



IES INDOOR REPORT

PHOTOMETRIC FILENAME : TEMPESTALED-EM-WALL(1899LM)-AGI32.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-EM-120-347V-S (ON BATTERY)

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

[LAMP] TWO LED BOARDS (40 LEDS EACH). LUMEN OUTPUT = 1899 LMS.

[_AGI32] File was generated from AGI32

CHARACTERISTICS

Lumens Per Lamp	286.2 (1 lamp)
Total Lamp Lumens	286.2
Luminaire Lumens	1899
Total Luminaire Efficiency	663 %
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	15.1
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	9560	9642	10528
55	8426	9196	10486
65	7070	8597	10547
75	5380	8232	11169
85	2770	8515	13195

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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	580.032	580.032	580.032	580.032	580.032
2.5	579.078	579.078	580.032	580.986	580.986
5.0	578.124	577.170	579.078	580.032	579.078
7.5	575.262	575.262	575.262	574.308	572.400
10.0	570.492	570.492	567.630	564.768	563.814
12.5	563.814	562.860	558.090	554.274	553.320
15.0	554.274	552.366	545.688	543.780	542.826
17.5	543.780	540.918	534.240	533.286	531.378
20.0	531.378	527.562	521.838	520.884	520.884
22.5	518.022	513.252	509.436	510.390	510.390
25.0	502.758	497.034	495.126	498.942	499.896
27.5	484.632	479.862	479.862	485.586	488.448
30.0	466.506	461.736	464.598	474.138	479.862
32.5	447.426	444.564	450.288	465.552	471.276
35.0	427.392	425.484	435.024	455.058	461.736
37.5	405.450	405.450	419.760	444.564	452.196
40.0	383.508	386.370	407.358	434.070	441.702
42.5	362.520	367.290	394.002	422.622	431.208
45.0	340.578	347.256	380.646	410.220	418.806
47.5	317.682	327.222	364.428	395.910	405.450
50.0	295.740	307.188	349.164	381.600	392.094
52.5	272.844	287.154	331.038	366.336	376.830
55.0	249.948	267.120	313.866	350.118	361.566
57.5	228.006	248.040	296.694	333.900	345.348
60.0	206.064	228.960	278.568	316.728	330.084
62.5	183.168	207.972	258.534	299.556	313.866
65.0	161.226	187.938	238.500	282.384	296.694
67.5	140.238	167.904	220.374	266.166	281.430
70.0	120.204	148.824	203.202	249.948	265.212
72.5	101.124	129.744	185.076	232.776	248.994
75.0	82.044	111.618	168.858	217.512	233.730
77.5	63.918	95.400	152.640	202.248	218.466
80.0	47.700	80.136	138.330	186.030	202.248
82.5	32.436	66.780	123.066	170.766	188.892
85.0	20.034	54.378	107.802	154.548	172.674
87.5	11.448	41.976	92.538	136.422	154.548
90.0	7.632	29.574	76.320	118.296	136.422
92.5	7.632	20.988	62.964	101.124	118.296
95.0	7.632	16.218	51.516	84.906	101.124
97.5	6.678	13.356	41.976	72.504	86.814
100.0	6.678	10.494	33.390	61.056	74.412
102.5	5.724	7.632	27.666	50.562	61.056
105.0	5.724	5.724	22.896	41.976	50.562
107.5	4.770	3.816	18.126	35.298	41.976
110.0	3.816	2.862	14.310	28.620	35.298
112.5	2.862	1.908	9.540	23.850	28.620
115.0	2.862	1.908	5.724	18.126	23.850
117.5	1.908	0.954	1.908	13.356	18.126
120.0	0.954	0.954	0.954	8.586	12.402
122.5	0.954	0.000	0.000	4.770	7.632
125.0	0.000	0.000	0.000	1.908	3.816
127.5	0.000	0.000	0.000	0.000	0.954
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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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	209.34	73.10	11.00
0-30	438.75	153.30	23.10
0-40	714.25	249.60	37.60
0-60	1283.7	448.50	67.60
0-80	1690.34	590.60	89.00
0-90	1802.85	629.90	94.90
10-90	1747.97	610.80	92.10
20-40	504.92	176.40	26.60
20-50	797.50	278.70	42.00
40-70	802.31	280.30	42.30
60-80	406.64	142.10	21.40
70-80	173.78	60.70	9.20
80-90	112.52	39.30	5.90
90-110	84.83	29.60	4.50
90-120	94.69	33.10	5.00
90-130	95.96	33.50	5.10
90-150	95.96	33.50	5.10
90-180	95.96	33.50	5.10
110-180	11.12	3.90	0.60
0-180	1898.81	663.50	100.00

