



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : CASHTHOWT57WBD120-277V.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TESTLAB]  
 [TESTDATE] 2017-3-23  
 [ISSUEDATE] 2017-3-23  
 [MANUFAC] BEGHELLI  
 [LUMCAT]  
 [LUMINAIRE] CASHTHOWT57WBD120-277V  
 [LAMPCAT]  
 [LAMP]

### CHARACTERISTICS

Lumens Per Lamp	21313.37 (1 lamp)
Total Lamp Lumens	21313.37
Luminaire Lumens	21313
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	185.23
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.22
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>
<b>0</b>	12189.150	12189.150	12189.150	12189.150	12189.150	12189.150	12189.150	12189.150	12189.150	12189.150
<b>5</b>	11940.730	11957.280	11951.300	12205.100	11951.300	11957.280	11940.730	11957.280	11951.300	12205.100
<b>10</b>	11366.530	11351.380	11314.500	11571.490	11314.500	11351.380	11366.530	11351.380	11314.500	11571.490
<b>15</b>	10612.700	10599.140	10572.820	10776.980	10572.820	10599.140	10612.700	10599.140	10572.820	10776.980
<b>20</b>	9901.729	9886.776	9864.248	10074.790	9864.248	9886.776	9901.729	9886.776	9864.248	10074.790
<b>25</b>	9293.438	9257.950	9252.367	9453.138	9252.367	9257.950	9293.438	9257.950	9252.367	9453.138
<b>30</b>	8692.125	8666.007	8698.306	8899.674	8698.306	8666.007	8692.125	8666.007	8698.306	8899.674
<b>35</b>	8128.693	8121.715	8169.365	8365.351	8169.365	8121.715	8128.693	8121.715	8169.365	8365.351
<b>40</b>	7205.390	7221.739	7318.436	7570.046	7318.436	7221.739	7205.390	7221.739	7318.436	7570.046
<b>45</b>	5529.250	5554.770	5641.697	5909.656	5641.697	5554.770	5529.250	5554.770	5641.697	5909.656
<b>50</b>	3528.927	3402.324	3308.618	3315.796	3308.618	3402.324	3528.927	3402.324	3308.618	3315.796
<b>55</b>	2129.319	2081.070	1960.050	1922.368	1960.050	2081.070	2129.319	2081.070	1960.050	1922.368
<b>60</b>	1461.016	1461.614	1408.580	1445.664	1408.580	1461.614	1461.016	1461.614	1408.580	1445.664
<b>65</b>	1144.010	1139.425	1103.936	1130.054	1103.936	1139.425	1144.010	1139.425	1103.936	1130.054
<b>70</b>	760.613	715.953	751.043	768.588	751.043	715.953	760.613	715.953	751.043	768.588
<b>75</b>	432.443	359.073	384.195	441.016	384.195	359.073	432.443	359.073	384.195	441.016
<b>80</b>	181.231	121.419	128.397	174.054	128.397	121.419	181.231	121.419	128.397	174.054
<b>85</b>	33.296	25.919	28.112	30.106	28.112	25.919	33.296	25.919	28.112	30.106
<b>90</b>	3.190	2.791	2.392	1.794	2.392	2.791	3.190	2.791	2.392	1.794
<b>95</b>	1.396	1.196	1.196	1.595	1.196	1.196	1.396	1.196	1.196	1.595
<b>100</b>	1.396	1.396	1.396	1.396	1.396	1.396	1.396	1.396	1.396	1.396
<b>105</b>	1.794	1.794	1.595	1.794	1.595	1.794	1.794	1.794	1.595	1.794
<b>110</b>	2.592	2.193	2.193	2.193	2.193	2.193	2.592	2.193	2.193	2.193
<b>115</b>	3.389	3.190	3.190	3.190	3.190	3.190	3.389	3.190	3.190	3.190
<b>120</b>	4.386	4.386	4.386	4.386	4.386	4.386	4.386	4.386	4.386	4.386
<b>125</b>	5.582	5.582	5.582	5.782	5.582	5.582	5.582	5.582	5.582	5.782
<b>130</b>	6.978	6.978	6.779	7.177	6.779	6.978	6.978	6.978	6.779	7.177
<b>135</b>	8.374	8.374	8.174	8.374	8.174	8.374	8.374	8.374	8.174	8.374
<b>140</b>	9.769	9.570	9.371	9.570	9.371	9.570	9.769	9.570	9.371	9.570
<b>145</b>	10.966	10.966	10.567	10.966	10.567	10.966	10.966	10.966	10.567	10.966
<b>150</b>	12.162	11.962	11.763	11.763	11.763	11.962	12.162	11.962	11.763	11.763
<b>155</b>	12.959	12.760	12.561	12.760	12.561	12.760	12.959	12.760	12.561	12.760
<b>160</b>	13.358	13.358	13.159	13.557	13.159	13.358	13.358	13.358	13.159	13.557
<b>165</b>	13.757	13.557	13.557	13.757	13.557	13.557	13.757	13.557	13.557	13.757
<b>170</b>	13.757	13.557	13.358	13.956	13.358	13.557	13.757	13.557	13.358	13.956
<b>175</b>	14.156	13.757	13.757	14.156	13.757	13.757	14.156	13.757	13.757	14.156
<b>180</b>	14.156	14.156	14.156	14.156	14.156	14.156	14.156	14.156	14.156	14.156

