



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZCAS6004HTVHOWT50120-277V.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] BEGHELLI

[TESTDATE] 24 June 2018

[ISSUEDATE] 2018-06-24 18:10:37

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER]

[MANUFAC] BEGHELLI

[LUMINAIRE] HZCAS6004HTVHOWT50120-277V

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13523
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	100
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
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	5000.82	5000.82	5000.82	5000.82	5000.82	5000.82	5000.82	5000.82	5000.82	5000.82
1	4996.92	5001.50	5008.97	5005.46	5004.23	5000.06	5002.60	5000.77	4999.11	4996.90
2	4995.75	5002.07	5013.07	5007.22	5002.53	4993.24	5006.48	4999.08	4997.38	4996.41
3	4992.43	5004.85	5014.76	5004.43	5004.22	4989.67	5005.36	4995.55	4993.11	5000.28
4	4989.55	5004.94	5009.77	4999.28	5001.32	4984.00	5005.88	4987.25	4977.50	4996.91
5	4984.49	5002.15	5001.78	4990.18	5003.06	4984.54	4993.17	4981.48	4968.34	4992.83
6	4976.07	4997.61	4990.38	4988.84	4998.83	4980.88	4976.64	4970.04	4962.04	4986.01
7	4968.08	4994.16	4981.09	4980.98	4993.58	4970.57	4972.12	4957.80	4957.03	4984.28
8	4959.89	4987.77	4970.78	4966.37	4990.57	4960.59	4965.81	4942.62	4955.79	4974.52
9	4948.07	4970.78	4957.33	4953.27	4978.94	4943.60	4961.46	4938.37	4944.63	4959.24
10	4936.74	4952.11	4948.15	4942.99	4962.79	4930.17	4945.71	4924.18	4925.80	4939.76
11	4920.49	4935.09	4929.46	4927.13	4945.96	4916.53	4923.31	4910.38	4909.09	4923.55
12	4902.69	4926.69	4916.49	4908.63	4926.58	4896.97	4902.52	4892.61	4891.96	4905.57
13	4901.29	4920.98	4895.07	4887.67	4902.10	4871.29	4885.11	4873.73	4881.89	4888.72
14	4884.64	4896.90	4870.89	4867.88	4885.81	4854.11	4868.62	4858.55	4848.98	4862.66
15	4862.83	4876.17	4856.02	4843.80	4872.69	4834.16	4845.52	4830.77	4825.34	4846.88
16	4839.95	4847.84	4843.25	4834.27	4859.28	4810.85	4819.73	4804.76	4816.93	4819.38
17	4807.27	4826.48	4817.63	4811.11	4845.19	4783.84	4802.27	4770.09	4795.01	4799.76
18	4795.43	4805.19	4783.87	4782.20	4818.18	4757.45	4779.78	4749.35	4773.49	4785.75
19	4758.63	4764.54	4761.45	4753.49	4791.98	4734.60	4741.27	4722.72	4744.53	4748.79
20	4736.95	4741.24	4744.24	4723.15	4761.22	4706.52	4722.84	4692.47	4717.86	4723.08
21	4706.77	4714.44	4721.18	4693.20	4732.72	4662.18	4689.12	4666.38	4689.34	4690.59
22	4653.97	4683.89	4692.15	4658.98	4696.73	4638.71	4654.49	4629.61	4654.72	4660.43
23	4627.27	4656.54	4649.63	4628.15	4656.99	4605.28	4621.02	4610.15	4607.39	4626.72
24	4599.77	4632.78	4617.09	4585.09	4622.17	4563.36	4578.59	4574.26	4580.59	4594.83
25	4554.83	4586.64	4585.38	4548.57	4577.68	4526.28	4543.82	4528.94	4543.77	4555.56
26	4525.54	4551.34	4530.59	4515.39	4538.38	4490.28	4512.72	4507.73	4512.94	4521.66
27	4486.34	4509.83	4491.75	4473.82	4492.98	4451.73	4450.67	4459.03	4476.02	4485.80
28	4450.04	4464.09	4474.58	4433.16	4448.27	4413.12	4413.94	4424.09	4409.93	4433.57
29	4415.50	4428.53	4415.74	4397.04	4407.68	4370.65	4375.87	4376.16	4385.83	4391.68
30	4364.27	4401.61	4381.49	4356.57	4365.98	4337.75	4321.34	4331.66	4314.36	4354.05
31	4329.44	4346.73	4322.65	4315.70	4317.48	4285.00	4281.19	4299.93	4283.73	4291.93
32	4271.76	4298.03	4278.11	4274.48	4270.26	4230.99	4227.43	4235.93	4246.20	4259.23
33	4224.58	4247.00	4234.34	4219.00	4222.83	4174.73	4178.69	4186.11	4183.62	4210.52
34	4181.05	4189.10	4193.84	4162.78	4169.05	4123.42	4120.17	4145.98	4124.89	4153.26
35	4137.64	4142.49	4137.26	4109.41	4122.97	4073.88	4071.79	4088.72	4070.78	4100.63
36	4072.54	4092.67	4085.08	4053.64	4067.43	4019.46	4020.41	4040.16	4034.71	4042.63
37	4028.15	4025.77	4037.43	4003.71	4007.67	3966.80	3965.13	3977.42	3959.54	3990.74
38	3967.20	3969.15	3982.03	3951.64	3946.26	3900.47	3894.09	3927.00	3914.27	3929.66
39	3908.58	3923.00	3921.72	3895.39	3886.80	3844.15	3841.67	3857.02	3857.29	3870.55
40	3852.21	3853.45	3857.06	3825.02	3828.76	3771.54	3779.81	3789.11	3796.10	3804.57
41	3791.17	3788.26	3776.90	3761.68	3768.42	3696.22	3725.40	3724.16	3734.50	3733.75
42	3719.95	3728.26	3717.88	3698.74	3700.62	3642.33	3648.03	3650.50	3656.69	3662.83
43	3659.74	3653.15	3655.49	3648.19	3634.08	3580.75	3576.28	3583.24	3588.15	3602.53
44	3594.99	3587.67	3586.11	3570.24	3563.68	3511.60	3516.99	3512.22	3509.68	3516.88
45	3529.81	3525.71	3515.83	3491.09	3490.05	3429.76	3438.81	3435.07	3459.22	3456.38
46	3452.94	3448.83	3448.40	3414.15	3417.48	3373.49	3368.80	3362.65	3372.77	3382.17
47	3369.43	3380.27	3364.37	3336.25	3332.92	3282.68	3301.70	3293.68	3285.62	3310.76
48	3296.01	3310.07	3290.83	3258.52	3248.36	3191.86	3217.30	3199.65	3195.61	3218.41
49	3202.15	3226.15	3209.14	3182.16	3163.84	3101.11	3132.89	3105.62	3105.60	3126.06
50	3110.79	3128.42	3128.31	3092.56	3087.39	3025.59	3048.44	3011.65	3015.72	3033.86
51	3026.49	3047.61	3047.55	3011.34	3005.24	2932.84	2960.71	2924.18	2936.18	2953.46
52	2932.80	2955.72	2974.26	2927.86	2921.71	2843.21	2878.20	2838.37	2846.79	2853.65
53	2850.98	2856.77	2883.32	2839.12	2834.72	2757.07	2800.06	2751.75	2760.38	2769.76

