



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : CASHTMOWT30WBD120-277V.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TESTLAB]  
 [TESTDATE] 2017-3-23  
 [ISSUEDATE] 2017-3-23  
 [MANUFAC] BEGHELLI  
 [LUMCAT]  
 [LUMINAIRE] CASHTMOWT30WBD120-277V  
 [LAMPCAT]  
 [LAMP]

### CHARACTERISTICS

Lumens Per Lamp	11701.57 (1 lamp)
Total Lamp Lumens	11701.57
Luminaire Lumens	11304
Total Luminaire Efficiency	97 %
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	100.25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.30
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 : CASHTMOWT30WBD120-277V.IES**

**CANDELA TABULATION**

	<u>0</u>	<u>30</u>	<u>60</u>	<u>90</u>	<u>120</u>	<u>150</u>	<u>180</u>	<u>210</u>	<u>240</u>	<u>270</u>
0	5654.223	5654.223	5654.223	5654.223	5654.223	5654.223	5654.223	5654.223	5654.223	5654.223
5	5604.149	5607.038	5604.726	5661.927	5604.726	5607.038	5604.149	5607.038	5604.726	5661.927
10	5474.725	5468.561	5463.746	5517.481	5463.746	5468.561	5474.725	5468.561	5463.746	5517.481
15	5252.662	5246.113	5245.536	5315.063	5245.536	5246.113	5252.662	5246.113	5245.536	5315.063
20	4999.783	4991.117	4989.576	5056.599	4989.576	4991.117	4999.783	4991.117	4989.576	5056.599
25	4727.646	4718.593	4704.534	4772.328	4704.534	4718.593	4727.646	4718.593	4704.534	4772.328
30	4456.471	4440.486	4437.982	4495.761	4437.982	4440.486	4456.471	4440.486	4437.982	4495.761
35	4163.919	4162.185	4163.919	4187.223	4163.919	4162.185	4163.919	4162.185	4163.919	4187.223
40	3820.328	3786.816	3767.749	3710.163	3767.749	3786.816	3820.328	3786.816	3767.749	3710.163
45	3182.836	3137.961	3090.197	2963.277	3090.197	3137.961	3182.836	3137.961	3090.197	2963.277
50	2195.976	2160.153	2145.708	2194.435	2145.708	2160.153	2195.976	2160.153	2145.708	2194.435
55	1283.650	1292.317	1304.451	1430.023	1304.451	1292.317	1283.650	1292.317	1304.451	1430.023
60	797.538	815.450	838.369	848.961	838.369	815.450	797.538	815.450	838.369	848.961
65	603.402	589.150	626.322	628.440	626.322	589.150	603.402	589.150	626.322	628.440
70	422.748	397.710	419.858	427.755	419.858	397.710	422.748	397.710	419.858	427.755
75	234.774	221.485	236.315	253.456	236.315	221.485	234.774	221.485	236.315	253.456
80	96.491	80.890	98.802	109.395	98.802	80.890	96.491	80.890	98.802	109.395
85	20.222	19.645	22.534	27.348	22.534	19.645	20.222	19.645	22.534	27.348
90	1.349	1.349	1.733	2.118	1.733	1.349	1.349	1.349	1.733	2.118
95	0.963	0.770	0.770	0.963	0.770	0.770	0.963	0.770	0.770	0.963
100	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770
105	1.155	0.963	0.963	0.963	0.963	0.963	1.155	0.963	0.963	0.963
110	1.541	1.349	1.349	1.541	1.349	1.349	1.541	1.349	1.349	1.541
115	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.926	1.926
120	2.696	2.504	2.504	2.696	2.504	2.504	2.696	2.504	2.504	2.696
125	3.274	3.082	3.082	3.274	3.082	3.082	3.274	3.082	3.082	3.274
130	3.851	3.851	3.851	4.045	3.851	3.851	3.851	3.851	3.851	4.045
135	4.815	4.622	4.622	4.815	4.622	4.622	4.815	4.622	4.622	4.815
140	5.392	5.200	5.200	5.392	5.200	5.200	5.392	5.200	5.200	5.392
145	6.163	5.971	5.971	6.163	5.971	5.971	6.163	5.971	5.971	6.163
150	6.549	6.549	6.355	6.549	6.355	6.549	6.549	6.549	6.355	6.549
155	7.126	6.933	6.741	6.741	6.741	6.933	7.126	6.933	6.741	6.741
160	7.318	7.126	6.933	7.126	6.933	7.126	7.318	7.126	6.933	7.126
165	7.318	7.126	7.126	7.318	7.126	7.126	7.318	7.126	7.126	7.318
170	7.318	7.318	7.126	7.318	7.126	7.318	7.318	7.318	7.126	7.318
175	7.318	7.318	7.318	7.318	7.318	7.318	7.318	7.318	7.318	7.318
180	7.318	7.318	7.318	7.318	7.318	7.318	7.318	7.318	7.318	7.318

