



IES INDOOR REPORT

PHOTOMETRIC FILENAME : CASHHOWT30WBD120-277V.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB]
 [TESTDATE] 2017-3-23
 [ISSUEDATE] 2017-3-23
 [MANUFAC] BEGHELLI
 [LUMCAT]
 [LUMINAIRE] CASHHOWT30WBD120-277V
 [LAMPCAT]
 [LAMP]

CHARACTERISTICS

Lumens Per Lamp	21313.37 (1 lamp)
Total Lamp Lumens	21313.37
Luminaire Lumens	20589
Total Luminaire Efficiency	97 %
Luminaire Efficacy Rating (LER)	111
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>
0	11774.719	11774.719	11774.719	11774.719	11774.719	11774.719	11774.719	11774.719	11774.719	11774.719
5	11534.745	11550.733	11544.956	11790.127	11544.956	11550.733	11534.745	11550.733	11544.956	11790.127
10	10980.068	10965.433	10929.807	11178.060	10929.807	10965.433	10980.068	10965.433	10929.807	11178.060
15	10251.868	10238.769	10213.344	10410.563	10213.344	10238.769	10251.868	10238.769	10213.344	10410.563
20	9565.070	9550.626	9528.864	9732.247	9528.864	9550.626	9565.070	9550.626	9528.864	9732.247
25	8977.461	8943.180	8937.787	9131.732	8937.787	8943.180	8977.461	8943.180	8937.787	9131.732
30	8396.593	8371.363	8402.564	8597.085	8402.564	8371.363	8396.593	8371.363	8402.564	8597.085
35	7852.318	7845.577	7891.607	8080.929	7891.607	7845.577	7852.318	7845.577	7891.607	8080.929
40	6960.407	6976.200	7069.609	7312.665	7069.609	6976.200	6960.407	6976.200	7069.609	7312.665
45	5341.256	5365.908	5449.879	5708.728	5449.879	5365.908	5341.256	5365.908	5449.879	5708.728
50	3408.944	3286.645	3196.125	3203.059	3196.125	3286.645	3408.944	3286.645	3196.125	3203.059
55	2056.922	2010.314	1893.408	1857.008	1893.408	2010.314	2056.922	2010.314	1893.408	1857.008
60	1411.341	1411.919	1360.688	1396.511	1360.688	1411.919	1411.341	1411.919	1360.688	1396.511
65	1105.114	1100.685	1066.402	1091.632	1066.402	1100.685	1105.114	1100.685	1066.402	1091.632
70	734.752	691.611	725.508	742.456	725.508	691.611	734.752	691.611	725.508	742.456
75	417.740	346.865	371.132	426.021	371.132	346.865	417.740	346.865	371.132	426.021
80	175.069	117.291	124.032	168.136	124.032	117.291	175.069	117.291	124.032	168.136
85	32.164	25.038	27.156	29.082	27.156	25.038	32.164	25.038	27.156	29.082
90	3.082	2.696	2.311	1.733	2.311	2.696	3.082	2.696	2.311	1.733
95	1.349	1.155	1.155	1.541	1.155	1.155	1.349	1.155	1.155	1.541
100	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349
105	1.733	1.733	1.541	1.733	1.541	1.733	1.733	1.733	1.541	1.733
110	2.504	2.118	2.118	2.118	2.118	2.118	2.504	2.118	2.118	2.118
115	3.274	3.082	3.082	3.082	3.082	3.082	3.274	3.082	3.082	3.082
120	4.237	4.237	4.237	4.237	4.237	4.237	4.237	4.237	4.237	4.237
125	5.392	5.392	5.392	5.585	5.392	5.392	5.392	5.392	5.392	5.585
130	6.741	6.741	6.549	6.933	6.549	6.741	6.741	6.741	6.549	6.933
135	8.089	8.089	7.896	8.089	7.896	8.089	8.089	8.089	7.896	8.089
140	9.437	9.245	9.052	9.245	9.052	9.245	9.437	9.245	9.052	9.245
145	10.593	10.593	10.208	10.593	10.208	10.593	10.593	10.593	10.208	10.593
150	11.748	11.555	11.363	11.363	11.363	11.555	11.748	11.555	11.363	11.363
155	12.518	12.326	12.134	12.326	12.134	12.326	12.518	12.326	12.134	12.326
160	12.904	12.904	12.712	13.096	12.712	12.904	12.904	12.904	12.712	13.096
165	13.289	13.096	13.096	13.289	13.096	13.096	13.289	13.096	13.096	13.289
170	13.289	13.096	12.904	13.481	12.904	13.096	13.289	13.096	12.904	13.481
175	13.675	13.289	13.289	13.675	13.289	13.289	13.675	13.289	13.289	13.675
180	13.675	13.675	13.675	13.675	13.675	13.675	13.675	13.675	13.675	13.675