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54	2775.24	2767.75	2797.90	2754.24	2748.80	2674.16	2710.13	2655.91	2676.56	2680.41
55	2683.97	2671.40	2703.01	2672.52	2654.49	2586.99	2622.42	2569.50	2591.76	2591.99
56	2601.74	2586.60	2612.09	2584.16	2563.53	2497.63	2524.18	2480.56	2507.13	2506.57
57	2518.97	2484.10	2513.09	2484.59	2463.88	2408.80	2431.52	2383.51	2418.69	2412.98
58	2419.48	2402.48	2415.58	2380.93	2330.73	2317.36	2333.80	2302.54	2321.58	2326.08
59	2312.64	2306.99	2310.63	2279.59	2106.99	2218.12	2234.55	2212.11	2215.75	2232.03
60	2214.72	2206.68	2206.61	2172.88	1847.17	2105.16	2133.12	2110.70	2121.58	2132.11
61	2107.36	2109.63	2102.34	1991.18	1649.39	1918.32	2030.22	2009.73	2026.86	2021.60
62	2011.59	2002.64	1993.77	1743.51	1442.98	1678.38	1918.60	1909.95	1927.41	1925.86
63	1916.67	1901.99	1893.38	1535.83	1231.52	1478.20	1813.53	1819.31	1833.26	1831.03
64	1820.86	1798.15	1788.63	1329.71	1096.43	1286.74	1712.13	1721.69	1739.04	1731.35
65	1717.02	1701.65	1685.16	1123.59	1024.90	1080.40	1616.15	1620.85	1633.82	1634.43
66	1605.90	1595.71	1579.70	971.71	958.70	942.55	1515.51	1524.56	1521.71	1532.98
67	1494.56	1489.74	1474.17	897.19	886.15	867.16	1405.33	1424.98	1428.72	1426.81
68	1383.21	1386.84	1351.87	834.98	788.71	799.29	1245.15	1313.06	1328.61	1314.19
69	1283.38	1270.32	1154.08	767.50	706.99	729.03	1049.78	1220.40	1232.73	1216.26
70	1188.25	1167.77	946.69	677.41	619.02	641.70	896.26	1120.89	1140.68	1123.01
71	1090.74	1066.91	787.75	598.44	540.22	566.83	727.17	1021.29	1034.89	1029.19
72	981.63	965.80	633.68	514.48	478.72	490.41	592.18	926.24	938.17	934.25
73	884.33	866.96	550.30	445.41	359.70	427.41	519.43	823.11	842.97	834.87
74	792.46	773.16	482.54	386.07	204.27	362.17	451.68	733.23	748.22	742.26
75	698.28	686.49	411.51	233.24	94.32	214.65	377.89	636.70	659.86	645.81
76	614.13	596.84	343.60	107.05	78.23	99.33	313.14	552.84	572.25	561.58
77	526.37	511.41	276.17	78.00	68.63	74.43	251.24	468.57	489.12	474.79
78	449.06	425.34	227.15	67.67	61.63	64.66	200.79	392.86	408.54	393.58
79	369.58	352.90	136.68	60.52	56.26	57.16	116.67	308.89	334.06	317.80
80	295.50	252.92	69.21	54.29	51.83	51.93	61.09	224.67	265.88	216.62
81	230.06	171.30	56.23	49.06	46.26	46.85	51.84	149.47	208.06	145.81
82	177.52	127.66	48.57	42.40	39.88	40.68	44.58	113.07	159.65	110.61
83	131.41	94.20	41.79	35.73	34.22	34.07	38.38	78.31	117.98	78.71
84	93.52	62.55	33.98	29.84	29.54	28.83	30.79	50.45	82.30	51.31
85	63.80	35.71	27.12	24.41	23.02	23.65	23.97	31.18	54.45	29.78
86	41.22	26.27	21.55	16.46	14.80	15.55	18.67	22.93	35.12	21.97
87	25.39	17.76	13.64	7.87	6.51	7.23	11.32	14.28	22.04	14.38
88	15.48	11.93	5.78	2.17	0.76	1.47	4.09	8.52	13.58	8.75
89	9.30	6.00	2.93	1.49	0.49	0.84	1.97	4.13	8.21	4.32
90	4.95	3.55	1.88	1.12	0.44	0.59	1.10	2.07	5.23	2.84
91	4.81	3.26	1.54	0.90	0.44	0.59	1.10	2.07	5.59	2.89
92	4.65	3.16	1.48	0.74	0.44	0.53	1.10	2.07	5.70	2.99
93	4.65	3.15	1.38	0.74	0.44	0.53	1.11	2.07	6.07	3.00
94	4.70	3.15	1.32	0.74	0.44	0.53	1.21	2.13	6.32	3.10
95	4.70	3.15	1.32	0.74	0.44	0.53	1.21	2.28	6.65	3.31
96	4.80	3.20	1.32	0.74	0.44	0.59	1.21	2.28	7.16	3.47
97	4.96	3.36	1.53	0.84	0.44	0.64	1.31	2.28	7.53	3.73
98	5.22	3.57	1.59	0.85	0.44	0.69	1.37	2.49	8.00	3.89
99	5.74	3.88	1.64	0.90	0.65	0.75	1.42	2.59	8.63	4.21
100	5.90	4.09	1.85	0.90	0.71	0.80	1.48	2.70	9.26	4.47
101	6.06	4.31	2.01	0.90	0.71	0.91	1.68	2.80	9.82	4.73
102	6.48	4.57	2.48	1.00	0.93	1.07	1.79	2.85	10.03	4.78
103	6.58	4.73	2.43	1.16	0.98	1.12	2.00	2.90	9.86	4.78
104	6.68	4.99	2.53	1.52	1.15	1.34	2.05	3.01	9.13	4.89
105	6.69	5.04	2.80	1.64	1.26	1.50	2.21	3.16	8.51	4.99
106	6.69	5.10	3.12	1.79	1.47	1.71	2.53	3.11	8.25	5.10
107	6.69	5.35	3.43	1.90	1.53	1.81	2.63	3.22	8.15	5.31
108	6.69	5.67	3.44	2.11	1.64	1.87	2.73	3.78	7.89	5.62
109	6.69	5.83	3.59	2.38	1.91	2.13	2.74	3.89	7.63	6.05

