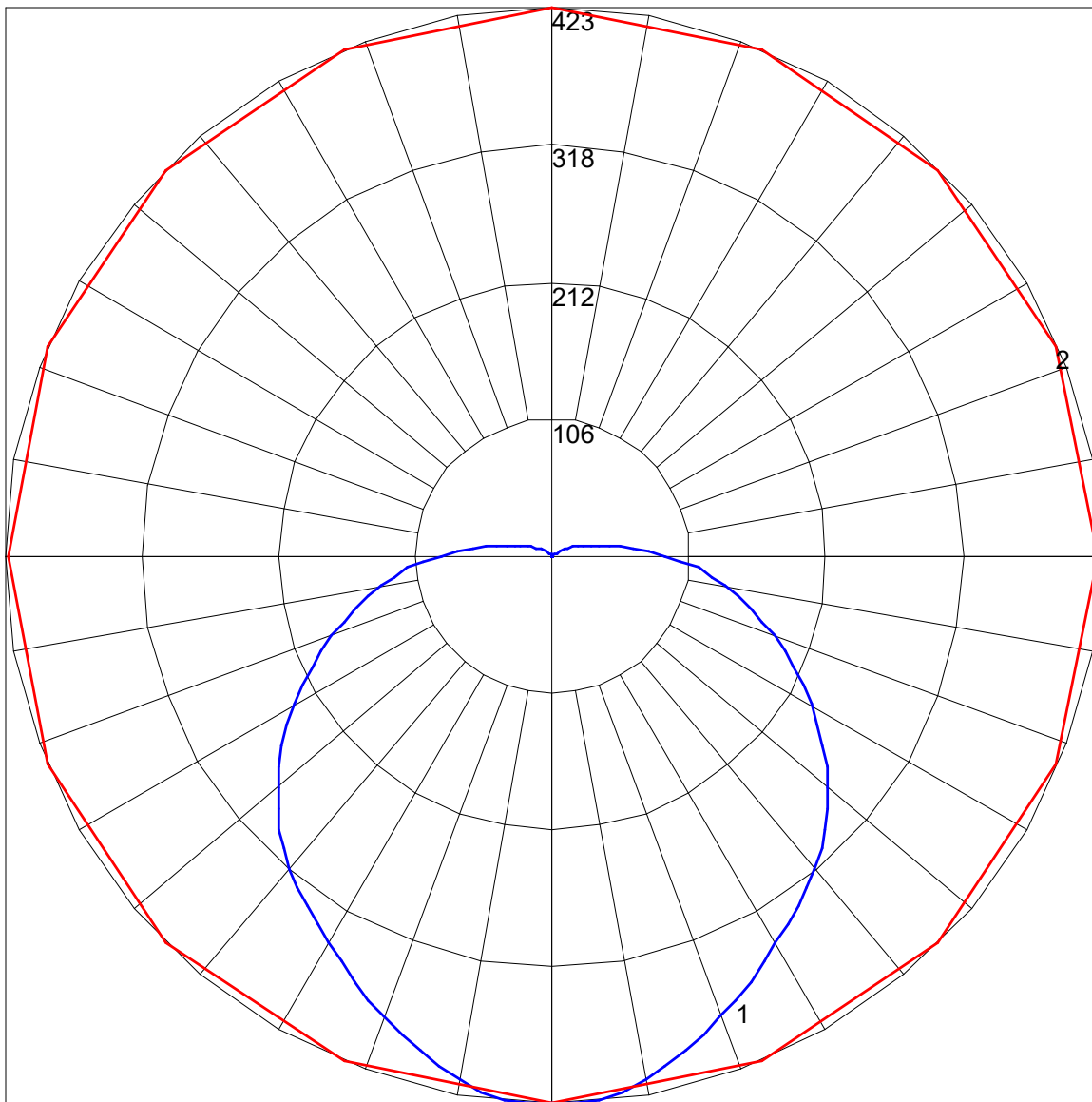
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 423.458 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.)