



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZX-EX-H4-150W-6000K-D120.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] HZX-EX-H4-150W-6000K-D120  
 [TESTLAB] EVERFINE  
 [TESTDATE] 23 July 2025  
 [ISSUEDATE] 2025-07-23 16:30:27  
 [NEARFIELD]  
 [LAMPPOSITION] 0,0  
 [OTHER] EVERFINE GO-3000H\_V1 SYSTEM  
 [MANUFAC] BELUCE CANADA INC.  
 [LUMINAIRE] HZX-EX-H4-150W-6000K-D120  
 [LUMCAT] ] HZX-EX-H4-150W-6000K-D120  
 [LAMP] 24222 LUMENS  
 [\_SEARCH\_SOURCETYPE] LED

### CHARACTERISTICS

Lumens Per Lamp	24222 (1 lamp)
Total Lamp Lumens	24222
Luminaire Lumens	24221
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	165
Total Luminaire Watts	146.729
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.20 m
Luminous Width (90-270)	0.12 m
Luminous Height	0.00 m

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	57926	57386	56846
55	54676	54172	53669
65	47518	41771	36025
75	34101	22006	9910
85	13009	14665	16321

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**CANDELA TABULATION**

	<u>0</u>	<u>90</u>	<u>180</u>	<u>270</u>	<u>360</u>
0	8553.700	8553.700	8553.700	8553.700	8553.700
1	8547.200	8588.900	8554.500	8510.000	8547.200
2	8545.000	8565.700	8552.300	8519.900	8545.000
3	8542.000	8500.900	8545.100	8570.700	8542.000
4	8536.200	8449.800	8533.400	8596.100	8536.200
5	8528.200	8462.800	8517.600	8570.900	8528.200
6	8522.300	8494.500	8497.200	8528.900	8522.300
7	8506.900	8490.100	8478.200	8514.300	8506.900
8	8486.000	8434.500	8452.300	8545.000	8486.000
9	8464.600	8368.900	8428.300	8571.900	8464.600
10	8439.900	8361.800	8398.300	8537.500	8439.900
11	8412.300	8373.100	8368.500	8458.500	8412.300
12	8384.200	8337.300	8333.300	8411.400	8384.200
13	8354.300	8262.700	8296.100	8429.700	8354.300
14	8325.200	8196.500	8260.200	8480.000	8325.200
15	8290.900	8164.800	8223.000	8484.300	8290.900
16	8247.600	8143.700	8186.700	8417.200	8247.600
17	8196.600	8084.700	8147.600	8324.800	8196.600
18	8147.400	8037.500	8103.700	8273.400	8147.400
19	8100.000	8014.200	8059.000	8282.400	8100.000
20	8054.600	7984.700	8009.200	8283.300	8054.600
21	8006.700	7903.400	7953.000	8228.100	8006.700
22	7956.400	7797.400	7893.500	8135.200	7956.400
23	7903.200	7740.000	7831.000	8074.300	7903.200
24	7849.900	7721.900	7760.700	8062.000	7849.900
25	7797.600	7685.400	7679.700	8051.800	7797.600
26	7735.000	7593.800	7594.700	7985.700	7735.000
27	7659.100	7475.400	7509.800	7899.300	7659.100
28	7572.500	7400.800	7422.600	7838.300	7572.500
29	7479.000	7364.400	7334.600	7804.900	7479.000
30	7392.200	7292.200	7253.300	7739.300	7392.200
31	7300.100	7203.900	7166.300	7661.800	7300.100
32	7211.900	7142.700	7078.100	7603.400	7211.900
33	7122.000	7099.900	7002.300	7550.200	7122.000
34	7022.300	7006.800	6925.000	7474.700	7022.300
35	6922.000	6881.900	6845.500	7367.400	6922.000
36	6828.400	6804.100	6745.400	7269.000	6828.400
37	6757.800	6795.600	6613.100	7213.800	6757.800
38	6683.900	6806.600	6486.500	7181.500	6683.900
39	6576.000	6829.400	6363.600	7135.900	6576.000
40	6452.000	6815.300	6247.500	7084.300	6452.000
41	6323.300	6678.900	6146.700	7049.300	6323.300
42	6196.500	6459.500	6055.700	7054.700	6196.500
43	6075.500	6211.900	5932.800	7057.600	6075.500
44	5966.000	5949.000	5782.700	7019.800	5966.000
45	5851.600	5742.500	5624.900	6909.100	5851.600
46	5690.900	5530.000	5480.900	6738.000	5690.900
47	5554.300	5468.200	5336.500	6549.000	5554.300
48	5424.800	5460.600	5187.900	6315.700	5424.800
49	5296.700	5425.900	5117.500	6060.400	5296.700
50	5157.100	5258.300	4954.400	5798.200	5157.100
51	5022.600	5009.800	4806.000	5644.100	5022.600
52	4937.900	4763.900	4683.300	5630.300	4937.900
53	4780.700	4518.300	4513.400	5618.600	4780.700