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110	6.69	6.14	3.91	2.59	2.18	2.24	3.00	4.05	7.63	6.36
111	6.69	6.25	4.18	2.85	2.30	2.45	3.05	4.30	7.63	6.41
112	6.69	6.35	4.28	3.11	2.51	2.62	3.21	4.36	7.68	6.46
113	6.69	6.41	4.33	3.33	2.51	2.83	3.36	4.46	7.73	6.30
114	6.69	6.46	4.44	3.53	2.67	3.09	3.42	4.46	7.99	6.15
115	6.69	6.31	4.75	3.70	2.68	3.31	3.63	4.46	8.05	5.94
116	6.69	5.85	4.92	3.91	3.00	3.47	3.94	4.46	8.05	5.88
117	6.69	5.73	5.28	4.06	3.16	3.57	4.15	4.51	8.09	5.89
118	6.69	5.68	5.60	4.28	3.22	3.63	4.26	4.67	7.67	6.00
119	6.48	6.44	5.81	4.28	3.38	3.79	4.52	5.03	7.31	6.53
120	6.48	7.04	5.92	4.44	3.44	4.05	4.68	5.44	7.26	7.25
121	6.63	7.36	6.08	4.54	3.65	4.05	4.78	5.49	8.00	7.67
122	7.40	7.66	6.24	4.90	3.71	4.16	4.78	5.44	8.73	7.67
123	7.84	8.14	6.24	4.91	3.87	4.32	4.78	5.65	9.19	7.68
124	7.79	8.60	6.24	5.12	3.87	4.37	4.84	6.12	9.04	8.10
125	7.78	9.19	6.60	5.33	3.98	4.64	4.89	6.60	9.09	8.54
126	7.78	9.61	6.71	5.49	4.14	4.74	4.89	7.10	9.14	9.35
127	7.73	9.98	6.77	5.70	4.26	4.96	4.99	7.62	9.35	9.88
128	7.73	10.04	6.72	5.86	4.58	5.06	5.05	7.72	9.46	10.04
129	7.73	10.04	6.71	5.81	4.69	5.17	5.10	7.93	9.56	10.20
130	7.73	10.24	6.82	5.86	4.91	5.12	5.16	8.09	9.51	10.41
131	7.83	10.19	6.97	5.86	4.91	5.17	5.41	8.14	9.51	10.51
132	7.94	10.30	7.03	5.86	4.97	5.22	5.52	8.19	9.46	10.51
133	7.89	10.40	7.08	5.86	5.18	5.22	5.63	8.24	9.46	10.56
134	7.73	10.66	7.35	5.86	5.23	5.23	5.89	8.29	9.41	10.67
135	7.73	10.77	7.51	5.86	5.18	5.49	6.10	8.35	9.51	10.67
136	7.68	10.87	7.46	5.86	5.18	5.44	6.15	8.45	9.67	10.67
137	7.68	10.82	7.45	6.13	5.18	5.66	6.15	8.60	9.88	10.67
138	7.68	10.93	7.45	6.23	5.18	5.87	6.15	8.66	10.09	10.67
139	7.73	10.93	7.40	6.45	5.18	6.02	6.20	8.76	10.24	10.72
140	7.73	10.93	7.24	6.45	5.35	6.02	6.20	8.86	10.29	10.77
141	7.73	10.93	7.24	6.55	5.46	6.34	6.31	8.86	10.40	10.82
142	7.99	10.93	7.19	6.55	5.78	6.40	6.41	8.96	10.61	10.72
143	8.56	10.93	7.14	6.55	5.78	6.45	6.52	8.91	10.81	10.72
144	9.03	10.88	7.14	6.66	6.00	6.40	6.68	8.91	11.02	10.72
145	9.65	10.88	7.14	6.61	6.11	6.56	6.78	8.91	11.02	10.72
146	9.87	10.88	7.45	6.66	6.27	6.77	6.89	9.07	10.97	10.72
147	9.93	10.88	7.72	6.76	6.33	6.83	7.10	9.02	10.97	10.78
148	10.03	10.88	8.19	6.97	6.60	6.98	7.15	9.02	11.02	10.98
149	10.33	10.88	8.40	7.08	6.65	7.20	7.36	9.02	10.87	11.03
150	10.65	10.88	8.77	7.40	6.76	7.30	7.47	9.02	10.80	11.09
151	11.02	10.88	9.14	7.45	6.93	7.30	7.83	9.07	10.19	11.09
152	11.12	10.88	9.40	7.50	6.98	7.30	7.78	8.97	10.03	11.08
153	11.13	10.88	9.57	7.61	7.03	7.30	7.78	8.96	10.03	10.82
154	11.23	10.88	9.88	7.71	6.98	7.30	7.78	8.81	10.03	10.54
155	11.39	10.88	10.04	7.66	6.98	7.30	7.78	8.81	10.03	10.08
156	11.60	10.88	10.10	7.71	7.20	7.30	7.78	8.76	10.09	9.88
157	11.70	10.88	10.10	7.82	7.31	7.30	7.78	8.71	10.34	9.94
158	11.65	10.88	10.15	7.82	7.25	7.30	7.78	8.71	10.60	10.15
159	11.75	10.88	10.15	7.82	7.25	7.30	7.78	8.65	10.55	10.67
160	11.70	10.88	10.15	7.82	7.25	7.30	7.78	8.65	10.55	10.83
161	11.75	10.88	10.15	7.82	7.25	7.30	7.78	8.65	10.55	10.94
162	11.65	10.88	10.15	7.92	7.25	7.30	7.78	8.65	10.29	11.30
163	11.50	10.88	10.15	7.87	7.31	7.30	7.78	8.66	10.13	11.36
164	11.19	10.93	10.15	7.92	7.31	7.30	7.78	8.71	10.03	11.77
165	10.87	10.77	10.15	7.98	7.41	7.36	7.78	8.81	10.03	11.98

