



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZX-EX-D3-150W-5000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] HZX-EX-D3-150W-5000K
 [TESTLAB] EVERFINE
 [TESTDATE] 27 February 2025
 [ISSUEDATE] 2025-02-27 20:44:55
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-3000H_V1 SYSTEM
 [MANUFAC] BELUCE CANADA INC.
 [LUMINAIRE] HZX-EX-D3-150W-5000K
 [LUMCAT] HZX-EX-D3-150W-5000K
 [LAMP] 23074 LUMENS
 [_SEARCH_SOURCETYPE] LED

CHARACTERISTICS

Lumens Per Lamp	23074 (1 lamp)
Total Lamp Lumens	23074
Luminaire Lumens	23074
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	148.51
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.30 m
Luminous Width (90-270)	0.18 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	152550	158584	154954
55	140373	142312	138436
65	117627	110597	105265
75	69785	59218	46918
85	7923	9177	9334

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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	8848.400	8848.400	8848.400	8848.400	8848.400	8848.400	8848.400	8848.400	8848.400	8848.400
1	8846.300	8847.000	8849.200	8851.300	8849.900	8849.200	8849.100	8849.200	8847.700	8846.300
2	8842.700	8843.300	8847.000	8850.600	8847.700	8847.100	8847.700	8846.300	8843.300	8842.000
3	8836.200	8838.300	8842.700	8849.100	8844.100	8844.200	8844.000	8840.500	8835.900	8833.300
4	8826.700	8831.000	8838.300	8845.400	8839.700	8840.500	8838.900	8831.800	8826.500	8821.800
5	8814.400	8819.200	8831.200	8840.300	8833.000	8833.300	8830.200	8820.100	8815.000	8807.300
6	8799.900	8806.300	8821.000	8832.300	8824.400	8823.900	8817.900	8807.200	8801.800	8791.300
7	8784.600	8791.000	8807.800	8822.000	8812.000	8812.300	8802.600	8792.700	8785.800	8773.200
8	8765.200	8774.800	8791.900	8809.100	8796.500	8795.700	8787.400	8774.600	8765.900	8751.400
9	8742.400	8755.400	8773.800	8793.800	8778.500	8778.000	8769.700	8754.200	8743.000	8727.200
10	8717.700	8732.200	8753.600	8774.600	8756.900	8757.000	8748.100	8730.000	8717.600	8699.700
11	8692.500	8705.800	8730.400	8753.800	8735.700	8733.400	8723.300	8704.900	8689.000	8670.900
12	8662.900	8678.500	8704.700	8731.100	8710.800	8707.200	8695.500	8676.400	8658.000	8638.100
13	8630.700	8649.100	8674.900	8704.900	8683.100	8678.600	8665.200	8643.300	8625.100	8602.800
14	8595.300	8615.900	8643.600	8675.600	8651.900	8648.400	8632.400	8608.700	8589.400	8564.800
15	8555.800	8579.300	8610.300	8643.000	8620.100	8614.400	8597.500	8571.900	8552.100	8528.700
16	8519.600	8541.600	8575.400	8608.900	8584.000	8576.500	8559.200	8534.400	8513.900	8488.000
17	8469.200	8501.900	8539.100	8571.400	8544.400	8537.000	8521.800	8493.100	8470.100	8443.600
18	8407.300	8454.900	8496.900	8532.600	8501.900	8494.600	8477.300	8448.100	8423.500	8395.600
19	8339.200	8395.800	8451.300	8487.000	8458.500	8450.400	8430.900	8400.400	8374.500	8344.700
20	8263.000	8331.200	8402.600	8443.300	8411.400	8402.800	8380.400	8349.300	8322.700	8293.700
21	8184.900	8256.900	8351.700	8395.000	8361.600	8352.400	8328.400	8294.900	8263.100	8238.700
