



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZX-EX-H4-100W-4000K-D120.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] HZX-EX-H4-100W-4000K-D120
 [TESTLAB] EVERFINE
 [TESTDATE] 01 August 2025
 [ISSUEDATE] 2025-08-01 20:01:26
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-3000H_V1 SYSTEM
 [MANUFAC] BELUCE CANADA INC.
 [LUMINAIRE] HZX-EX-H4-100W-4000K-D120
 [LUMCAT]] HZX-EX-H4-100W-4000K-D120
 [LAMP] 16345 LUMENS
 [_SEARCH_SOURCETYPE] LED

CHARACTERISTICS

Lumens Per Lamp	16345 (1 lamp)
Total Lamp Lumens	16345
Luminaire Lumens	16344
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	169
Total Luminaire Watts	96.7551
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.40
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	39430	38347	37265
55	36890	35458	34027
65	31359	26621	21883
75	22297	14036	5775
85	8157	7941	7726

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CANDELA TABULATION

	<u>0</u>	<u>90</u>	<u>180</u>	<u>270</u>	<u>360</u>
0	5812.300	5812.300	5812.300	5812.300	5812.300
1	5813.000	5820.300	5807.900	5776.200	5813.000
2	5813.700	5777.300	5800.700	5761.500	5813.700
3	5812.300	5715.500	5791.200	5791.000	5812.300
4	5808.600	5694.300	5778.200	5828.800	5808.600
5	5802.000	5722.000	5759.900	5828.800	5802.000
6	5789.600	5753.400	5741.700	5791.700	5789.600
7	5775.100	5741.100	5725.000	5763.600	5775.100
8	5760.500	5685.000	5709.700	5771.500	5760.500
9	5749.500	5622.900	5690.900	5808.400	5749.500
10	5737.100	5608.400	5671.100	5822.800	5737.100
11	5724.000	5610.600	5652.200	5784.900	5724.000
12	5709.400	5601.400	5631.200	5719.500	5709.400
13	5693.500	5559.600	5609.300	5692.200	5693.500
14	5675.100	5506.900	5584.500	5721.000	5675.100
15	5655.600	5467.100	5556.000	5754.500	5655.600
16	5635.800	5440.200	5524.000	5742.600	5635.800
17	5607.400	5416.900	5488.000	5688.300	5607.400
18	5578.100	5387.600	5446.600	5630.200	5578.100
19	5542.300	5352.900	5404.700	5612.800	5542.300
20	5506.800	5311.700	5360.100	5614.200	5506.800
21	5466.600	5260.200	5310.600	5604.100	5466.600
22	5422.100	5202.100	5263.700	5561.900	5422.100
23	5378.000	5163.300	5216.800	5509.300	5378.000
24	5332.500	5139.400	5170.300	5474.500	5332.500
25	5289.800	5102.400	5124.900	5452.100	5289.800
26	5244.100	5036.400	5080.700	5426.500	5244.100
27	5199.600	4965.400	5031.700	5394.200	5199.600
28	5149.000	4903.000	4977.600	5359.900	5149.000
29	5102.000	4846.300	4929.200	5320.900	5102.000
30	5054.300	4800.100	4886.600	5264.300	5054.300
31	5007.300	4768.200	4827.300	5206.300	5007.300
32	4959.000	4736.100	4760.300	5168.100	4959.000
33	4895.400	4691.100	4685.400	5143.100	4895.400
34	4832.800	4629.000	4605.300	5108.100	4832.800
35	4768.200	4581.200	4531.000	5045.500	4768.200
36	4703.500	4543.200	4458.100	4975.400	4703.500
37	4633.300	4516.500	4391.400	4910.100	4633.300
38	4567.100	4479.100	4331.400	4849.400	4567.100
39	4501.400	4414.600	4288.700	4797.900	4501.400
40	4439.300	4397.900	4233.500	4764.700	4439.300
41	4379.900	4336.800	4133.800	4730.300	4379.900
42	4298.900	4206.700	4025.500	4683.500	4298.900
43	4189.200	4034.400	3933.000	4623.600	4189.200
44	4090.800	3899.600	3840.000	4581.400	4090.800
45	3983.100	3764.400	3742.400	4540.900	3983.100
46	3891.100	3680.500	3652.700	4506.900	3891.100
47	3805.400	3617.300	3601.900	4455.000	3805.400
48	3728.300	3520.100	3492.000	4398.100	3728.300
49	3648.800	3454.600	3393.700	4374.300	3648.800
50	3524.800	3360.200	3301.600	4304.200	3524.800
51	3422.300	3220.400	3190.700	4173.700	3422.300
52	3314.100	3095.100	3089.800	4004.100	3314.100
53	3197.700	2993.800	3031.000	3886.900	3197.700