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CANDELA TABULATION - (Cont.)

166	10.76	10.67	10.15	7.98	7.37	7.41	7.83	9.02	9.98	12.30
167	10.81	10.87	10.83	7.98	7.75	7.62	7.99	9.29	10.21	12.62
168	11.39	11.84	11.55	8.14	8.02	7.73	8.36	10.11	11.39	13.35
169	11.59	12.18	12.15	8.29	8.07	7.84	8.62	10.78	12.02	14.14
170	11.86	12.50	12.47	8.61	8.34	8.16	9.09	11.14	12.38	14.66
171	12.37	12.56	12.68	8.72	8.62	8.42	9.30	11.30	12.22	14.92
172	12.59	12.71	12.90	8.98	8.78	8.42	9.30	11.30	12.02	15.03
173	12.95	12.66	12.85	9.09	8.61	8.42	9.20	11.30	12.02	15.03
174	13.32	12.66	12.90	9.19	8.56	8.53	9.20	11.30	12.02	15.08
175	13.53	12.87	13.16	9.25	8.89	8.69	9.20	11.35	12.02	14.97
176	13.48	12.87	13.48	9.30	9.00	8.85	9.09	11.19	12.06	14.96
177	13.48	12.87	13.53	9.30	9.00	8.85	9.03	11.14	11.96	14.65
178	13.48	12.92	13.48	9.30	9.05	8.85	8.88	11.14	11.70	14.34
179	13.48	12.98	13.43	9.30	9.05	8.85	8.83	11.20	11.70	13.97
180	13.48	13.48	13.48	13.48	13.48	13.48	13.48	13.48	13.48	13.48

