



IES INDOOR REPORT

PHOTOMETRIC FILENAME : CASHTMOWT40WBD120-277V.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB]
 [TESTDATE] 2017-3-23
 [ISSUEDATE] 2017-3-23
 [MANUFAC] BEGHELLI
 [LUMCAT]
 [LUMINAIRE] CASHTMOWT40WBD120-277V
 [LAMPCAT]
 [LAMP]

CHARACTERISTICS

Lumens Per Lamp	11701.57 (1 lamp)
Total Lamp Lumens	11701.57
Luminaire Lumens	11702
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	117
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

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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	5853.233	5853.233	5853.233	5853.233	5853.233	5853.233	5853.233	5853.233	5853.233	5853.233
5	5801.396	5804.387	5801.994	5861.208	5801.994	5804.387	5801.396	5804.387	5801.994	5861.208
10	5667.417	5661.036	5656.052	5711.678	5656.052	5661.036	5667.417	5661.036	5656.052	5711.678
15	5437.538	5430.759	5430.161	5502.135	5430.161	5430.759	5437.538	5430.759	5430.161	5502.135
20	5175.759	5166.788	5165.192	5234.574	5165.192	5166.788	5175.759	5166.788	5165.192	5234.574
25	4894.043	4884.672	4870.118	4940.298	4870.118	4884.672	4894.043	4884.672	4870.118	4940.298
30	4613.324	4596.776	4594.184	4653.997	4594.184	4596.776	4613.324	4596.776	4594.184	4653.997
35	4310.475	4308.680	4310.475	4334.599	4310.475	4308.680	4310.475	4308.680	4310.475	4334.599
40	3954.791	3920.099	3900.361	3840.748	3900.361	3920.099	3954.791	3920.099	3900.361	3840.748
45	3294.861	3248.407	3198.962	3067.574	3198.962	3248.407	3294.861	3248.407	3198.962	3067.574
50	2273.267	2236.183	2221.230	2271.672	2221.230	2236.183	2273.267	2236.183	2221.230	2271.672
55	1328.830	1337.802	1350.363	1480.355	1350.363	1337.802	1328.830	1337.802	1350.363	1480.355
60	825.609	844.151	867.877	878.842	867.877	844.151	825.609	844.151	867.877	878.842
65	624.640	609.886	648.366	650.559	648.366	609.886	624.640	609.886	648.366	650.559
70	437.627	411.708	434.636	442.811	434.636	411.708	437.627	411.708	434.636	442.811
75	243.037	229.281	244.632	262.377	244.632	229.281	243.037	229.281	244.632	262.377
80	99.887	83.737	102.279	113.245	102.279	83.737	99.887	83.737	102.279	113.245
85	20.934	20.336	23.327	28.311	23.327	20.336	20.934	20.336	23.327	28.311
90	1.396	1.396	1.794	2.193	1.794	1.396	1.396	1.396	1.794	2.193
95	0.997	0.797	0.797	0.997	0.797	0.797	0.997	0.797	0.797	0.997
100	0.797	0.797	0.797	0.797	0.797	0.797	0.797	0.797	0.797	0.797
105	1.196	0.997	0.997	0.997	0.997	0.997	1.196	0.997	0.997	0.997
110	1.595	1.396	1.396	1.595	1.396	1.396	1.595	1.396	1.396	1.595
115	1.994	1.994	1.994	1.994	1.994	1.994	1.994	1.994	1.994	1.994
120	2.791	2.592	2.592	2.791	2.592	2.592	2.791	2.592	2.592	2.791
125	3.389	3.190	3.190	3.389	3.190	3.190	3.389	3.190	3.190	3.389
130	3.987	3.987	3.987	4.187	3.987	3.987	3.987	3.987	3.987	4.187
135	4.984	4.785	4.785	4.984	4.785	4.785	4.984	4.785	4.785	4.984
140	5.582	5.383	5.383	5.582	5.383	5.383	5.582	5.383	5.383	5.582
145	6.380	6.181	6.181	6.380	6.181	6.181	6.380	6.181	6.181	6.380
150	6.779	6.779	6.579	6.779	6.579	6.779	6.779	6.779	6.579	6.779
155	7.377	7.177	6.978	6.978	6.978	7.177	7.377	7.177	6.978	6.978
160	7.576	7.377	7.177	7.377	7.177	7.377	7.576	7.377	7.177	7.377
165	7.576	7.377	7.377	7.576	7.377	7.377	7.576	7.377	7.377	7.576
170	7.576	7.576	7.377	7.576	7.377	7.576	7.576	7.576	7.377	7.576
175	7.576	7.576	7.576	7.576	7.576	7.576	7.576	7.576	7.576	7.576
180	7.576	7.576	7.576	7.576	7.576	7.576	7.576	7.576	7.576	7.576

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>330</u>	<u>360</u>
0	5853.233	5853.233	5853.233
5	5801.994	5804.387	5801.396
10	5656.052	5661.036	5667.417
15	5430.161	5430.759	5437.538
20	5165.192	5166.788	5175.759
25	4870.118	4884.672	4894.043
30	4594.184	4596.776	4613.324
35	4310.475	4308.680	4310.475
40	3900.361	3920.099	3954.791
45	3198.962	3248.407	3294.861
50	2221.230	2236.183	2273.267
55	1350.363	1337.802	1328.830
60	867.877	844.151	825.609

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CANDELA TABULATION - (Cont.)