**Vert. Angles**      **Horizontal Angles**

	<u>300</u>	<u>330</u>	<u>360</u>
0	5654.223	5654.223	5654.223
5	5604.726	5607.038	5604.149
10	5463.746	5468.561	5474.725
15	5245.536	5246.113	5252.662
20	4989.576	4991.117	4999.783
25	4704.534	4718.593	4727.646
30	4437.982	4440.486	4456.471
35	4163.919	4162.185	4163.919
40	3767.749	3786.816	3820.328
45	3090.197	3137.961	3182.836
50	2145.708	2160.153	2195.976
55	1304.451	1292.317	1283.650
60	838.369	815.450	797.538

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : CASHTMOWT30WBD120-277V.IES

CANDELA TABULATION - (Cont.)

65	626.322	589.150	603.402
70	419.858	397.710	422.748
75	236.315	221.485	234.774
80	98.802	80.890	96.491
85	22.534	19.645	20.222
90	1.733	1.349	1.349
95	0.770	0.770	0.963
100	0.770	0.770	0.770
105	0.963	0.963	1.155
110	1.349	1.349	1.541
115	1.926	1.926	1.926
120	2.504	2.504	2.696
125	3.082	3.082	3.274
130	3.851	3.851	3.851
135	4.622	4.622	4.815
140	5.200	5.200	5.392
145	5.971	5.971	6.163
150	6.355	6.549	6.549
155	6.741	6.933	7.126
160	6.933	7.126	7.318
165	7.126	7.126	7.318
170	7.126	7.318	7.318
175	7.318	7.318	7.318
180	7.318	7.318	7.318

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CASHTMOWT30WBD120-277V.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2013.94	17.20	17.80
0-30	4195.38	35.90	37.10
0-40	6789.36	58.00	60.10
0-60	10379.65	88.70	91.80
0-80	11245.5	96.10	99.50
0-90	11283.54	96.40	99.80
10-90	10752.05	91.90	95.10
20-40	4775.42	40.80	42.20
20-50	7112.5	60.80	62.90
40-70	4198.89	35.90	37.10
60-80	865.86	7.40	7.70
70-80	257.25	2.20	2.30
80-90	38.03	0.30	0.30
90-110	2.21	0.00	0.00
90-120	4.14	0.00	0.00
90-130	6.99	0.10	0.10
90-150	14.30	0.10	0.10
90-180	20.18	0.20	0.20
110-180	17.97	0.20	0.20
0-180	11303.72	96.60	100.00

Total Luminaire Efficiency = 96.60%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	531.48
10-20	1482.46
20-30	2181.44
30-40	2593.98
40-50	2337.08
50-60	1253.21
60-70	608.60
70-80	257.25
80-90	38.03
90-100	1.10
100-110	1.10
110-120	1.94
120-130	2.85
130-140	3.57
140-150	3.73
150-160	3.15
160-170	2.03
170-180	0.70

