



IES INDOOR REPORT

PHOTOMETRIC FILENAME : CASHTLOWT40WBD120-277V.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[TESTDATE]

[ISSUEDATE] 2017-4-6

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] CASHTLOWT40WBD120-277V

[LAMPCAT]

[LAMP]

CHARACTERISTICS

Lumens Per Lamp	3131.948 (1 lamp)
Total Lamp Lumens	3131.948
Luminaire Lumens	3132
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	112
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

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	1472.579	1472.579	1472.579	1472.579	1472.579	1472.579	1472.579	1472.579	1472.579	1472.579
5	1447.857	1457.626	1455.832	1470.386	1470.386	1474.374	1483.545	1475.371	1480.554	1481.551
10	1420.343	1427.720	1425.328	1439.882	1450.648	1458.224	1472.181	1464.604	1473.377	1468.393
15	1380.468	1384.057	1381.465	1388.244	1415.359	1422.935	1438.885	1434.698	1435.695	1434.698
20	1328.432	1333.815	1339.796	1344.980	1362.923	1365.316	1382.861	1387.247	1380.867	1385.054
25	1268.221	1277.791	1280.781	1289.155	1303.709	1304.906	1326.239	1327.634	1326.039	1321.454
30	1210.203	1223.561	1220.770	1236.919	1242.501	1245.691	1264.034	1255.261	1252.071	1251.274
35	1143.213	1151.188	1154.976	1169.131	1177.904	1179.698	1192.060	1185.680	1184.882	1176.508
40	1051.700	1067.849	1079.612	1077.021	1089.382	1103.936	1112.509	1110.914	1107.924	1100.945
45	862.693	876.051	903.764	929.085	933.670	973.147	1025.582	1015.613	1012.423	1015.015
50	554.062	558.248	583.370	624.241	635.406	743.068	810.656	837.373	832.986	826.407
55	263.374	278.526	298.862	295.074	322.189	389.378	474.511	467.932	435.633	467.932
60	178.041	187.811	197.979	194.589	197.580	213.729	232.670	230.876	218.315	226.888
65	133.382	133.980	143.350	152.721	157.107	162.889	161.294	153.518	156.509	153.518
70	96.098	95.102	87.725	103.077	101.482	113.643	95.899	108.061	109.656	108.061
75	48.448	47.052	44.859	54.828	55.625	56.822	49.046	58.217	54.230	53.632
80	16.548	15.551	15.751	16.747	19.140	18.342	15.152	17.944	18.542	17.545
85	3.788	3.589	3.389	3.389	3.190	3.389	3.389	3.190	2.991	3.190
90	0.399	0.399	0.598	0.399	0.598	0.399	0.399	0.399	0.399	0.199
95	0.199	0.399	0.399	0.399	0.399	0.399	0.199	0.199	0.199	0.199
100	0.399	0.399	0.399	0.399	0.399	0.399	0.199	0.199	0.199	0.199
105	0.399	0.399	0.399	0.399	0.399	0.399	0.199	0.199	0.199	0.399
110	0.797	0.598	0.598	0.598	0.598	0.399	0.598	0.399	0.399	0.399
115	0.797	0.797	0.598	0.797	0.598	0.598	0.598	0.598	0.598	0.598
120	0.997	0.997	0.797	0.797	0.797	0.598	0.598	0.598	0.797	0.598
125	1.196	1.196	1.196	0.997	0.997	0.997	0.797	0.797	0.997	0.797
130	1.595	1.396	1.396	1.396	1.196	1.196	0.997	0.997	0.997	0.997
135	1.595	1.794	1.595	1.396	1.595	1.196	1.196	1.396	1.196	1.396
140	1.794	1.794	1.794	1.794	1.595	1.595	1.396	1.595	1.595	1.595
145	2.193	1.994	1.994	1.794	1.794	1.794	1.595	1.595	1.794	1.595
150	2.193	2.193	2.193	1.994	1.994	1.794	1.794	1.794	1.794	1.794
155	2.392	2.392	2.193	2.193	2.193	1.994	1.994	1.794	1.994	2.193
160	2.193	2.392	2.392	2.193	2.392	1.994	2.193	2.193	1.994	1.994
165	2.392	2.392	2.193	2.392	2.193	2.193	2.193	2.193	2.193	2.193
170	2.392	2.392	2.193	2.193	2.193	2.193	2.193	2.193	1.994	2.193
175	2.193	2.193	2.193	2.193	2.193	2.193	2.193	2.193	2.392	2.193
180	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392	2.392