22	8112.100	8176.800	8299.900	8345.100	8310.100	8300.800	8273.700	8238.700	8170.300	8175.700
23	8040.100	8100.300	8244.500	8291.700	8254.900	8245.800	8217.100	8180.300	8063.200	8084.700
24	7973.100	8022.200	8180.100	8236.200	8195.900	8185.600	8157.900	8089.600	7959.900	7977.100
25	7900.700	7950.500	8105.600	8178.900	8135.900	8121.500	8095.000	7981.100	7880.500	7868.100
26	7815.000	7881.800	8029.700	8116.900	8071.800	8058.100	8029.500	7871.200	7814.200	7779.500
27	7717.200	7805.100	7946.300	8049.800	8006.400	7992.400	7960.500	7782.400	7747.700	7709.700
28	7610.900	7715.100	7856.500	7982.900	7939.400	7921.700	7886.900	7710.800	7675.900	7636.300
29	7513.200	7613.300	7768.300	7913.600	7867.900	7848.300	7810.900	7636.400	7586.000	7560.000
30	7428.400	7504.500	7680.800	7840.700	7794.200	7775.700	7734.000	7559.600	7460.500	7477.900
31	7345.300	7404.000	7589.700	7765.700	7715.600	7696.600	7640.200	7480.100	7334.600	7364.600
32	7259.300	7313.000	7499.900	7685.200	7635.200	7612.900	7526.400	7368.100	7230.800	7234.600
33	7159.500	7225.500	7413.800	7601.600	7552.000	7526.400	7409.300	7236.000	7148.100	7110.700
34	7043.200	7136.600	7321.300	7515.000	7464.600	7438.500	7286.900	7109.200	7060.400	7015.100
35	6923.400	7036.400	7218.400	7426.600	7371.100	7346.300	7176.700	7008.900	6971.700	6924.700
36	6819.500	6915.700	7105.300	7332.900	7240.200	7251.300	7082.400	6916.800	6861.300	6831.300
37	6727.400	6790.900	6984.300	7235.700	7058.400	7136.200	6987.900	6819.600	6725.100	6731.300
38	6631.200	6679.000	6862.700	7132.800	6875.000	6975.300	6886.000	6719.500	6595.800	6604.900
39	6523.900	6577.800	6746.300	6999.700	6747.300	6777.600	6782.000	6597.400	6490.000	6466.200
40	6385.700	6476.400	6635.800	6810.900	6645.300	6621.100	6672.200	6457.700	6388.100	6337.200
41	6249.000	6367.700	6525.300	6622.300	6540.200	6508.100	6534.800	6320.900	6285.400	6229.900
42	6134.700	6234.200	6412.000	6484.000	6418.100	6398.000	6390.200	6209.200	6159.200	6120.200
43	6029.400	6089.400	6295.400	6366.200	6241.600	6283.100	6246.000	6097.900	6004.400	6007.100
44	5921.300	5960.400	6162.100	6243.200	6028.900	6140.000	6108.400	5983.200	5864.300	5870.700
45	5787.600	5848.500	6016.500	6108.300	5878.800	5935.700	5956.700	5846.400	5750.300	5714.200
46	5631.400	5730.800	5874.700	5927.700	5760.400	5739.600	5762.900	5688.200	5634.600	5573.600
47	5496.900	5604.100	5730.100	5701.100	5641.400	5600.900	5576.000	5543.300	5499.600	5451.000
48	5374.400	5446.800	5561.800	5525.700	5493.500	5476.100	5425.200	5416.300	5332.600	5324.900
49	5255.200	5294.100	5362.000	5393.000	5262.900	5345.700	5272.700	5287.000	5187.300	5182.600
50	5104.200	5164.000	5182.600	5257.300	5072.700	5162.900	5115.600	5142.200	5058.700	5014.100
51	4933.800	5037.100	5024.100	5112.600	4951.400	4929.900	4966.500	4970.800	4928.900	4862.500
52	4798.900	4898.200	4867.900	4909.000	4800.600	4759.700	4782.200	4815.100	4758.300	4729.900
53	4669.500	4740.300	4725.700	4709.100	4649.100	4607.700	4598.000	4676.200	4588.100	4586.100