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

	<u>300</u>	<u>330</u>	<u>360</u>
<b>0</b>	12189.150	12189.150	12189.150
<b>5</b>	11951.300	11957.280	11940.730
<b>10</b>	11314.500	11351.380	11366.530
<b>15</b>	10572.820	10599.140	10612.700
<b>20</b>	9864.248	9886.776	9901.729
<b>25</b>	9252.367	9257.950	9293.438
<b>30</b>	8698.306	8666.007	8692.125
<b>35</b>	8169.365	8121.715	8128.693
<b>40</b>	7318.436	7221.739	7205.390
<b>45</b>	5641.697	5554.770	5529.250
<b>50</b>	3308.618	3402.324	3528.927
<b>55</b>	1960.050	2081.070	2129.319
<b>60</b>	1408.580	1461.614	1461.016

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CANDELA TABULATION - (Cont.)

65	1103.936	1139.425	1144.010
70	751.043	715.953	760.613
75	384.195	359.073	432.443
80	128.397	121.419	181.231
85	28.112	25.919	33.296
90	2.392	2.791	3.190
95	1.196	1.196	1.396
100	1.396	1.396	1.396
105	1.595	1.794	1.794
110	2.193	2.193	2.592
115	3.190	3.190	3.389
120	4.386	4.386	4.386
125	5.582	5.582	5.582
130	6.779	6.978	6.978
135	8.174	8.374	8.374
140	9.371	9.570	9.769
145	10.567	10.966	10.966
150	11.763	11.962	12.162
155	12.561	12.760	12.959
160	13.159	13.358	13.358
165	13.557	13.557	13.757
170	13.358	13.557	13.757
175	13.757	13.757	14.156
180	14.156	14.156	14.156

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4122.66	19.30	19.30
0-30	8416.95	39.50	39.50
0-40	13489.67	63.30	63.30
0-60	19683.72	92.40	92.40
0-80	21222.28	99.60	99.60
0-90	21277.29	99.80	99.80
10-90	20152.09	94.60	94.60
20-40	9367.02	43.90	43.90
20-50	13586.33	63.70	63.70
40-70	7291.99	34.20	34.20
60-80	1538.56	7.20	7.20
70-80	440.62	2.10	2.10
80-90	55.01	0.30	0.30
90-110	3.66	0.00	0.00
90-120	6.90	0.00	0.00
90-130	11.95	0.10	0.10
90-150	25.08	0.10	0.10
90-180	36.08	0.20	0.20
110-180	32.41	0.20	0.20
0-180	21313.37	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1125.19
10-20	2997.46
20-30	4294.29
30-40	5072.73
40-50	4219.31
50-60	1974.74
60-70	1097.94
70-80	440.62
80-90	55.01
90-100	1.79
100-110	1.88
110-120	3.24
120-130	5.04
130-140	6.39
140-150	6.75
150-160	5.85
160-170	3.84
170-180	1.32