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**CANDELA TABULATION - (Cont.)**

54	4623.700	4436.800	4406.400	5600.400	4623.700
55	4480.200	4397.700	4193.500	5422.100	4480.200
56	4338.500	4245.700	3992.100	5138.000	4338.500
57	4195.100	3985.700	3836.100	4849.200	4195.100
58	4025.900	3727.300	3689.500	4665.600	4025.900
59	3849.300	3575.800	3510.800	4626.200	3849.300
60	3677.200	3471.000	3342.500	4608.800	3677.200
61	3502.700	3276.700	3126.700	4457.000	3502.700
62	3355.000	3002.900	2993.800	4206.600	3355.000
63	3187.000	2765.600	2837.000	3990.000	3187.000
64	2996.600	2576.700	2639.200	3851.300	2996.600
65	2868.900	2175.000	2508.400	3705.700	2868.900
66	2694.200	1957.000	2338.200	3523.800	2694.200
67	2541.600	1646.000	2155.800	3280.300	2541.600
68	2352.500	1374.600	1973.400	3108.100	2352.500
69	2200.000	1075.300	1824.200	2949.500	2200.000
70	2052.200	863.200	1609.300	2707.200	2052.200
71	1886.400	656.200	1477.700	2410.100	1886.400
72	1684.200	510.940	1341.300	2180.000	1684.200
73	1527.400	367.040	1180.500	1893.100	1527.400
74	1404.800	364.290	1024.100	1605.900	1404.800
75	1260.900	366.440	887.570	1327.300	1260.900
76	1118.300	367.230	775.870	1092.500	1118.300
77	940.720	369.560	652.610	820.960	940.720
78	791.770	370.040	526.710	576.950	791.770
79	681.860	372.770	418.940	354.660	681.860
80	570.500	345.130	323.100	353.240	570.500
81	461.850	306.830	257.060	350.870	461.850
82	353.510	277.680	205.450	345.540	353.510
83	279.710	253.610	154.020	342.820	279.710
84	220.370	222.970	128.980	351.400	220.370
85	161.980	203.210	103.730	351.890	161.980
86	138.080	173.580	74.509	346.270	138.080
87	107.660	146.110	58.746	325.590	107.660
88	82.472	130.980	51.979	296.560	82.472
89	58.988	100.520	48.896	272.310	58.988
90	50.489	80.085	48.902	242.720	50.489
91	48.087	56.247	51.728	219.420	48.087
92	48.573	31.548	51.968	196.190	48.573
93	49.107	27.586	55.701	165.330	49.107
94	49.540	26.571	55.620	142.340	49.540
95	55.359	25.943	54.806	120.340	55.359
96	56.873	25.596	53.027	87.223	56.873
97	55.818	25.368	51.467	71.038	55.818
98	54.678	25.211	48.416	44.983	54.678
99	53.167	25.098	46.776	27.389	53.167
100	49.763	25.129	44.394	25.846	49.763
101	48.744	25.234	43.237	25.121	48.744
102	44.816	25.538	41.436	24.688	44.816
103	44.256	25.838	40.020	24.458	44.256
104	41.712	26.042	39.674	24.315	41.712
105	39.354	26.864	38.643	24.239	39.354
106	38.315	27.758	37.118	24.178	38.315
107	39.300	28.671	37.465	24.238	39.300
108	37.468	29.577	36.970	24.455	37.468
109	36.770	30.498	37.046	24.854	36.770

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PHOTOMETRIC FILENAME : HZX-EX-H4-150W-6000K-D120.IES

CANDELA TABULATION - (Cont.)

