



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : CASHTLOWT30WBD120-277V.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]  
 [TESTLAB]  
 [TESTDATE]  
 [ISSUEDATE] 2017-4-6  
 [MANUFAC] BEGHELLI  
 [LUMCAT]  
 [LUMINAIRE] CASHTLOWT30WBD120-277V  
 [LAMPCAT]  
 [LAMP]

### CHARACTERISTICS

Lumens Per Lamp	3131.948 (1 lamp)
Total Lamp Lumens	3131.948
Luminaire Lumens	3025
Total Luminaire Efficiency	97 %
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	28.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : CASHTLOWT30WBD120-277V.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	1422.511	1422.511	1422.511	1422.511	1422.511	1422.511	1422.511	1422.511	1422.511	1422.511
5	1398.630	1408.067	1406.334	1420.393	1420.393	1424.245	1433.105	1425.208	1430.215	1431.178
10	1372.051	1379.178	1376.867	1390.926	1401.326	1408.644	1422.127	1414.807	1423.282	1418.468
15	1333.532	1336.999	1334.495	1341.044	1367.237	1374.555	1389.963	1385.918	1386.881	1385.918
20	1283.265	1288.465	1294.243	1299.251	1316.584	1318.895	1335.844	1340.081	1333.918	1337.962
25	1225.102	1234.346	1237.234	1245.324	1259.383	1260.539	1281.147	1282.494	1280.954	1276.525
30	1169.056	1181.960	1179.264	1194.864	1200.256	1203.338	1221.057	1212.582	1209.501	1208.731
35	1104.344	1112.048	1115.707	1129.381	1137.855	1139.588	1151.530	1145.367	1144.596	1136.507
40	1015.942	1031.542	1042.905	1040.402	1052.343	1066.402	1074.684	1073.143	1070.255	1063.513
45	833.361	846.265	873.036	897.496	901.925	940.060	990.712	981.082	978.001	980.505
50	535.224	539.268	563.535	603.017	613.802	717.804	783.094	808.902	804.664	798.309
55	254.419	269.056	288.701	285.041	311.235	376.139	458.378	452.022	420.821	452.022
60	171.988	181.425	191.248	187.973	190.862	206.462	224.759	223.026	210.892	219.174
65	128.847	129.425	138.476	147.528	151.765	157.351	155.810	148.298	151.188	148.298
70	92.831	91.869	84.742	99.572	98.032	109.779	92.638	104.387	105.928	104.387
75	46.801	45.452	43.334	52.964	53.734	54.890	47.378	56.238	52.386	51.809
80	15.985	15.022	15.215	16.178	18.489	17.718	14.637	17.334	17.912	16.948
85	3.659	3.467	3.274	3.274	3.082	3.274	3.274	3.082	2.889	3.082
90	0.385	0.385	0.578	0.385	0.578	0.385	0.385	0.385	0.385	0.192
95	0.192	0.385	0.385	0.385	0.385	0.385	0.192	0.192	0.192	0.192
100	0.385	0.385	0.385	0.385	0.385	0.385	0.192	0.192	0.192	0.192
105	0.385	0.385	0.385	0.385	0.385	0.385	0.192	0.192	0.192	0.385
110	0.770	0.578	0.578	0.578	0.578	0.385	0.578	0.385	0.385	0.385
115	0.770	0.770	0.578	0.770	0.578	0.578	0.578	0.578	0.578	0.578
120	0.963	0.963	0.770	0.770	0.770	0.578	0.578	0.578	0.770	0.578
125	1.155	1.155	1.155	0.963	0.963	0.963	0.770	0.770	0.963	0.770
130	1.541	1.349	1.349	1.349	1.155	1.155	0.963	0.963	0.963	0.963
135	1.541	1.733	1.541	1.349	1.541	1.155	1.155	1.349	1.155	1.349
140	1.733	1.733	1.733	1.733	1.541	1.541	1.349	1.541	1.541	1.541
145	2.118	1.926	1.926	1.733	1.733	1.733	1.541	1.541	1.733	1.541
150	2.118	2.118	2.118	1.926	1.926	1.733	1.733	1.733	1.733	1.733
155	2.311	2.311	2.118	2.118	2.118	1.926	1.926	1.733	1.926	2.118
160	2.118	2.311	2.311	2.118	2.311	1.926	2.118	2.118	1.926	1.926
165	2.311	2.311	2.118	2.311	2.118	2.118	2.118	2.118	2.118	2.118
170	2.311	2.311	2.118	2.118	2.118	2.118	2.118	2.118	1.926	2.118
175	2.118	2.118	2.118	2.118	2.118	2.118	2.118	2.118	2.311	2.118
180	2.311	2.311	2.311	2.311	2.311	2.311	2.311	2.311	2.311	2.311