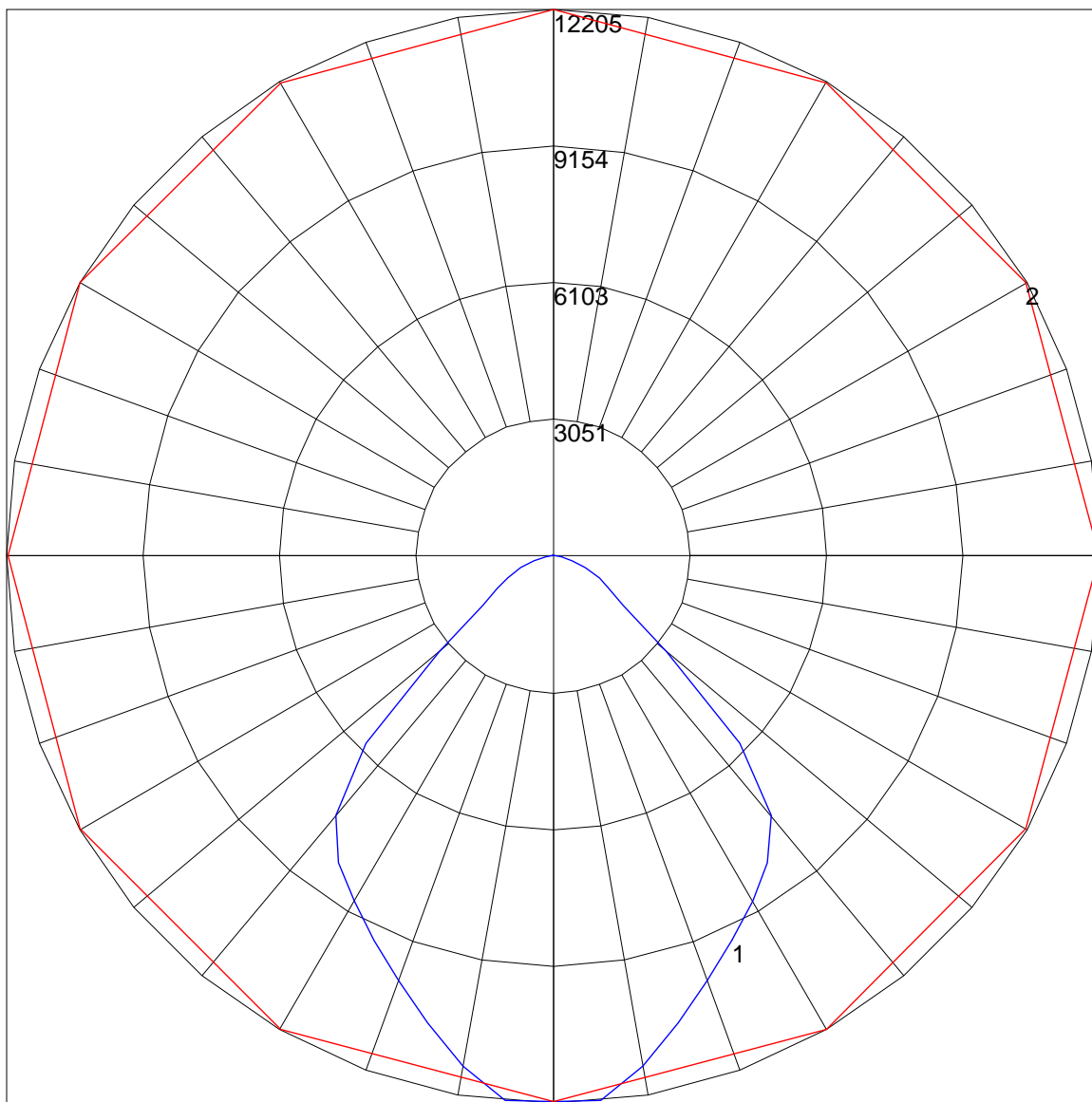
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	47	57	51	46	55	50	46	44
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	48	43	38	48	42	38	37
10	60	48	40	36	58	47	40	35	46	40	35	45	39	35	44	39	35	33

POLAR GRAPH



Maximum Candela = 12205.1 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)