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>330</u>	<u>360</u>
0	11774.719	11774.719	11774.719
5	11544.956	11550.733	11534.745
10	10929.807	10965.433	10980.068
15	10213.344	10238.769	10251.868
20	9528.864	9550.626	9565.070
25	8937.787	8943.180	8977.461
30	8402.564	8371.363	8396.593
35	7891.607	7845.577	7852.318
40	7069.609	6976.200	6960.407
45	5449.879	5365.908	5341.256
50	3196.125	3286.645	3408.944
55	1893.408	2010.314	2056.922
60	1360.688	1411.919	1411.341

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CANDELA TABULATION - (Cont.)

65	1066.402	1100.685	1105.114
70	725.508	691.611	734.752
75	371.132	346.865	417.740
80	124.032	117.291	175.069
85	27.156	25.038	32.164
90	2.311	2.696	3.082
95	1.155	1.155	1.349
100	1.349	1.349	1.349
105	1.541	1.733	1.733
110	2.118	2.118	2.504
115	3.082	3.082	3.274
120	4.237	4.237	4.237
125	5.392	5.392	5.392
130	6.549	6.741	6.741
135	7.896	8.089	8.089
140	9.052	9.245	9.437
145	10.208	10.593	10.593
150	11.363	11.555	11.748
155	12.134	12.326	12.518
160	12.712	12.904	12.904
165	13.096	13.096	13.289
170	12.904	13.096	13.289
175	13.289	13.289	13.675
180	13.675	13.675	13.675

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3982.49	18.70	19.30
0-30	8130.77	38.10	39.50
0-40	13031.02	61.10	63.30
0-60	19014.48	89.20	92.40
0-80	20500.72	96.20	99.60
0-90	20553.86	96.40	99.80
10-90	19466.92	91.30	94.60
20-40	9048.54	42.50	43.90
20-50	13124.39	61.60	63.70
40-70	7044.07	33.10	34.20
60-80	1486.25	7.00	7.20
70-80	425.63	2.00	2.10
80-90	53.14	0.20	0.30
90-110	3.54	0.00	0.00
90-120	6.67	0.00	0.00
90-130	11.54	0.10	0.10
90-150	24.22	0.10	0.10
90-180	34.85	0.20	0.20
110-180	31.31	0.10	0.20
0-180	20588.71	96.60	100.00

Total Luminaire Efficiency = 96.60%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1086.94
10-20	2895.55
20-30	4148.28
30-40	4900.25
40-50	4075.86
50-60	1907.6
60-70	1060.61
70-80	425.63
80-90	53.14
90-100	1.73
100-110	1.81
110-120	3.13
120-130	4.87
130-140	6.17
140-150	6.52
150-160	5.65
160-170	3.70
170-180	1.27