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CANDELA TABULATION - (Cont.)

54	4508.700	4582.500	4574.800	4560.400	4410.200	4444.500	4416.200	4532.300	4449.200	4399.600
55	4319.900	4442.400	4379.600	4414.900	4260.300	4204.300	4249.400	4343.400	4300.900	4224.300
56	4173.000	4294.000	4161.600	4244.400	4115.900	3993.500	4081.500	4166.200	4104.800	4078.600
57	4034.900	4098.100	3980.100	3990.900	3918.100	3850.300	3915.800	4015.000	3939.300	3917.900
58	3840.200	3931.400	3824.100	3802.500	3681.600	3693.500	3697.800	3850.600	3793.300	3721.100
59	3668.100	3782.700	3679.200	3652.200	3532.800	3447.900	3504.000	3650.400	3587.200	3560.800
60	3522.500	3599.200	3491.100	3476.800	3357.300	3269.700	3330.600	3485.500	3422.700	3399.300
61	3327.100	3411.800	3256.200	3238.300	3106.800	3119.100	3162.100	3313.300	3257.200	3194.600
62	3161.600	3259.600	3080.500	3081.200	2963.300	2872.300	2955.700	3100.800	3058.800	3037.200
63	2998.400	3066.300	2932.000	2916.500	2746.700	2687.100	2753.400	2906.800	2904.400	2847.600
64	2824.400	2895.900	2750.600	2667.300	2546.100	2510.100	2569.900	2675.400	2695.400	2660.500
65	2667.200	2730.500	2507.800	2510.600	2386.900	2282.500	2389.100	2507.100	2542.600	2450.700
66	2489.400	2549.000	2350.500	2301.900	2178.300	2105.700	2177.200	2311.700	2342.500	2259.800
67	2323.900	2367.300	2185.900	2124.100	2022.800	1929.500	2002.500	2182.500	2172.800	2086.800
68	2169.200	2158.400	1997.000	1958.600	1836.300	1781.200	1803.500	1932.000	1994.700	1914.000
69	1971.300	1970.500	1807.700	1768.700	1646.500	1588.700	1630.100	1743.300	1805.600	1728.400
70	1799.500	1809.400	1604.300	1589.400	1505.800	1405.000	1443.100	1574.500	1632.700	1527.000
71	1624.500	1627.000	1441.100	1445.500	1309.100	1263.000	1282.300	1399.600	1468.100	1358.400
72	1447.700	1437.600	1263.400	1268.400	1121.100	1092.000	1115.000	1210.000	1302.000	1204.900
73	1278.700	1256.200	1111.800	1088.700	947.990	919.170	966.330	1055.200	1135.500	1045.800
74	1120.300	1099.600	957.000	943.700	792.110	766.850	828.670	904.900	976.360	879.130
75	969.080	943.400	822.340	797.040	651.530	627.770	693.520	760.960	834.620	746.860
76	821.460	787.320	693.990	648.230	521.250	485.310	561.980	622.300	697.440	606.940
77	691.280	665.740	570.790	525.870	391.210	368.180	445.970	509.170	574.920	495.300
78	563.280	531.370	450.830	403.580	289.440	268.560	330.170	398.110	462.860	381.580
79	448.820	427.510	338.080	291.250	190.350	192.050	239.890	296.650	350.890	282.410
80	342.380	323.820	255.830	207.590	107.770	115.730	169.320	227.020	255.640	214.880
81	250.200	234.210	191.880	136.010	55.574	63.278	113.590	157.840	175.810	147.700
82	183.280	161.950	128.080	75.127	52.253	52.934	69.144	104.590	112.880	98.604
83	116.640	108.080	83.936	51.184	49.557	50.013	48.328	65.778	66.203	61.808
84	66.459	68.277	52.557	48.387	46.634	47.030	45.071	45.501	38.420	43.029
85	37.049	42.854	42.913	45.323	43.648	43.791	41.568	38.654	35.088	37.837
86	32.954	36.016	39.521	42.126	40.317	39.901	37.515	35.613	33.465	34.877
87	31.276	33.160	35.712	38.457	37.191	35.287	31.947	30.837	31.044	30.186
88	29.490	29.214	30.619	33.961	26.838	23.204	21.196	21.082	23.222	19.985
89	24.319	21.980	22.267	24.021	12.481	10.529	10.465	10.873	10.962	11.042
90	10.222	9.965	10.444	10.734	10.055	10.250	10.621	11.126	11.344	11.432
91	9.929	9.656	9.161	8.557	10.572	10.805	11.205	11.726	11.948	12.043
92	10.517	10.228	9.725	9.105	11.173	11.392	11.816	12.342	12.571	12.675
93	11.136	10.850	10.302	9.691	11.790	12.034	12.459	12.996	13.218	13.338
94	11.793	11.487	10.921	10.276	12.430	12.684	13.118	13.660	13.909	14.015
95	12.484	12.147	11.568	10.926	13.091	13.358	13.818	14.340	14.608	14.721
96	13.190	12.847	12.254	11.587	13.778	14.041	14.513	15.063	15.322	15.448
97	13.915	13.567	12.980	12.271	14.467	14.776	15.252	15.801	16.054	16.201
98	14.668	14.303	13.715	12.997	15.222	15.521	15.998	16.549	16.816	16.963
99	15.453	15.059	14.452	13.743	16.006	16.282	16.774	17.335	17.617	17.755
100	16.241	15.841	15.227	14.498	16.768	17.075	17.573	18.088	18.384	18.546
101	17.053	16.641	16.032	15.293	17.561	17.872	18.362	18.913	19.190	19.358
102	17.855	17.463	16.851	16.103	18.369	18.700	19.193	19.737	20.021	20.207
103	18.699	18.289	17.677	16.934	19.225	19.546	20.032	20.572	20.882	21.053
104	19.570	19.129	18.493	17.792	20.088	20.393	20.880	21.433	21.741	21.909
105	20.430	20.003	19.355	18.624	20.926	21.268	21.744	22.279	22.599	22.784
106	21.327	20.879	20.227	19.493	21.815	22.157	22.610	23.163	23.463	23.678
107	22.195	21.763	21.124	20.393	22.714	23.039	23.509	24.044	24.374	24.579
108	23.109	22.659	22.005	21.294	23.649	23.932	24.410	24.943	25.293	25.493
109	24.042	23.568	22.924	22.193	24.543	24.868	25.334	25.857	26.192	26.399

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CANDELA TABULATION - (Cont.)