Total Luminaire Efficiency = 663.50%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	54.88
10-20	154.45
20-30	229.41
30-40	275.51
40-50	292.58
50-60	276.86
60-70	232.87
70-80	173.78
80-90	112.52
90-100	58.04
100-110	26.79
110-120	9.86
120-130	1.27
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

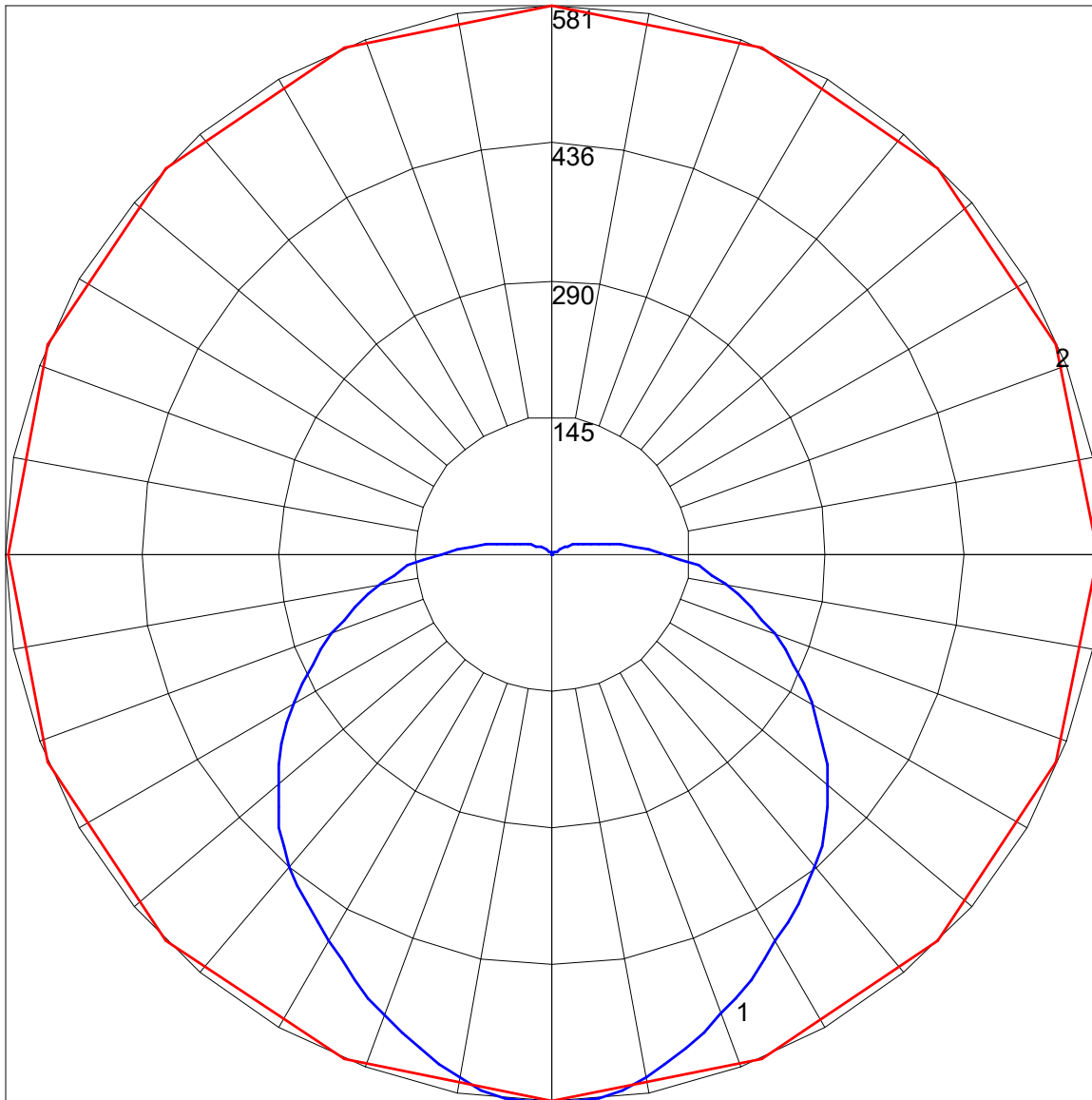
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 580.986 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.)