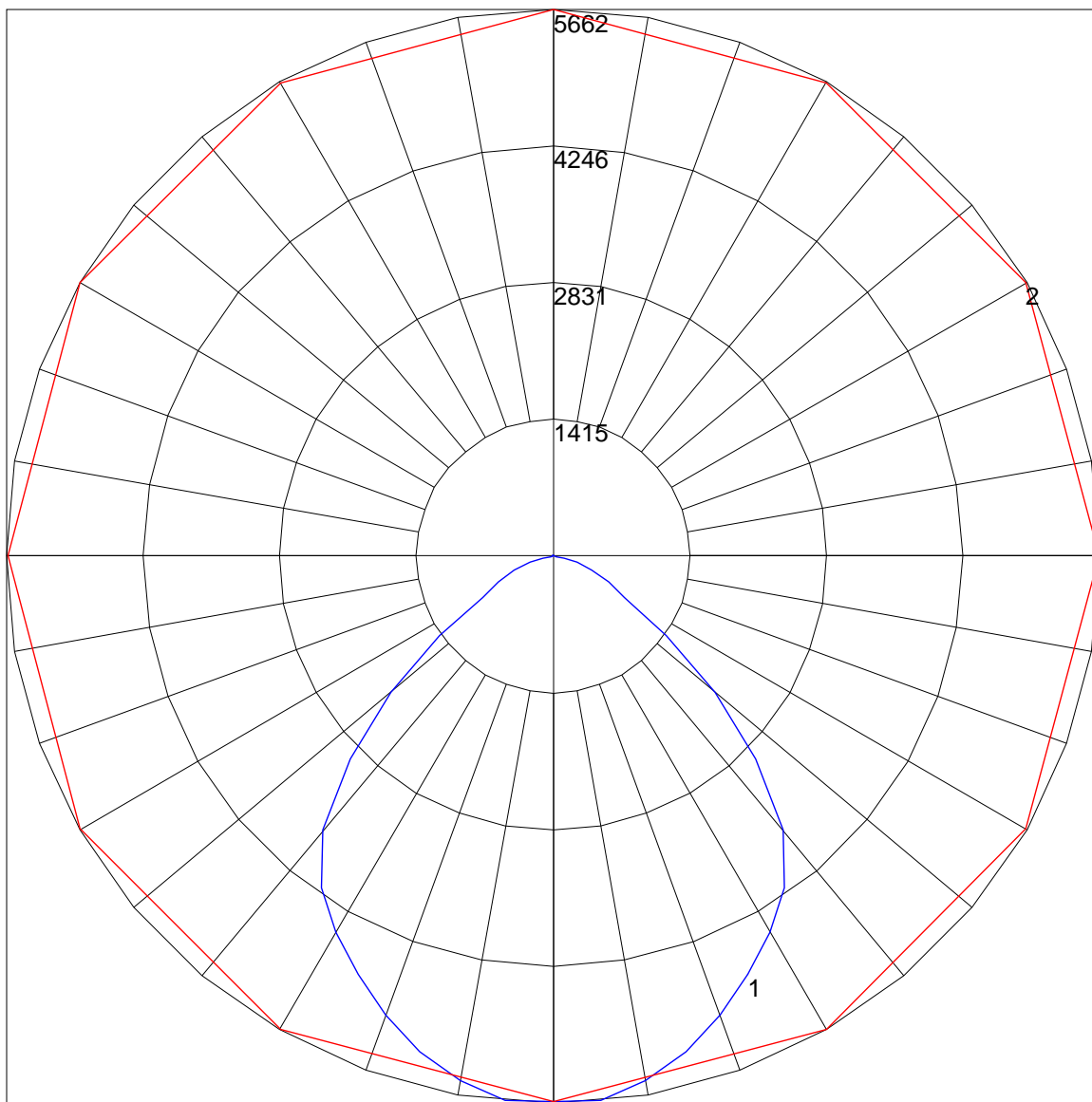
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CASHTMOWT30WBD120-277V.IES**

**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	100	97	105	101	99	96	97	95	93	94	92	90	90	89	87	85
2	99	93	87	83	97	91	86	82	88	84	80	85	81	78	82	79	77	75
3	92	83	77	72	90	82	76	71	79	74	70	77	72	68	74	71	67	65
4	85	75	68	62	83	74	67	62	72	66	61	70	64	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	44	55	48	43	53	47	43	52	47	43	41
8	64	52	45	39	63	51	44	39	50	44	39	49	43	39	48	43	39	37
9	60	48	41	36	59	48	41	36	46	40	36	45	40	35	45	39	35	34
10	56	45	37	33	55	44	37	33	43	37	33	42	36	32	41	36	32	31

POLAR GRAPH



Maximum Candela = 5661.927 Located At Horizontal Angle = 90, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)