110	35.552	31.429	37.258	25.225	35.552
111	35.762	32.380	37.033	25.437	35.762
112	36.473	33.318	37.679	26.206	36.473
113	35.981	34.245	38.311	27.160	35.981
114	36.006	35.262	38.803	28.104	36.006
115	37.074	36.290	39.583	29.050	37.074
116	37.530	37.301	40.184	29.986	37.530
117	38.147	38.257	40.955	30.929	38.147
118	38.834	39.271	41.558	31.890	38.834
119	39.452	40.357	42.331	32.876	39.452
120	40.118	41.399	43.069	33.855	40.118
121	40.863	42.418	43.867	34.828	40.863
122	41.490	43.367	44.581	35.795	41.490
123	42.315	44.350	45.361	36.773	42.315
124	43.081	45.281	45.938	37.779	43.081
125	43.830	46.205	46.337	38.816	43.830
126	44.535	47.160	46.838	39.815	44.535
127	44.758	48.116	47.518	40.791	44.758
128	45.247	49.009	48.325	41.767	45.247
129	45.809	49.872	49.166	42.763	45.809
130	46.514	50.714	50.045	43.757	46.514
131	47.311	51.518	50.916	44.739	47.311
132	48.163	52.322	51.790	45.640	48.163
133	49.004	53.110	52.591	46.533	49.004
134	49.856	53.914	53.428	47.389	49.856
135	50.735	54.756	54.305	48.229	50.735
136	51.622	55.656	55.129	49.033	51.622
137	52.514	56.532	55.988	49.867	52.514
138	53.385	57.448	56.809	50.760	53.385
139	54.264	58.346	57.550	51.658	54.264
140	55.141	59.244	58.238	52.619	55.141
141	56.038	60.142	58.986	53.605	56.038
142	56.887	61.023	59.758	54.619	56.887
143	57.680	61.878	60.533	55.626	57.680
144	58.537	62.735	61.128	56.613	58.537
145	59.409	63.482	61.752	57.600	59.409
146	60.283	64.204	62.578	58.581	60.283
147	61.137	64.827	63.230	59.595	61.137
148	61.991	65.499	63.895	60.547	61.991
149	62.787	66.130	64.481	61.485	62.787
150	63.586	66.721	65.085	62.401	63.586
151	64.347	67.318	65.717	63.282	64.347
152	65.109	67.978	66.393	64.120	65.109
153	65.885	68.503	66.991	64.963	65.885
154	66.611	68.995	67.584	65.853	66.611
155	67.334	69.519	68.113	66.764	67.334
156	67.996	70.030	68.621	67.657	67.996
157	68.622	70.497	69.108	68.500	68.622
158	69.257	70.862	69.590	69.335	69.257
159	69.862	71.259	70.057	70.129	69.862
160	70.458	71.649	70.527	70.877	70.458
161	71.048	72.064	71.008	71.596	71.048
162	71.650	72.545	71.483	72.283	71.650
163	72.204	73.000	71.952	72.946	72.204
164	72.722	73.540	72.494	73.576	72.722
165	73.243	74.185	73.156	74.153	73.243

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CANDELA TABULATION - (Cont.)

166	73.733	74.744	73.745	74.673	73.733
167	74.181	75.311	74.320	75.158	74.181
168	74.624	75.727	74.772	75.580	74.624
169	75.068	76.139	75.275	76.020	75.068
170	75.463	76.639	75.837	76.437	75.463
171	75.808	77.084	76.206	76.882	75.808
172	76.092	77.573	76.584	77.330	76.092
173	76.416	78.027	76.955	77.766	76.416
174	76.718	78.549	77.213	78.203	76.718
175	76.987	79.057	77.500	78.650	76.987
176	77.237	79.573	77.689	79.049	77.237
177	77.381	79.776	77.811	79.397	77.381
178	77.585	79.912	77.856	79.625	77.585
179	77.743	80.032	77.901	79.791	77.743
180	77.782	77.782	77.782	77.782	77.782

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3148.45	13.00	13.00
0-30	6734.48	27.80	27.80
0-40	11134.58	46.00	46.00
0-60	19842.8	81.90	81.90
0-80	23665.59	97.70	97.70
0-90	23903.97	98.70	98.70
10-90	23093.19	95.30	95.30
20-40	7986.13	33.00	33.00
20-50	12629.2	52.10	52.10
40-70	11478.95	47.40	47.40
60-80	3822.78	15.80	15.80
70-80	1052.06	4.30	4.30
80-90	238.38	1.00	1.00
90-110	105.22	0.40	0.40
90-120	140.51	0.60	0.60
90-130	179.67	0.70	0.70
90-150	257.78	1.10	1.10
90-180	317.25	1.30	1.30
110-180	212.03	0.90	0.90
0-180	24221.22	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	810.78
10-20	2337.67
20-30	3586.03
30-40	4400.1
40-50	4643.07
50-60	4065.16
60-70	2770.73
70-80	1052.06
80-90	238.38
90-100	70.13
100-110	35.09
110-120	35.29
120-130	39.17
130-140	40.19
140-150	37.91
150-160	31.31
160-170	20.78
170-180	7.38