110	24.971	24.494	23.835	23.105	25.467	25.795	26.213	26.778	27.108	27.347
111	25.888	25.423	24.772	24.050	26.431	26.734	27.154	27.712	28.073	28.309
112	26.829	26.344	25.679	24.992	27.420	27.673	28.098	28.661	29.045	29.256
113	27.781	27.293	26.630	25.909	28.354	28.632	29.045	29.585	29.979	30.192
114	28.747	28.245	27.579	26.886	29.343	29.598	30.001	30.554	30.958	31.169
115	29.707	29.199	28.536	27.861	30.367	30.587	30.968	31.524	31.937	32.155
116	30.668	30.151	29.478	28.820	31.343	31.559	31.910	32.481	32.919	33.129
117	31.640	31.107	30.444	29.785	32.295	32.548	32.889	33.425	33.866	34.056
118	32.626	32.068	31.414	30.758	33.303	33.518	33.856	34.394	34.847	35.013
119	33.556	33.027	32.373	31.732	34.320	34.485	34.815	35.346	35.814	35.989
120	34.518	33.957	33.305	32.717	35.291	35.464	35.761	36.313	36.765	36.936
121	35.476	34.908	34.269	33.664	36.233	36.443	36.741	37.267	37.733	37.882
122	36.428	35.855	35.234	34.631	37.229	37.420	37.697	38.221	38.694	38.834
123	37.367	36.809	36.170	35.588	38.201	38.372	38.654	39.168	39.658	39.788
124	38.321	37.742	37.114	36.545	39.159	39.306	39.593	40.110	40.599	40.702
125	39.260	38.671	38.044	37.487	40.094	40.240	40.534	41.044	41.511	41.638
126	40.197	39.610	38.980	38.437	41.057	41.179	41.461	41.966	42.480	42.599
127	41.113	40.539	39.917	39.376	41.986	42.117	42.412	42.915	43.419	43.506
128	42.027	41.448	40.844	40.310	42.947	43.032	43.341	43.844	44.328	44.402
129	42.941	42.364	41.728	41.212	43.908	43.958	44.237	44.773	45.259	45.351
130	43.885	43.283	42.646	42.146	44.831	44.879	45.151	45.660	46.203	46.270
131	44.824	44.203	43.565	43.091	45.721	45.791	46.085	46.561	47.112	47.161
132	45.711	45.093	44.474	44.005	46.674	46.692	46.981	47.497	48.038	48.072
133	46.629	46.011	45.388	44.922	47.638	47.631	47.907	48.439	48.942	48.986
134	47.578	46.925	46.302	45.831	48.553	48.535	48.791	49.313	49.863	49.897
135	48.517	47.859	47.219	46.753	49.427	49.414	49.700	50.185	50.775	50.781
136	49.409	48.778	48.150	47.690	50.293	50.260	50.568	51.071	51.663	51.680
137	50.322	49.686	49.040	48.619	51.242	51.188	51.465	51.977	52.562	52.578
138	51.261	50.615	49.968	49.534	52.153	52.117	52.356	52.881	53.418	53.467
139	52.175	51.534	50.892	50.471	53.048	53.019	53.259	53.765	54.332	54.378
140	53.094	52.458	51.809	51.418	53.932	53.867	54.100	54.621	55.200	55.242
141	54.018	53.367	52.730	52.334	54.767	54.741	54.918	55.465	56.008	56.075
142	54.932	54.301	53.637	53.264	55.617	55.580	55.763	56.294	56.788	56.869
143	55.848	55.207	54.553	54.206	56.433	56.370	56.542	57.056	57.558	57.657
144	56.742	56.125	55.485	55.130	57.261	57.178	57.348	57.864	58.347	58.449
145	57.643	57.024	56.394	56.049	58.050	57.979	58.120	58.594	59.119	59.252
146	58.520	57.918	57.266	56.933	58.781	58.651	58.799	59.366	59.831	60.006
147	59.388	58.806	58.157	57.845	59.526	59.430	59.581	60.154	60.550	60.765
148	60.272	59.684	59.046	58.734	60.238	60.159	60.261	60.778	61.198	61.392
149	61.090	60.535	59.917	59.602	60.962	60.884	60.956	61.500	61.907	62.104
150	61.907	61.395	60.760	60.454	61.640	61.596	61.673	62.173	62.551	62.819
151	62.713	62.232	61.575	61.288	62.357	62.315	62.353	62.884	63.223	63.513
152	63.480	63.041	62.375	62.110	63.042	63.014	63.009	63.514	63.828	64.149
153	64.230	63.815	63.181	62.904	63.745	63.748	63.754	64.205	64.523	64.862
154	64.977	64.552	63.957	63.694	64.352	64.363	64.389	64.838	65.101	65.496
155	65.685	65.305	64.718	64.458	65.001	65.020	65.092	65.458	65.703	66.076
156	66.401	66.024	65.490	65.233	65.642	65.677	65.736	66.045	66.252	66.671
157	67.103	66.741	66.244	65.991	66.259	66.306	66.376	66.593	66.861	67.315
158	67.779	67.432	66.998	66.738	66.861	66.922	66.995	67.156	67.419	67.878
159	68.452	68.102	67.723	67.454	67.451	67.509	67.582	67.736	67.952	68.406
160	69.098	68.757	68.440	68.187	68.034	68.082	68.144	68.230	68.452	68.900
161	69.726	69.395	69.147	68.878	68.606	68.668	68.687	68.743	68.984	69.403
162	70.340	70.009	69.828	69.584	69.186	69.251	69.273	69.272	69.515	69.943
163	70.950	70.614	70.493	70.259	69.805	69.873	69.882	69.829	70.064	70.502
164	71.528	71.198	71.126	70.940	70.413	70.468	70.450	70.360	70.608	71.037
165	72.072	71.764	71.741	71.583	71.136	71.210	71.167	71.020	71.270	71.705

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CANDELA TABULATION - (Cont.)

166	72.621	72.299	72.314	72.227	71.846	71.980	71.876	71.715	71.925	72.368
167	73.129	72.823	72.854	72.844	72.534	72.689	72.525	72.352	72.512	73.021
168	73.601	73.340	73.360	73.445	73.183	73.341	73.128	72.956	73.113	73.598
169	74.040	73.829	73.845	74.027	73.719	73.902	73.635	73.499	73.588	74.079
170	74.450	74.290	74.302	74.542	74.436	74.566	74.334	74.211	74.270	74.754
171	74.859	74.710	74.730	74.977	74.849	74.999	74.814	74.696	74.720	75.181
172	75.217	75.124	75.155	75.370	75.347	75.465	75.359	75.224	75.230	75.649
173	75.549	75.497	75.552	75.734	75.700	75.830	75.800	75.614	75.583	75.978
174	75.836	75.834	75.908	76.028	76.078	76.200	76.195	75.990	75.959	76.296
175	76.101	76.119	76.235	76.329	76.442	76.537	76.573	76.317	76.277	76.555
176	76.312	76.323	76.490	76.580	76.782	76.855	76.880	76.627	76.594	76.819
177	76.463	76.497	76.665	76.789	76.976	77.000	77.076	76.816	76.767	76.941
178	76.577	76.632	76.809	76.910	77.089	77.069	77.166	76.915	76.812	76.949
179	76.683	76.760	76.945	77.008	77.201	77.122	77.189	76.983	76.811	76.949
180	76.770	76.770	76.770	76.770	76.770	76.770	76.770	76.770	76.770	76.770