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	5000.82	5000.82	5000.82	5000.82	5000.82	5000.82	5000.82
1	4995.03	4997.92	4995.42	5004.85	5000.20	4998.02	4996.92
2	4987.72	4994.60	4998.93	5003.16	5000.20	4996.31	4995.75
3	4985.87	4996.19	4994.32	5000.34	4994.06	4997.40	4992.43
4	4979.36	4991.66	4983.75	4995.72	4992.78	4994.12	4989.55
5	4969.25	4984.60	4974.24	4985.99	4985.47	4990.18	4984.49
6	4962.80	4970.07	4968.78	4971.60	4976.36	4979.06	4976.07
7	4954.26	4954.78	4961.16	4957.12	4972.26	4972.76	4968.08
8	4944.47	4940.38	4952.01	4935.26	4968.25	4962.71	4959.89
9	4936.80	4932.64	4945.55	4917.95	4955.08	4951.79	4948.07
10	4926.03	4918.66	4936.15	4903.48	4939.20	4939.48	4936.74
11	4904.13	4901.77	4934.81	4886.81	4931.14	4927.16	4920.49
12	4887.83	4880.24	4925.43	4870.31	4918.53	4904.02	4902.69
13	4874.19	4862.17	4913.13	4855.44	4903.32	4883.37	4901.29
14	4850.15	4845.02	4890.83	4837.51	4880.02	4870.72	4884.64
15	4828.13	4822.04	4874.90	4812.44	4853.89	4845.73	4862.83
16	4803.32	4803.94	4849.49	4789.81	4838.27	4832.13	4839.95
17	4778.84	4777.67	4825.89	4763.80	4820.12	4800.38	4807.27
18	4754.06	4751.36	4802.46	4737.45	4798.23	4775.70	4795.43
19	4740.37	4721.56	4767.77	4710.16	4768.58	4759.31	4758.63
20	4714.54	4698.45	4735.55	4681.14	4745.67	4728.38	4736.95
21	4683.38	4664.04	4701.92	4653.09	4707.74	4691.52	4706.77
22	4638.91	4638.90	4671.95	4607.31	4676.56	4654.75	4653.97
23	4613.44	4600.94	4645.25	4557.43	4644.98	4625.74	4627.27
24	4579.08	4566.10	4612.88	4517.80	4616.77	4597.40	4599.77
25	4533.87	4530.46	4579.70	4492.96	4571.56	4562.68	4554.83
26	4506.04	4493.05	4545.83	4452.86	4525.06	4520.41	4525.54
27	4464.89	4448.84	4506.90	4409.11	4486.03	4481.93	4486.34
28	4421.50	4397.47	4468.27	4371.86	4440.30	4433.58	4450.04
29	4380.99	4350.81	4419.60	4328.81	4403.93	4390.19	4415.50
30	4334.43	4300.09	4377.68	4280.68	4354.61	4348.18	4364.27
31	4301.26	4258.82	4333.28	4233.02	4304.70	4304.35	4329.44
32	4247.18	4216.02	4284.32	4172.97	4264.01	4254.42	4271.76
33	4198.51	4174.62	4231.87	4131.44	4206.69	4202.46	4224.58
34	4152.40	4121.91	4179.12	4071.89	4159.56	4152.86	4181.05
35	4091.67	4064.00	4127.14	4022.77	4103.85	4107.26	4137.64
36	4035.98	4007.21	4073.67	3971.40	4053.86	4047.31	4072.54

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CANDELA TABULATION - (Cont.)