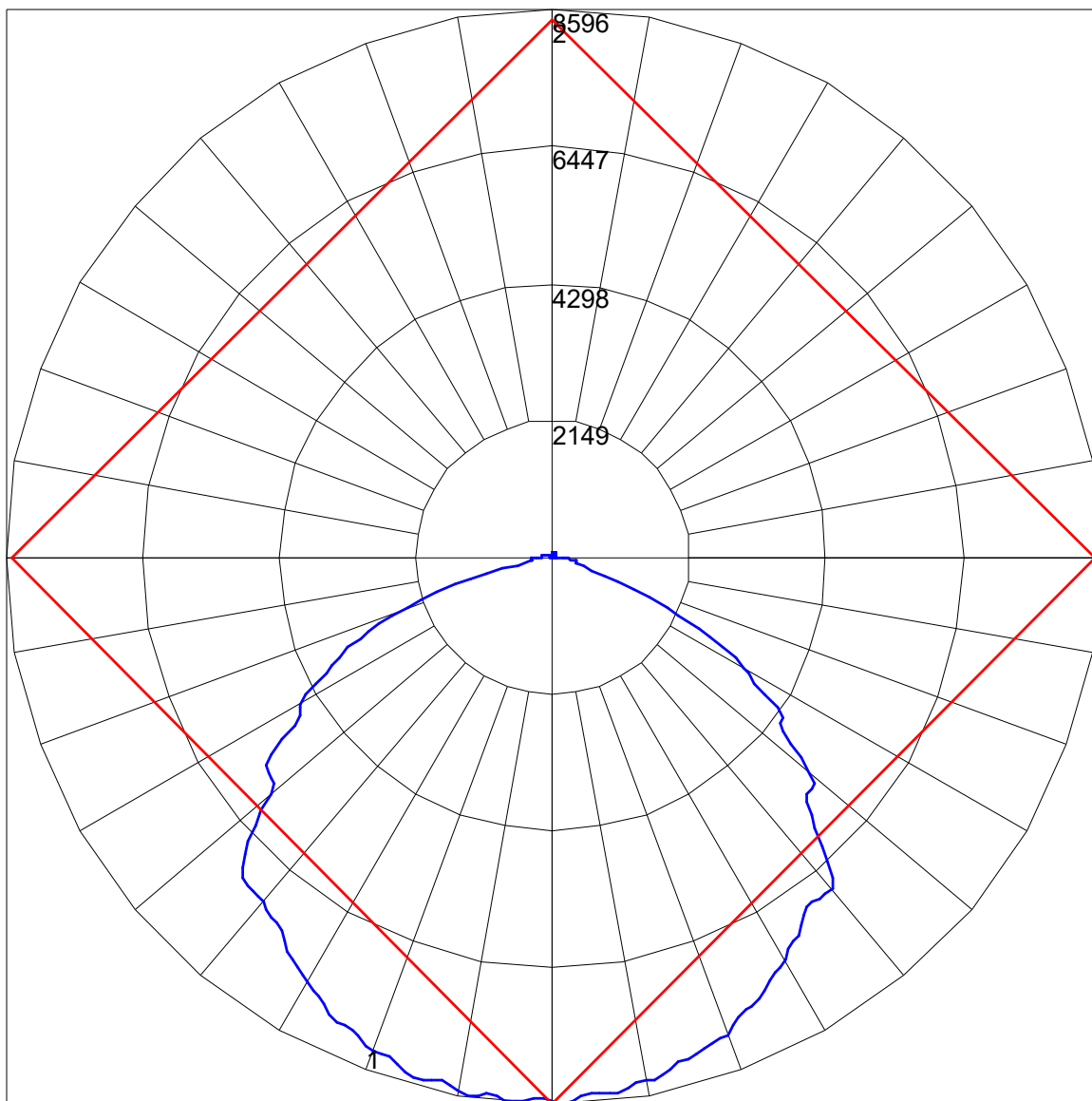
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	110	110	110	105	105	105	101	101	101	99
1	109	105	101	97	106	102	99	96	98	95	92	94	91	89	90	88	86	84
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	88	79	72	66	76	70	65	73	68	63	70	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	49	74	63	55	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	43	69	57	48	42	55	47	42	53	46	41	51	45	41	39
7	66	52	44	38	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	36	30	55	43	35	30	42	35	30	41	34	29	39	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 8596.1 Located At Horizontal Angle = 270, Vertical Angle = 4  
# 1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (4) (Through Max. Cd.)