Vert. Horizontal Angles
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	8848.400	8848.400	8848.400	8848.400	8848.400	8848.400	8848.400
1	8844.700	8841.100	8842.700	8844.000	8844.800	8846.200	8846.300
2	8837.600	8830.200	8834.700	8836.000	8839.000	8841.900	8842.700
3	8825.200	8816.500	8823.100	8825.900	8829.600	8835.300	8836.200
4	8811.900	8803.300	8810.800	8814.100	8817.300	8824.400	8826.700
5	8796.100	8786.800	8796.400	8799.100	8802.700	8809.900	8814.400
6	8778.700	8768.500	8779.600	8782.900	8784.800	8794.500	8799.900
7	8759.500	8746.000	8761.300	8763.300	8765.900	8776.400	8784.600
8	8737.800	8723.000	8739.800	8741.600	8745.500	8756.000	8765.200
9	8711.700	8696.100	8713.600	8716.800	8722.900	8731.800	8742.400
10	8684.200	8666.700	8685.000	8688.300	8697.400	8706.400	8717.700
11	8654.200	8635.500	8654.100	8658.700	8669.400	8678.700	8692.500
12	8621.600	8600.000	8621.300	8626.200	8636.400	8649.400	8662.900
13	8586.100	8560.800	8585.200	8590.000	8601.500	8617.100	8630.700
14	8548.100	8521.800	8547.100	8551.100	8565.400	8579.900	8595.300
15	8506.100	8479.400	8509.300	8511.600	8526.700	8542.700	8555.800
16	8462.100	8434.900	8465.100	8470.300	8485.200	8502.200	8519.600
17	8415.200	8385.700	8418.200	8425.900	8439.200	8461.100	8469.200
18	8365.200	8333.700	8368.500	8377.800	8390.600	8411.300	8407.300
19	8313.000	8279.600	8315.100	8325.100	8339.300	8348.700	8339.200
20	8260.300	8223.500	8263.400	8270.900	8286.600	8279.800	8263.000
21	8203.900	8164.300	8208.000	8214.100	8232.700	8202.300	8184.900
22	8144.700	8101.700	8149.500	8155.800	8176.700	8120.900	8112.100
23	8080.700	8039.800	8086.700	8095.100	8112.600	8042.000	8040.100
24	8013.500	7971.900	8022.200	8031.800	8037.000	7963.800	7973.100
25	7942.600	7900.200	7954.400	7965.300	7957.200	7890.400	7900.700
26	7870.600	7826.100	7883.600	7895.700	7873.600	7819.700	7815.000
27	7795.400	7751.400	7814.000	7821.600	7785.200	7740.900	7717.200
28	7700.900	7672.600	7741.200	7746.000	7690.500	7649.500	7610.900
29	7588.700	7591.700	7662.400	7669.000	7600.600	7544.600	7513.200
30	7474.100	7508.100	7581.600	7588.500	7507.100	7434.600	7428.400
31	7362.300	7423.000	7499.200	7504.500	7414.100	7331.200	7345.300
32	7260.800	7332.600	7408.300	7416.300	7322.000	7237.800	7259.300
33	7171.300	7237.900	7285.700	7325.600	7232.200	7149.300	7159.500
34	7077.000	7140.500	7110.400	7229.300	7135.800	7059.100	7043.200
35	6983.000	7015.100	6963.200	7119.300	7030.900	6958.400	6923.400
36	6885.200	6837.300	6836.800	6957.000	6915.200	6840.700	6819.500

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CANDELA TABULATION - (Cont.)