37	3992.58	3950.08	4015.71	3919.82	4004.68	3997.69	4028.15
38	3932.14	3896.84	3967.22	3862.42	3939.29	3940.38	3967.20
39	3867.31	3837.93	3907.45	3806.10	3868.38	3881.59	3908.58
40	3805.45	3775.45	3851.91	3742.12	3818.32	3810.15	3852.21
41	3747.34	3701.79	3788.02	3685.11	3755.45	3755.92	3791.17
42	3671.23	3640.99	3715.25	3618.86	3682.78	3697.16	3719.95
43	3606.62	3575.04	3651.94	3555.26	3625.15	3635.88	3659.74
44	3541.63	3509.22	3577.46	3489.40	3547.68	3571.48	3594.99
45	3462.00	3430.66	3505.30	3413.19	3485.97	3504.36	3529.81
46	3399.74	3362.46	3427.54	3346.21	3407.60	3431.60	3452.94
47	3325.65	3290.48	3345.73	3265.80	3336.88	3356.11	3369.43
48	3239.97	3204.19	3271.62	3195.06	3270.56	3279.03	3296.01
49	3154.29	3117.90	3192.16	3112.55	3186.49	3207.07	3202.15
50	3068.65	3031.80	3113.49	3037.93	3099.61	3119.33	3110.79
51	2985.45	2960.43	3029.02	2958.47	3029.53	3027.42	3026.49
52	2900.32	2876.43	2938.18	2872.38	2942.73	2936.92	2932.80
53	2821.41	2784.06	2845.91	2791.00	2858.21	2849.44	2850.98
54	2729.74	2695.58	2752.55	2704.52	2776.63	2757.89	2775.24
55	2637.66	2603.94	2660.92	2611.59	2676.65	2663.66	2683.97
56	2543.90	2521.34	2559.35	2518.47	2586.61	2570.55	2601.74
57	2446.28	2421.82	2425.41	2428.56	2489.98	2480.53	2518.97
58	2343.98	2327.15	2234.85	2332.66	2384.71	2390.03	2419.48
59	2236.90	2211.45	2000.63	2213.36	2284.89	2289.94	2312.64
60	2135.94	2063.26	1806.80	2061.83	2182.74	2203.95	2214.72
61	2030.19	1844.97	1593.76	1854.97	2072.98	2103.05	2107.36
62	1925.59	1620.41	1380.10	1645.42	1969.18	1997.21	2011.59
63	1824.42	1419.80	1166.44	1435.85	1863.27	1896.07	1916.67
64	1724.61	1210.63	1073.70	1226.27	1760.14	1786.58	1820.86
65	1624.55	1027.82	1008.15	1038.10	1646.43	1692.22	1717.02
66	1526.01	933.07	936.16	938.70	1532.65	1588.80	1605.90
67	1405.23	867.21	852.23	870.62	1418.87	1485.37	1494.56
68	1243.09	796.25	763.81	802.52	1249.37	1381.95	1383.21
69	1046.17	717.96	681.76	716.60	1063.83	1268.44	1283.38
70	869.84	636.39	597.85	632.56	893.49	1169.55	1188.25
71	700.01	560.70	526.63	552.84	709.29	1069.43	1090.74
72	585.91	477.69	444.91	481.52	591.88	970.37	981.63
73	514.01	411.79	299.89	421.80	525.73	872.15	884.33
74	449.14	314.56	122.83	320.72	458.42	769.35	792.46
75	376.71	159.90	83.44	182.32	383.81	676.39	698.28
76	312.79	78.69	72.69	83.34	320.22	582.29	614.13
77	251.96	67.87	64.95	69.44	259.61	498.33	526.37
78	198.54	60.16	58.68	60.98	199.50	416.74	449.06
79	91.12	53.72	53.18	54.29	104.21	326.67	369.58
80	57.56	48.54	49.62	48.99	59.32	238.67	295.50
81	48.96	44.01	43.87	44.92	50.12	159.20	230.06
82	42.10	37.73	37.43	38.94	42.74	121.23	177.52
83	36.04	31.25	31.56	32.37	37.04	85.62	131.41
84	29.18	25.99	26.79	26.62	29.67	55.68	93.52
85	22.28	20.38	19.60	20.99	22.98	31.71	63.80
86	16.83	12.78	11.55	13.34	17.72	23.60	41.22
87	9.38	4.83	3.63	5.41	10.43	15.68	25.39
88	3.08	1.04	1.09	1.58	3.55	9.60	15.48
89	1.72	0.53	0.87	1.07	2.06	4.82	9.30
90	0.95	0.53	0.71	0.76	1.18	2.87	4.95
91	0.95	0.48	0.66	0.75	1.05	2.75	4.81
92	0.96	0.53	0.49	0.64	1.10	2.70	4.65

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CANDELA TABULATION - (Cont.)