Vert. Angles **Horizontal 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	1472.579	1472.579	1472.579	1472.579	1472.579	1472.579	1472.579
5	1474.772	1466.399	1466.997	1457.626	1457.427	1458.025	1447.857
10	1454.636	1438.088	1440.281	1422.138	1424.730	1418.350	1420.343
15	1418.748	1395.621	1397.415	1375.683	1378.873	1375.085	1380.468
20	1365.715	1352.755	1345.578	1328.432	1332.021	1328.432	1328.432
25	1309.691	1298.924	1283.573	1274.800	1272.607	1267.224	1268.221
30	1244.495	1241.106	1225.156	1209.605	1210.801	1205.418	1210.203
35	1179.898	1174.116	1157.767	1139.624	1146.602	1138.428	1143.213
40	1094.765	1089.182	1072.036	1056.884	1063.264	1056.086	1051.700
45	998.666	953.608	900.973	884.026	873.061	851.129	862.693
50	767.990	680.664	592.142	549.077	552.068	541.501	554.062
55	430.250	346.712	311.622	287.299	287.299	264.969	263.374
60	225.891	202.963	194.988	188.808	194.191	183.026	178.041

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CANDELA TABULATION - (Cont.)

65	158.303	158.702	153.518	148.733	141.955	131.587	133.382
70	96.896	107.662	103.077	101.282	86.529	94.503	96.098
75	49.046	58.815	60.012	53.632	44.460	47.650	48.448
80	15.551	17.146	20.137	16.947	14.554	15.751	16.548
85	3.389	3.190	3.589	3.389	3.190	3.589	3.788
90	0.399	0.199	0.399	0.598	0.399	0.399	0.399
95	0.199	0.199	0.199	0.199	0.399	0.199	0.199
100	0.199	0.199	0.399	0.399	0.399	0.199	0.399
105	0.199	0.199	0.399	0.399	0.399	0.399	0.399
110	0.199	0.399	0.399	0.598	0.598	0.598	0.797
115	0.598	0.598	0.598	0.797	0.598	0.797	0.797
120	0.598	0.797	0.797	0.997	0.997	0.997	0.997
125	0.997	0.997	0.997	1.196	1.196	1.196	1.196
130	0.997	0.997	1.196	1.196	1.396	1.396	1.595
135	1.396	1.396	1.396	1.595	1.595	1.595	1.595
140	1.595	1.595	1.595	1.595	1.595	1.794	1.794
145	1.794	1.794	1.994	1.994	1.994	1.994	2.193
150	1.794	1.794	1.794	1.994	1.994	2.193	2.193
155	1.994	1.994	1.994	2.193	2.193	2.392	2.392
160	2.193	1.994	1.994	2.193	2.193	2.193	2.193
165	1.994	2.193	2.193	2.193	2.193	2.392	2.392
170	2.193	2.193	2.193	2.193	2.193	2.193	2.392
175	2.392	2.193	2.193	2.193	2.193	2.193	2.193
180	2.392	2.392	2.392	2.392	2.392	2.392	2.392

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	535.45	17.10	17.10
0-30	1133.48	36.20	36.20
0-40	1862.05	59.50	59.50
0-60	2910.96	92.90	92.90
0-80	3119.03	99.60	99.60
0-90	3125.58	99.80	99.80
10-90	2986.3	95.30	95.30
20-40	1326.6	42.40	42.40
20-50	2025.42	64.70	64.70
40-70	1198.5	38.30	38.30
60-80	208.07	6.60	6.60
70-80	58.47	1.90	1.90
80-90	6.56	0.20	0.20
90-110	0.74	0.00	0.00
90-120	1.39	0.00	0.00
90-130	2.30	0.10	0.10
90-150	4.56	0.10	0.10
90-180	6.37	0.20	0.20
110-180	5.62	0.20	0.20
0-180	3131.95	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.29
10-20	396.17
20-30	598.02
30-40	728.58
40-50	698.82
50-60	350.09
60-70	149.60
70-80	58.47
80-90	6.56
90-100	0.35
100-110	0.39
110-120	0.65
120-130	0.91
130-140	1.11
140-150	1.14
150-160	0.97
160-170	0.63
170-180	0.21