Vert. Horizontal Angles  
Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	1422.511	1422.511	1422.511	1422.511	1422.511	1422.511	1422.511
5	1424.630	1416.541	1417.119	1408.067	1407.875	1408.452	1398.630
10	1405.178	1389.193	1391.311	1373.785	1376.289	1370.126	1372.051
15	1370.511	1348.170	1349.903	1328.910	1331.991	1328.332	1333.532
20	1319.281	1306.761	1299.828	1283.265	1286.732	1283.265	1283.265
25	1265.162	1254.761	1239.932	1231.457	1229.338	1224.138	1225.102
30	1202.182	1198.908	1183.501	1168.478	1169.634	1164.434	1169.056
35	1139.781	1134.196	1118.403	1100.877	1107.618	1099.721	1104.344
40	1057.543	1052.150	1035.587	1020.950	1027.113	1020.179	1015.942
45	964.711	921.185	870.340	853.969	843.377	822.191	833.361
50	741.878	657.521	572.009	530.408	533.298	523.090	535.224
55	415.622	334.924	301.027	277.531	277.531	255.960	254.419
60	218.211	196.062	188.358	182.389	187.589	176.803	171.988

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CASHTLOWT30WBD120-277V.IES**

**CANDELA TABULATION - (Cont.)**

<b>65</b>	152.921	153.306	148.298	143.676	137.129	127.113	128.847
<b>70</b>	93.602	104.001	99.572	97.838	83.587	91.290	92.831
<b>75</b>	47.378	56.815	57.972	51.809	42.948	46.030	46.801
<b>80</b>	15.022	16.563	19.452	16.371	14.059	15.215	15.985
<b>85</b>	3.274	3.082	3.467	3.274	3.082	3.467	3.659
<b>90</b>	0.385	0.192	0.385	0.578	0.385	0.385	0.385
<b>95</b>	0.192	0.192	0.192	0.192	0.385	0.192	0.192
<b>100</b>	0.192	0.192	0.385	0.385	0.385	0.192	0.385
<b>105</b>	0.192	0.192	0.385	0.385	0.385	0.385	0.385
<b>110</b>	0.192	0.385	0.385	0.578	0.578	0.578	0.770
<b>115</b>	0.578	0.578	0.578	0.770	0.578	0.770	0.770
<b>120</b>	0.578	0.770	0.770	0.963	0.963	0.963	0.963
<b>125</b>	0.963	0.963	0.963	1.155	1.155	1.155	1.155
<b>130</b>	0.963	0.963	1.155	1.155	1.349	1.349	1.541
<b>135</b>	1.349	1.349	1.349	1.541	1.541	1.541	1.541
<b>140</b>	1.541	1.541	1.541	1.541	1.541	1.733	1.733
<b>145</b>	1.733	1.733	1.926	1.926	1.926	1.926	2.118
<b>150</b>	1.733	1.733	1.733	1.926	1.926	2.118	2.118
<b>155</b>	1.926	1.926	1.926	2.118	2.118	2.311	2.311
<b>160</b>	2.118	1.926	1.926	2.118	2.118	2.118	2.118
<b>165</b>	1.926	2.118	2.118	2.118	2.118	2.311	2.311
<b>170</b>	2.118	2.118	2.118	2.118	2.118	2.118	2.311
<b>175</b>	2.311	2.118	2.118	2.118	2.118	2.118	2.118
<b>180</b>	2.311	2.311	2.311	2.311	2.311	2.311	2.311

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CASHTLOWT30WBD120-277V.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	517.25	16.50	17.10
0-30	1094.94	35.00	36.20
0-40	1798.74	57.40	59.50
0-60	2811.99	89.80	92.90
0-80	3012.98	96.20	99.60
0-90	3019.31	96.40	99.80
10-90	2884.76	92.10	95.30
20-40	1281.5	40.90	42.40
20-50	1956.55	62.50	64.70
40-70	1157.75	37.00	38.30
60-80	200.99	6.40	6.60
70-80	56.48	1.80	1.90
80-90	6.33	0.20	0.20
90-110	0.72	0.00	0.00
90-120	1.34	0.00	0.00
90-130	2.22	0.10	0.10
90-150	4.41	0.10	0.10
90-180	6.15	0.20	0.20
110-180	5.43	0.20	0.20
0-180	3025.46	96.60	100.00

Total Luminaire Efficiency = 96.60%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	134.55
10-20	382.70
20-30	577.69
30-40	703.80
40-50	675.06
50-60	338.18
60-70	144.51
70-80	56.48
80-90	6.33
90-100	0.33
100-110	0.38
110-120	0.63
120-130	0.88
130-140	1.08
140-150	1.10
150-160	0.93
160-170	0.60
170-180	0.21