37	6775.200	6676.600	6737.700	6787.900	6791.800	6714.700	6727.400
38	6641.800	6541.500	6640.500	6656.600	6668.900	6596.000	6631.200
39	6501.900	6430.100	6537.600	6539.100	6545.800	6491.800	6523.900
40	6366.400	6320.700	6389.300	6431.100	6427.400	6388.900	6385.700
41	6247.700	6207.900	6183.600	6318.900	6318.400	6283.600	6249.000
42	6136.800	6069.600	6028.400	6196.400	6205.600	6156.100	6134.700
43	6017.400	5854.500	5901.900	5999.000	6069.500	6011.200	6029.400
44	5874.900	5669.800	5788.600	5804.600	5885.300	5872.900	5921.300
45	5685.600	5513.900	5670.700	5649.900	5692.700	5755.500	5787.600
46	5491.800	5373.200	5510.100	5519.800	5531.400	5637.800	5631.400
47	5319.000	5231.100	5288.400	5385.700	5387.000	5520.200	5496.900
48	5171.900	5063.500	5127.200	5244.800	5259.600	5369.100	5374.400
49	5042.500	4840.700	5003.700	5027.700	5134.900	5210.700	5255.200
50	4914.200	4672.100	4876.900	4862.400	5003.100	5074.500	5104.200
51	4744.100	4533.500	4705.100	4697.400	4809.300	4945.300	4933.800
52	4573.700	4401.400	4458.200	4565.300	4588.900	4803.000	4798.900
53	4357.200	4230.600	4292.200	4428.500	4414.800	4660.500	4669.500
54	4189.100	3981.900	4159.200	4194.300	4274.400	4493.200	4508.700
55	4046.600	3799.500	4007.100	3986.800	4138.400	4352.500	4319.900
56	3902.900	3645.300	3749.100	3838.400	3993.200	4207.800	4173.000
57	3725.800	3457.900	3576.200	3689.800	3770.800	4030.300	4034.900
58	3491.000	3211.900	3442.900	3442.100	3566.200	3844.600	3840.200
59	3309.900	3051.800	3213.300	3230.700	3408.500	3695.500	3668.100
60	3160.500	2911.100	3011.800	3082.100	3268.600	3537.900	3522.500
61	2991.600	2667.900	2877.400	2903.300	3099.400	3335.900	3327.100
62	2765.500	2510.400	2650.100	2679.000	2851.900	3151.900	3161.600
63	2563.400	2327.700	2486.300	2540.300	2676.700	2953.500	2998.400
64	2400.100	2154.400	2321.800	2333.100	2536.900	2755.300	2824.400
65	2218.900	1981.200	2154.600	2162.500	2320.700	2600.400	2667.200
66	2005.200	1793.800	1987.400	1998.200	2149.300	2417.400	2489.400
67	1833.200	1650.400	1813.700	1824.700	1978.000	2267.200	2323.900
68	1655.600	1471.000	1640.600	1675.200	1754.000	2059.700	2169.200
69	1470.600	1303.800	1499.200	1520.000	1603.200	1880.500	1971.300
70	1315.800	1170.900	1297.000	1340.600	1418.200	1706.600	1799.500
71	1147.300	998.960	1121.900	1200.700	1272.100	1541.900	1624.500
72	995.930	839.970	973.140	1036.700	1111.000	1360.400	1447.700
73	872.550	703.500	828.680	875.800	993.210	1190.800	1278.700
74	733.320	572.140	679.630	730.760	850.090	1042.600	1120.300
75	607.220	458.950	542.580	605.100	716.540	875.890	969.080
76	493.590	334.420	427.650	486.080	586.410	736.150	821.460
77	380.240	250.170	322.520	367.470	467.940	599.470	691.280
78	281.410	181.570	237.430	279.350	368.940	492.500	563.280
79	204.960	113.120	155.140	197.940	274.670	385.660	448.820
80	141.630	67.724	89.562	124.150	210.740	290.860	342.380
81	95.547	53.364	54.101	73.746	146.900	214.280	250.200
82	61.923	50.581	51.313	52.480	96.921	149.660	183.280
83	46.872	47.563	48.689	49.997	60.793	98.710	116.640
84	43.654	44.398	45.934	47.262	46.765	63.338	66.459
85	39.904	40.578	43.073	44.203	43.511	42.913	37.049
86	35.168	35.446	40.317	40.669	40.029	36.981	32.954
87	28.141	23.380	36.249	36.624	35.864	34.053	31.276
88	16.074	11.106	23.586	26.659	29.607	29.824	29.490
89	10.793	10.659	9.996	13.402	17.476	21.184	24.319
90	11.344	11.240	9.105	9.132	9.569	9.727	10.222
91	11.970	11.867	9.685	9.703	9.853	9.893	9.929
92	12.621	12.531	10.268	10.282	10.444	10.484	10.517

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CANDELA TABULATION - (Cont.)