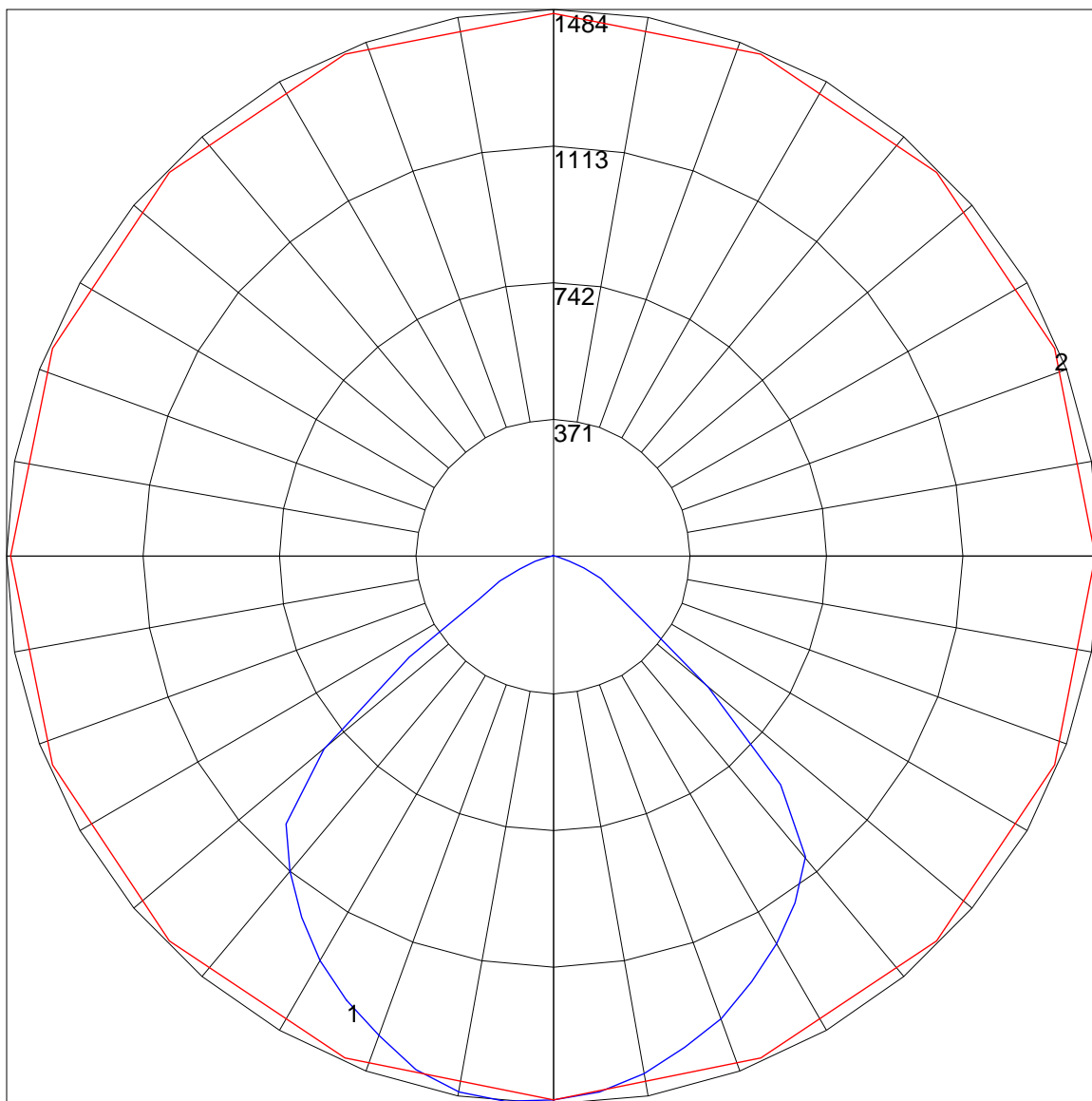
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78
3	95	87	80	74	93	85	79	74	82	77	72	79	75	71	77	73	70	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60
5	82	71	63	57	80	70	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	49	58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	49	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36	35
10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33	31

POLAR GRAPH



Maximum Candela = 1483.545 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)