65	648.366	609.886	624.640
70	434.636	411.708	437.627
75	244.632	229.281	243.037
80	102.279	83.737	99.887
85	23.327	20.336	20.934
90	1.794	1.396	1.396
95	0.797	0.797	0.997
100	0.797	0.797	0.797
105	0.997	0.997	1.196
110	1.396	1.396	1.595
115	1.994	1.994	1.994
120	2.592	2.592	2.791
125	3.190	3.190	3.389
130	3.987	3.987	3.987
135	4.785	4.785	4.984
140	5.383	5.383	5.582
145	6.181	6.181	6.380
150	6.579	6.779	6.779
155	6.978	7.177	7.377
160	7.177	7.377	7.576
165	7.377	7.377	7.576
170	7.377	7.576	7.576
175	7.576	7.576	7.576
180	7.576	7.576	7.576

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2084.83	17.80	17.80
0-30	4343.04	37.10	37.10
0-40	7028.32	60.10	60.10
0-60	10744.98	91.80	91.80
0-80	11641.31	99.50	99.50
0-90	11680.68	99.80	99.80
10-90	11130.49	95.10	95.10
20-40	4943.5	42.20	42.20
20-50	7362.83	62.90	62.90
40-70	4346.67	37.10	37.10
60-80	896.33	7.70	7.70
70-80	266.31	2.30	2.30
80-90	39.37	0.30	0.30
90-110	2.28	0.00	0.00
90-120	4.29	0.00	0.00
90-130	7.24	0.10	0.10
90-150	14.80	0.10	0.10
90-180	20.89	0.20	0.20
110-180	18.61	0.20	0.20
0-180	11701.57	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	550.19
10-20	1534.64
20-30	2258.22
30-40	2685.28
40-50	2419.33
50-60	1297.32
60-70	630.02
70-80	266.31
80-90	39.37
90-100	1.14
100-110	1.14
110-120	2.01
120-130	2.95
130-140	3.70
140-150	3.86
150-160	3.27
160-170	2.11
170-180	0.72

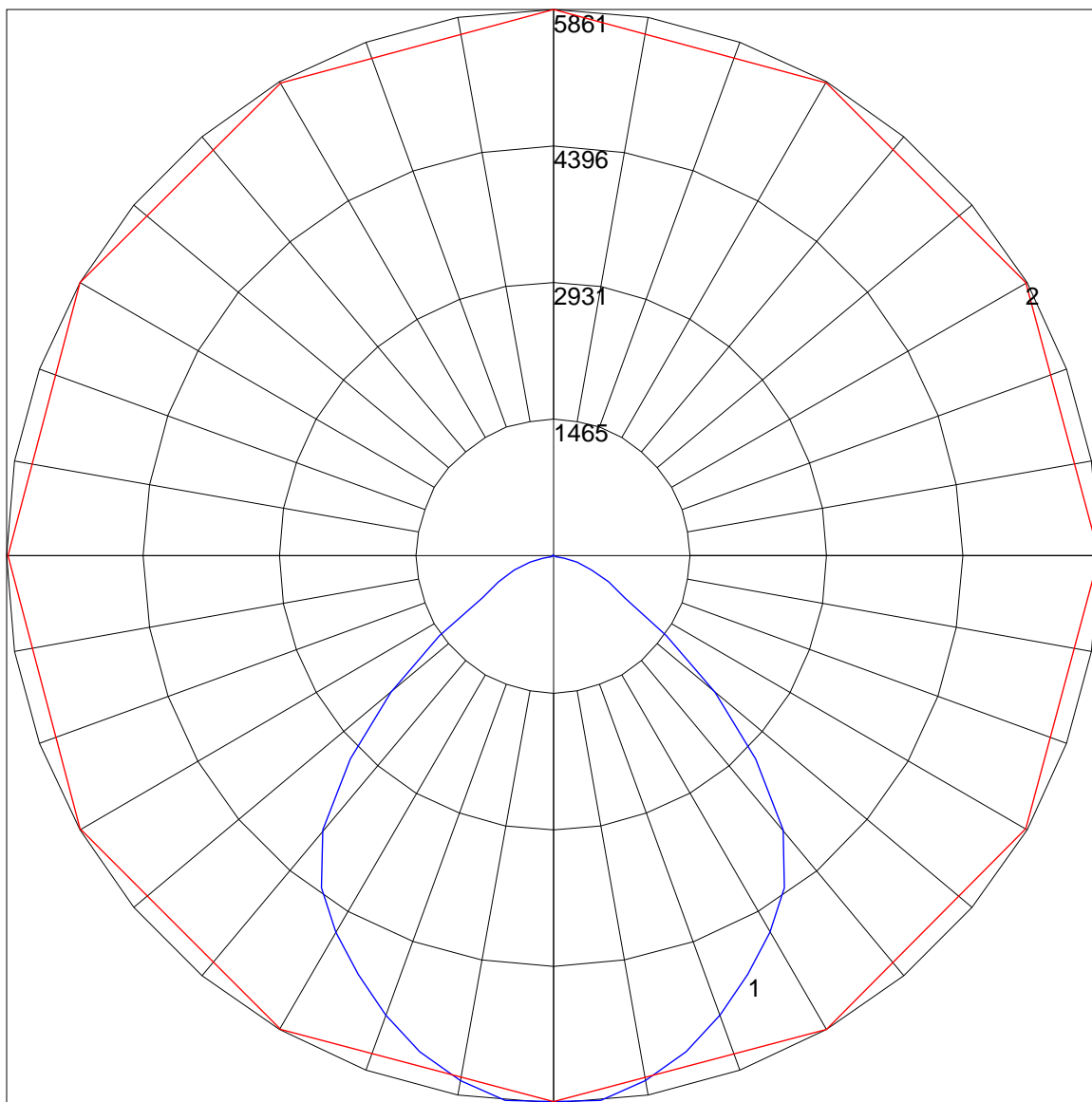
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	62	70	65	62	60
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	37	33	32

POLAR GRAPH



Maximum Candela = 5861.208 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)