93	13.282	13.241	10.898	10.913	11.081	11.122	11.136
94	13.972	13.932	11.557	11.570	11.738	11.776	11.793
95	14.673	14.656	12.259	12.272	12.435	12.448	12.484
96	15.426	15.424	12.976	12.977	13.152	13.171	13.190
97	16.184	16.233	13.718	13.729	13.890	13.899	13.915
98	16.959	17.050	14.497	14.512	14.656	14.644	14.668
99	17.761	17.838	15.286	15.301	15.446	15.422	15.453
100	18.592	18.672	16.106	16.110	16.259	16.230	16.241
101	19.417	19.548	16.935	16.958	17.092	17.048	17.053
102	20.256	20.454	17.789	17.827	17.921	17.868	17.855
103	21.125	21.329	18.680	18.683	18.784	18.709	18.699
104	22.007	22.208	19.570	19.574	19.665	19.577	19.570
105	22.918	23.142	20.476	20.480	20.566	20.463	20.430
106	23.799	24.096	21.385	21.390	21.462	21.350	21.327
107	24.698	25.018	22.326	22.323	22.363	22.244	22.195
108	25.635	25.943	23.289	23.260	23.292	23.163	23.109
109	26.589	26.922	24.236	24.199	24.241	24.079	24.042
110	27.536	27.907	25.184	25.161	25.178	25.006	24.971
111	28.483	28.903	26.173	26.115	26.102	25.923	25.888
112	29.450	29.869	27.172	27.097	27.066	26.880	26.829
113	30.422	30.853	28.138	28.064	28.032	27.828	27.781
114	31.409	31.861	29.133	29.043	29.001	28.795	28.747
115	32.393	32.873	30.134	30.022	29.941	29.733	29.707
116	33.332	33.831	31.149	31.024	30.914	30.714	30.668
117	34.293	34.846	32.139	32.021	31.882	31.671	31.640
118	35.301	35.837	33.134	33.003	32.838	32.630	32.626
119	36.275	36.822	34.110	33.967	33.787	33.559	33.556
120	37.210	37.783	35.102	34.954	34.736	34.513	34.518
121	38.154	38.757	36.110	35.923	35.693	35.453	35.476
122	39.128	39.751	37.080	36.895	36.642	36.399	36.428
123	40.080	40.719	38.019	37.846	37.579	37.329	37.367
124	41.016	41.631	38.980	38.818	38.520	38.258	38.321
125	41.910	42.575	39.954	39.762	39.457	39.197	39.260
126	42.852	43.525	40.916	40.721	40.376	40.126	40.197
127	43.789	44.450	41.822	41.627	41.267	41.052	41.113
128	44.702	45.357	42.768	42.554	42.181	41.936	42.027
129	45.586	46.281	43.732	43.485	43.090	42.868	42.941
130	46.490	47.180	44.666	44.414	43.998	43.789	43.885
131	47.404	48.092	45.587	45.315	44.905	44.698	44.824
132	48.288	48.966	46.503	46.199	45.801	45.595	45.711
133	49.172	49.893	47.444	47.110	46.700	46.514	46.629
134	50.058	50.757	48.365	48.019	47.618	47.435	47.578
135	50.934	51.641	49.259	48.895	48.522	48.346	48.517
136	51.808	52.515	50.185	49.796	49.386	49.243	49.409
137	52.681	53.364	51.111	50.708	50.312	50.172	50.322
138	53.558	54.263	52.042	51.629	51.233	51.116	51.261
139	54.449	55.159	52.956	52.530	52.150	52.030	52.175
140	55.333	56.019	53.874	53.439	53.056	52.949	53.094
141	56.164	56.822	54.798	54.371	53.987	53.889	54.018
142	56.924	57.623	55.731	55.287	54.939	54.825	54.932
143	57.704	58.403	56.642	56.208	55.843	55.761	55.848
144	58.490	59.178	57.558	57.092	56.739	56.650	56.742
145	59.270	59.880	58.457	57.991	57.640	57.567	57.643
146	60.026	60.607	59.358	58.876	58.554	58.483	58.520
147	60.745	61.361	60.229	59.752	59.443	59.394	59.388
148	61.397	62.007	61.073	60.588	60.300	60.268	60.272

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CANDELA TABULATION - (Cont.)

149	62.140	62.710	61.916	61.424	61.138	61.121	61.090
150	62.801	63.356	62.749	62.254	62.001	61.975	61.907
151	63.485	64.066	63.554	63.078	62.817	62.817	62.713
152	64.125	64.669	64.304	63.861	63.608	63.617	63.480
153	64.852	65.375	65.037	64.586	64.373	64.382	64.230
154	65.469	65.970	65.784	65.350	65.148	65.160	64.977
155	66.098	66.572	66.521	66.104	65.892	65.920	65.685
156	66.690	67.164	67.234	66.841	66.624	66.671	66.401
157	67.371	67.777	67.936	67.559	67.352	67.385	67.103
158	67.982	68.356	68.625	68.252	68.070	68.100	67.779
159	68.545	68.907	69.314	68.954	68.783	68.776	68.452
160	69.083	69.449	69.980	69.641	69.462	69.432	69.098
161	69.628	69.965	70.636	70.304	70.136	70.063	69.726
162	70.163	70.483	71.275	70.934	70.795	70.663	70.340
163	70.714	71.034	71.890	71.552	71.424	71.275	70.950
164	71.262	71.558	72.498	72.141	71.980	71.864	71.528
165	71.943	72.231	73.051	72.727	72.552	72.400	72.072
166	72.623	72.924	73.619	73.296	73.123	72.959	72.621
167	73.262	73.568	74.145	73.816	73.664	73.504	73.129
168	73.844	74.158	74.617	74.299	74.154	73.980	73.601
169	74.325	74.657	75.084	74.765	74.597	74.462	74.040
170	74.987	75.289	75.508	75.221	75.030	74.896	74.450
171	75.441	75.668	75.857	75.614	75.434	75.312	74.859
172	75.946	76.100	76.149	75.932	75.806	75.678	75.217
173	76.322	76.423	76.416	76.233	76.184	75.995	75.549
174	76.661	76.718	76.673	76.533	76.471	76.275	75.836
175	76.940	76.952	76.883	76.783	76.705	76.502	76.101
176	77.157	77.120	77.058	76.972	76.878	76.690	76.312
177	77.202	77.181	77.171	77.099	77.000	76.802	76.463
178	77.172	77.159	77.186	77.114	77.046	76.863	76.577
179	77.156	77.144	77.186	77.152	77.091	76.915	76.683
180	76.770	76.770	76.770	76.770	76.770	76.770	76.770