93	1.16	0.58	0.49	0.59	1.00	2.69	4.65
94	1.16	0.53	0.49	0.59	1.00	2.69	4.70
95	1.27	0.69	0.49	0.59	1.00	2.85	4.70
96	1.43	0.69	0.49	0.59	1.05	3.10	4.80
97	1.48	0.79	0.49	0.74	1.05	3.36	4.96
98	1.69	0.85	0.49	0.85	1.31	3.47	5.22
99	1.80	0.90	0.60	0.85	1.52	3.83	5.74
100	2.01	1.01	0.65	0.85	1.63	4.04	5.90
101	2.17	1.11	0.71	0.91	1.78	4.45	6.06
102	2.33	1.27	0.76	1.01	2.05	4.66	6.48
103	2.59	1.38	0.92	1.12	2.36	4.87	6.58
104	2.75	1.59	1.03	1.43	2.47	5.12	6.68
105	2.96	1.80	1.25	1.60	2.57	5.38	6.69
106	3.13	1.91	1.47	1.76	2.78	5.49	6.69
107	3.44	2.22	1.63	1.81	3.09	5.75	6.69
108	3.54	2.33	1.74	2.23	3.26	5.91	6.69
109	3.60	2.59	2.02	2.40	3.41	6.27	6.69
110	3.70	2.80	2.02	2.61	3.47	6.42	6.69
111	3.76	2.86	2.40	2.77	3.63	6.53	6.69
112	3.97	3.12	2.56	2.93	3.73	6.58	6.69
113	4.12	3.38	2.56	3.20	4.05	6.74	6.69
114	4.44	3.38	2.77	3.35	4.20	6.69	6.69
115	4.66	3.49	2.89	3.36	4.36	6.74	6.69
116	4.87	3.70	3.00	3.41	4.78	6.12	6.69
117	5.18	3.86	3.27	3.62	4.83	5.61	6.69
118	5.24	3.81	3.38	3.62	5.15	5.80	6.69
119	5.56	3.91	3.49	3.78	5.41	6.76	6.48
120	5.82	4.07	3.65	4.05	5.62	7.40	6.48
121	5.82	4.18	3.87	4.16	5.83	7.57	6.63
122	5.87	4.44	4.19	4.31	5.94	7.52	7.40
123	5.92	4.44	4.25	4.48	5.99	7.77	7.84
124	6.13	4.60	4.36	4.84	6.09	8.73	7.79
125	6.14	4.76	4.42	5.06	6.15	9.37	7.78
126	6.24	5.02	4.63	5.11	6.15	10.03	7.78
127	6.45	5.13	4.80	5.17	6.15	10.16	7.73
128	6.56	5.23	5.01	5.32	6.20	10.41	7.73
129	6.66	5.23	5.02	5.33	6.25	10.52	7.73
130	6.77	5.39	5.18	5.44	6.36	10.57	7.73
131	6.98	5.44	5.13	5.38	6.51	10.62	7.83
132	6.98	5.60	5.13	5.38	6.57	10.68	7.94
133	6.98	5.55	5.13	5.38	6.57	10.68	7.89
134	6.98	5.60	5.13	5.38	6.62	10.78	7.73
135	6.98	5.76	5.13	5.38	6.67	10.78	7.73
136	6.98	5.87	5.13	5.44	6.67	10.93	7.68
137	6.98	5.97	5.13	5.49	6.67	10.88	7.68
138	6.98	6.19	5.13	5.49	6.67	10.88	7.68
139	7.03	6.50	5.13	5.81	6.67	10.93	7.73
140	7.09	6.50	5.18	5.86	6.73	10.93	7.73
141	7.25	6.82	5.18	5.86	6.73	10.93	7.73
142	7.52	6.87	5.29	5.86	6.73	10.93	7.99
143	7.78	7.03	5.45	5.91	6.73	10.99	8.56
144	8.10	7.03	5.56	5.92	6.83	11.04	9.03
145	8.57	7.29	5.67	5.97	7.09	11.04	9.65
146	9.05	7.35	5.72	6.07	7.46	11.04	9.87
147	9.69	7.45	5.89	6.13	7.67	11.04	9.93
148	10.21	7.66	5.84	6.23	7.83	11.04	10.03

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CANDELA TABULATION - (Cont.)

149	10.79	7.71	5.94	6.39	8.08	11.04	10.33
150	11.26	7.87	5.94	6.50	8.55	11.04	10.65
151	11.47	8.14	6.05	6.61	8.83	11.04	11.02
152	11.58	8.08	6.00	6.71	9.13	11.04	11.12
153	11.53	8.14	6.00	6.77	9.25	11.04	11.13
154	11.51	8.35	6.00	6.77	9.62	11.04	11.23
155	11.20	8.45	6.05	6.77	9.77	11.04	11.39
156	11.00	8.61	6.11	6.77	9.88	11.04	11.60
157	10.89	8.83	6.16	7.04	9.98	11.04	11.70
158	10.89	8.98	6.27	6.98	9.93	11.04	11.65
159	10.89	9.10	6.22	6.98	9.93	11.04	11.75
160	10.89	9.36	6.27	7.03	10.04	11.04	11.70
161	10.89	9.51	6.27	7.14	9.99	11.09	11.75
162	10.89	9.72	6.48	7.30	10.04	11.14	11.65
163	10.89	9.99	6.81	7.56	10.04	11.30	11.50
164	10.84	10.14	6.92	7.57	10.09	11.25	11.19
165	10.79	10.09	6.98	7.57	10.14	11.25	10.87
166	10.74	10.15	6.93	7.67	10.09	11.04	10.76
167	11.12	10.58	7.19	7.67	10.30	10.99	10.81
168	12.27	11.28	7.47	7.89	10.72	11.35	11.39
169	12.69	12.01	7.63	8.10	11.03	11.55	11.59
170	12.64	12.42	7.63	8.26	11.24	11.56	11.86
171	12.53	12.95	7.74	8.57	11.40	11.66	12.37
172	12.32	13.21	7.74	8.63	11.56	11.61	12.59
173	12.32	13.27	7.80	8.74	11.61	11.61	12.95
174	12.27	13.42	7.80	8.74	11.67	11.61	13.32
175	12.53	13.47	8.17	8.95	11.77	11.91	13.53
176	12.48	13.42	8.77	9.22	11.98	11.87	13.48
177	12.47	13.31	8.88	9.32	11.93	11.87	13.48
178	12.37	13.05	8.89	9.27	11.93	11.92	13.48
179	12.37	13.05	9.10	9.33	11.83	11.87	13.48
180	13.48	13.48	13.48	13.48	13.48	13.48	13.48