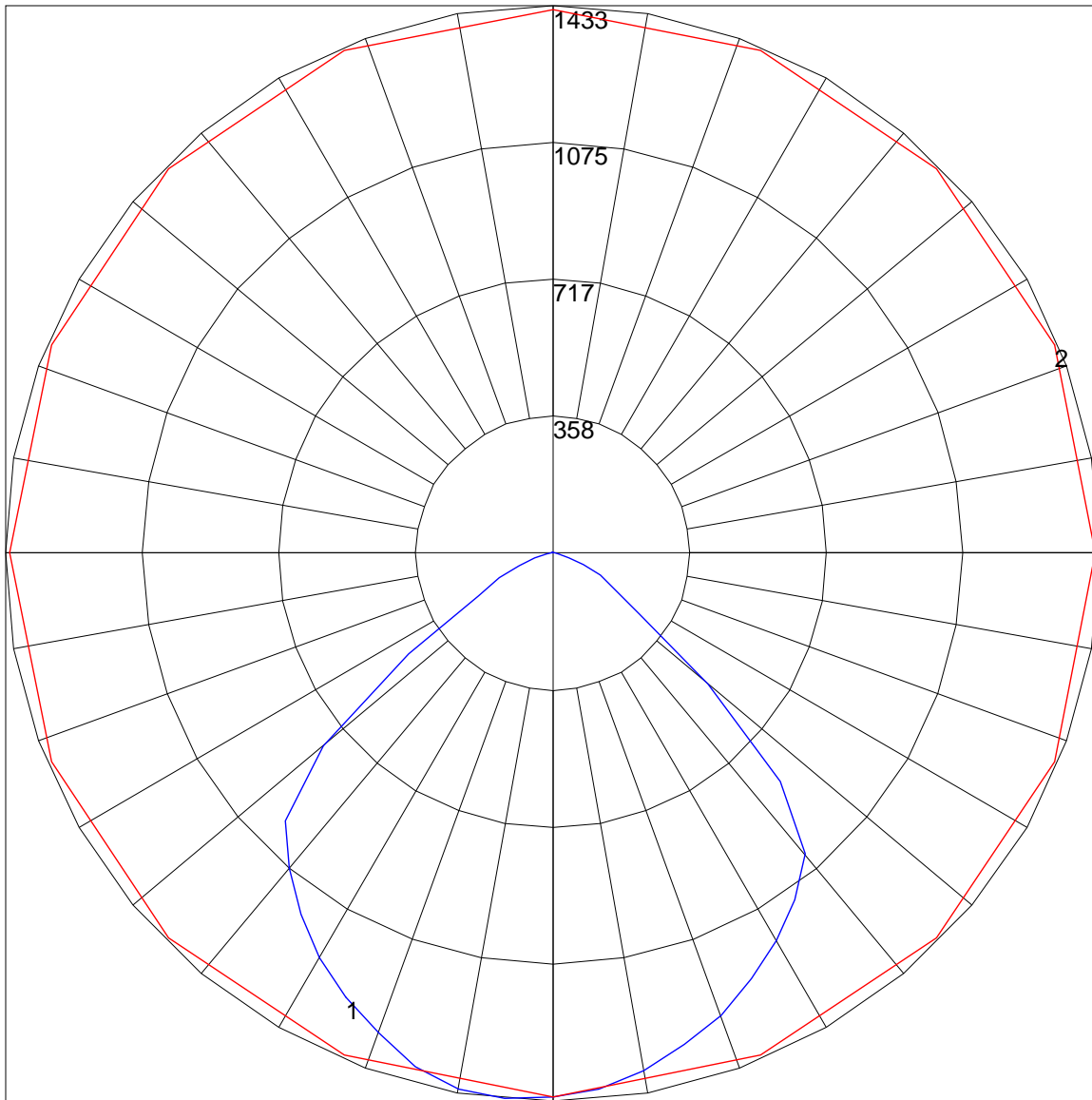
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CASHTLOWT30WBD120-277V.IES**

**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	115	115	115	115	112	112	112	112	107	107	107	103	103	103	98	98	98	96
1	107	104	101	98	105	102	99	96	98	95	93	94	92	90	90	89	88	86
2	100	93	88	83	97	91	86	82	88	84	80	85	82	79	82	79	77	75
3	92	84	77	72	90	82	76	71	79	74	70	77	72	69	74	71	68	66
4	85	75	68	63	83	74	67	62	72	66	61	70	65	60	68	63	60	58
5	79	68	61	55	77	67	60	55	65	59	54	63	58	54	62	57	53	51
6	73	62	54	49	72	61	54	49	59	53	48	58	52	48	56	51	47	46
7	68	57	49	44	67	56	49	43	54	48	43	53	47	43	52	47	43	41
8	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	42	38	37
9	60	48	41	36	58	47	40	36	46	40	35	45	39	35	44	39	35	33
10	56	44	37	32	55	44	37	32	43	37	32	42	36	32	41	36	32	30

POLAR GRAPH



Maximum Candela = 1433.105 Located At Horizontal Angle = 135, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (135 - 315) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)