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3255.28	14.10	14.10
0-30	6938.28	30.10	30.10
0-40	11364.37	49.30	49.30
0-60	19588.08	84.90	84.90
0-80	22774.05	98.70	98.70
0-90	22839.29	99.00	99.00
10-90	22000.86	95.30	95.30
20-40	8109.09	35.10	35.10
20-50	12576.34	54.50	54.50
40-70	10600.77	45.90	45.90
60-80	3185.97	13.80	13.80
70-80	808.91	3.50	3.50
80-90	65.24	0.30	0.30
90-110	36.81	0.20	0.20
90-120	67.02	0.30	0.30
90-130	102.89	0.40	0.40
90-150	177.26	0.80	0.80
90-180	235.02	1.00	1.00
110-180	198.20	0.90	0.90
0-180	23074.31	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	838.44
10-20	2416.85
20-30	3683.00
30-40	4426.09
40-50	4467.25
50-60	3756.46
60-70	2377.06
70-80	808.91
80-90	65.24
90-100	14.44
100-110	22.37
110-120	30.21
120-130	35.86
130-140	38.05
140-150	36.33
150-160	30.24
160-170	20.27
170-180	7.24

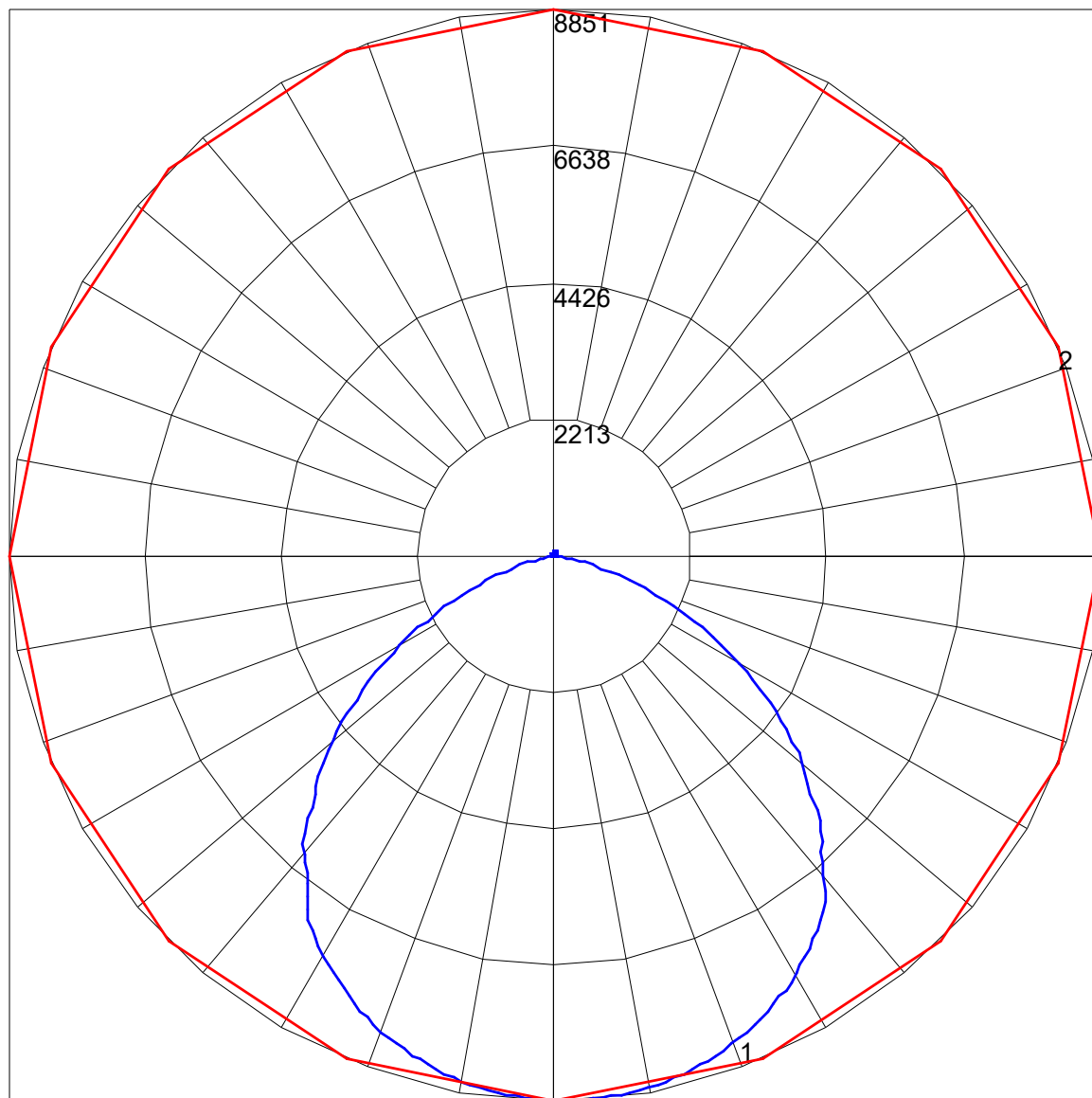
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZX-EX-D3-150W-5000K.IES

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	101	101	101	99
1	110	106	102	99	107	103	100	97	99	96	94	95	93	91	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	84	80	77	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	72	68	64	62
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	62	55	50	60	54	49	58	53	49	47
6	72	59	51	45	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	48	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	44	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 8851.3 Located At Horizontal Angle = 67.5, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)