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1843.41	N.A.	13.60
0-30	3942.11	N.A.	29.20
0-40	6505.9	N.A.	48.10
0-60	11524.61	N.A.	85.20
0-80	13443.39	N.A.	99.40
0-90	13488.04	N.A.	99.70
10-90	13013.62	N.A.	96.20
20-40	4662.49	N.A.	34.50
20-50	7335.66	N.A.	54.20
40-70	6463.26	N.A.	47.80
60-80	1918.78	N.A.	14.20
70-80	474.24	N.A.	3.50
80-90	44.65	N.A.	0.30
90-110	5.81	N.A.	0.00
90-120	10.45	N.A.	0.10
90-130	16.15	N.A.	0.10
90-150	26.95	N.A.	0.20
90-180	34.91	N.A.	0.30
110-180	29.10	N.A.	0.20
0-180	13522.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	474.42
10-20	1368.99
20-30	2098.71
30-40	2563.78
40-50	2673.17
50-60	2345.55
60-70	1444.54
70-80	474.24
80-90	44.65
90-100	2.25
100-110	3.56
110-120	4.65
120-130	5.69
130-140	5.70
140-150	5.11
150-160	4.18
160-170	2.71
170-180	1.06

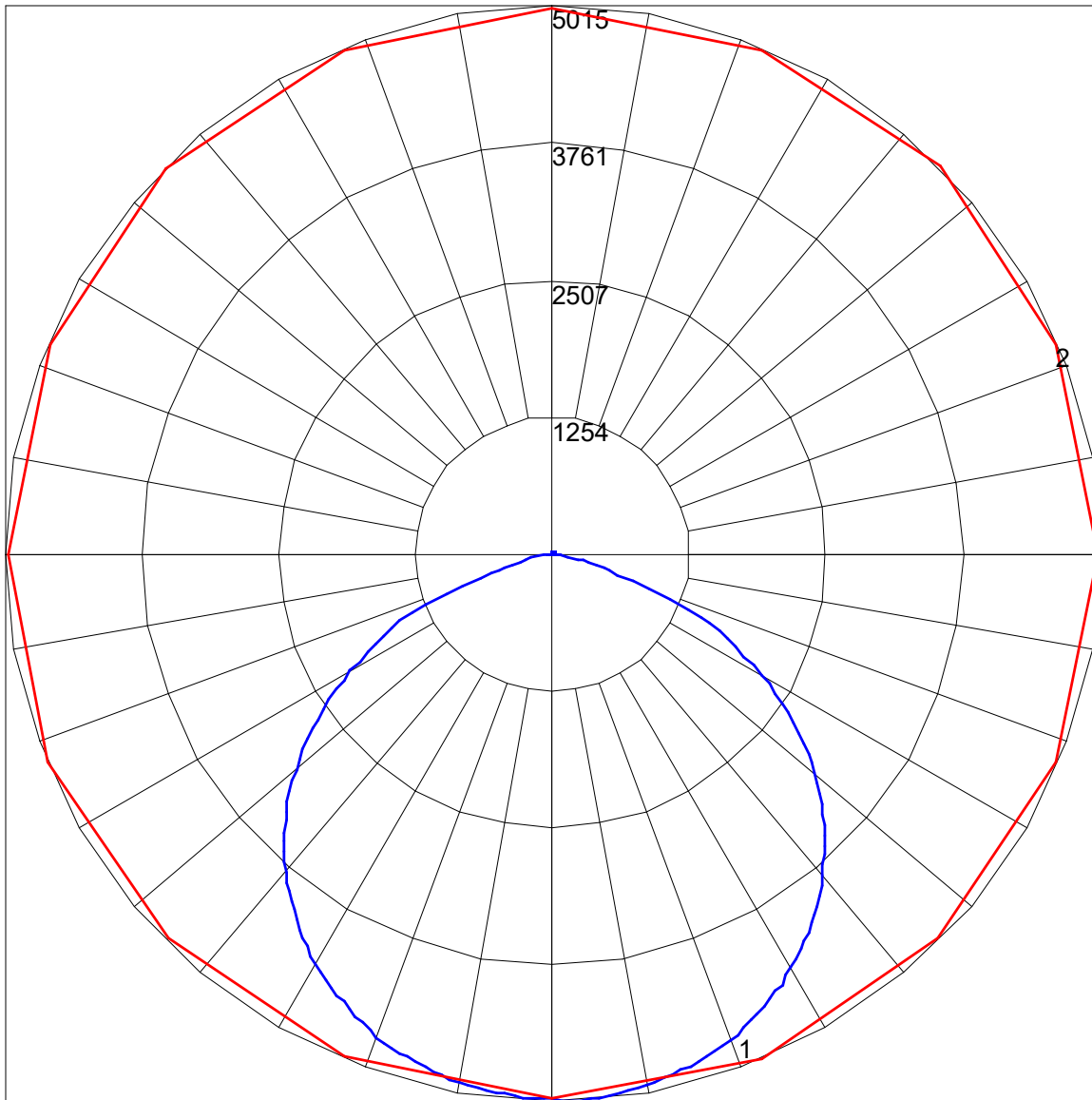
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS6004HTVHOWT50120-277V.IES

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 5014.76 Located At Horizontal Angle = 45, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)