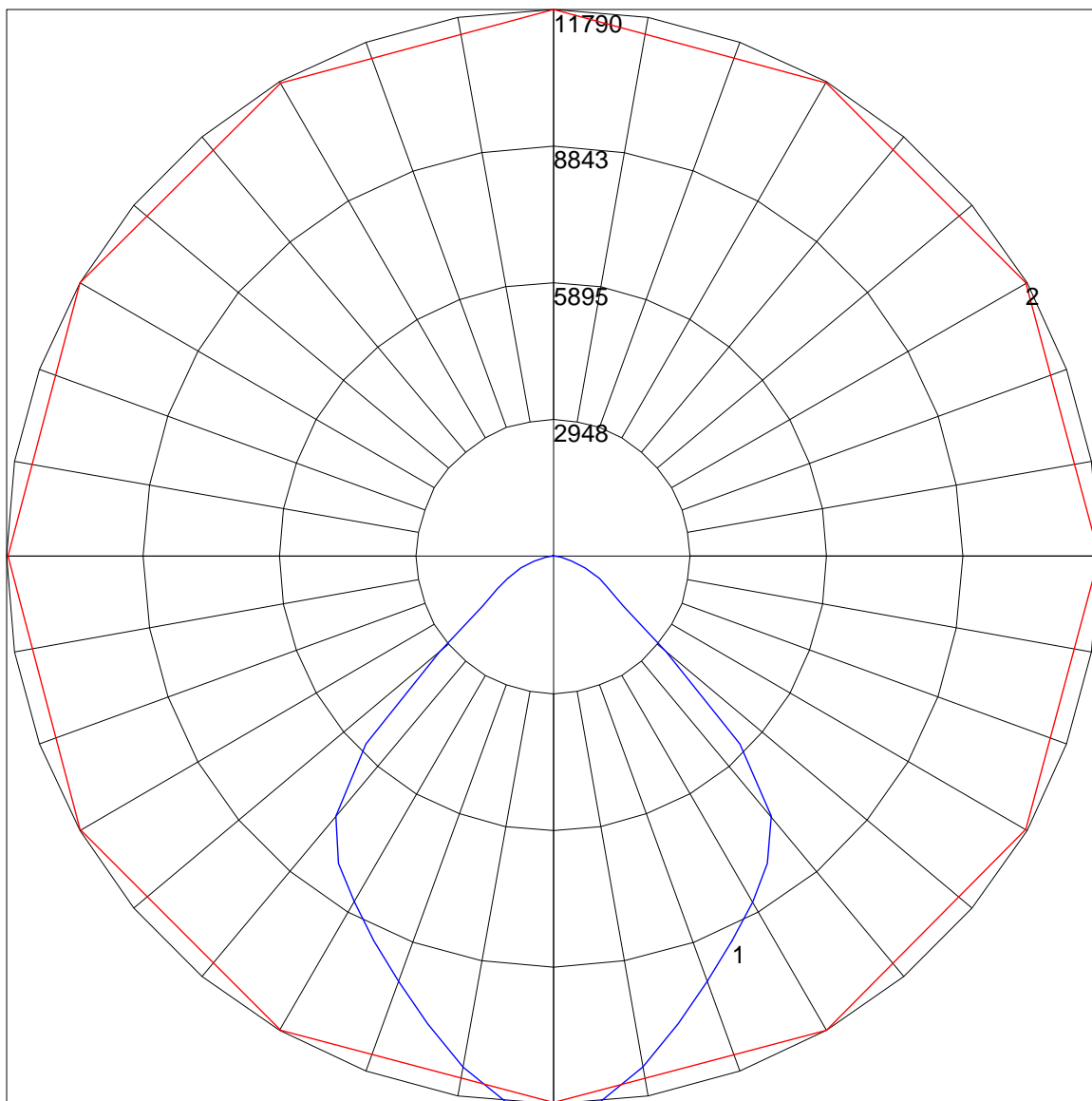
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	115	115	115	112	112	112	112	107	107	107	103	103	103	98	98	98	96
1	108	104	101	98	105	102	99	96	98	95	93	94	92	90	91	89	88	86
2	100	93	88	84	97	92	87	83	88	84	81	85	82	79	83	80	77	76
3	93	84	78	73	90	83	77	72	80	75	71	78	73	70	75	72	68	67
4	86	76	69	64	84	75	68	63	73	67	62	71	66	62	69	64	61	59
5	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	58	54	53
6	74	63	56	50	73	62	55	50	61	55	50	59	54	49	58	53	49	47
7	70	58	51	45	68	57	50	45	56	50	45	55	49	45	53	48	44	43
8	65	53	46	41	64	53	46	41	52	45	41	50	45	41	49	44	40	39
9	61	49	42	37	60	49	42	37	48	42	37	47	41	37	46	41	37	35
10	57	46	39	34	56	45	39	34	44	38	34	44	38	34	43	38	34	32

POLAR GRAPH



Maximum Candela = 11790.127 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)