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54	3110.800	2882.500	2932.100	3760.700	3110.800
55	3022.800	2788.200	2815.100	3685.900	3022.800
56	2891.200	2703.600	2713.000	3595.700	2891.200
57	2769.000	2573.100	2609.600	3501.900	2769.000
58	2682.500	2437.200	2505.900	3422.900	2682.500
59	2567.900	2305.700	2416.600	3329.800	2567.900
60	2454.700	2209.200	2275.800	3195.200	2454.700
61	2329.300	2097.100	2160.800	3085.300	2329.300
62	2184.600	1913.700	2039.400	2979.700	2184.600
63	2098.400	1718.800	1960.400	2853.600	2098.400
64	1975.000	1550.000	1842.200	2771.000	1975.000
65	1893.300	1321.200	1726.900	2674.200	1893.300
66	1771.100	1142.800	1601.500	2545.800	1771.100
67	1679.400	973.800	1491.400	2416.800	1679.400
68	1559.100	798.530	1367.100	2263.900	1559.100
69	1442.200	618.680	1252.300	2181.100	1442.200
70	1335.300	454.750	1145.700	1998.400	1335.300
71	1230.300	292.040	1030.000	1814.100	1230.300
72	1136.900	212.990	929.560	1649.200	1136.900
73	1034.300	212.540	828.580	1484.000	1034.300
74	926.600	213.680	720.220	1242.800	926.600
75	824.440	213.530	615.380	1108.200	824.440
76	708.020	216.080	531.180	884.390	708.020
77	609.500	218.470	457.020	721.460	609.500
78	520.250	217.860	377.300	550.850	520.250
79	440.430	204.190	299.140	386.070	440.430
80	360.700	184.750	237.390	234.670	360.700
81	296.780	167.300	190.120	225.420	296.780
82	230.080	148.930	147.630	216.910	230.080
83	174.880	132.940	114.400	217.320	174.880
84	137.250	111.860	89.941	218.940	137.250
85	101.560	96.197	73.142	221.280	101.560
86	82.053	85.595	57.788	222.640	82.053
87	67.402	67.382	44.193	217.570	67.402
88	53.902	55.319	37.308	200.420	53.902
89	42.986	41.121	33.683	179.750	42.986
90	36.559	24.533	33.439	161.670	36.559
91	34.246	20.621	34.861	144.310	34.246
92	34.914	19.588	36.920	126.880	34.914
93	35.348	18.900	39.623	105.110	35.348
94	38.179	18.506	39.010	93.248	38.179
95	39.431	18.200	38.397	80.411	39.431
96	38.957	17.966	35.952	60.866	38.957
97	38.361	17.756	35.197	51.656	38.361
98	35.675	17.560	32.870	33.613	35.675
99	33.859	17.560	31.977	20.600	33.859
100	32.593	17.606	29.848	18.390	32.593
101	30.738	17.719	29.156	17.616	30.738
102	28.168	17.756	27.788	17.057	28.168
103	27.753	17.767	27.129	16.673	27.753
104	26.706	18.322	26.894	16.367	26.706
105	25.798	18.966	25.696	16.100	25.798
106	25.400	19.597	25.379	15.858	25.400
107	24.260	20.220	25.122	15.723	24.260
108	23.992	20.831	24.599	15.677	23.992
109	23.926	21.473	24.680	15.692	23.926

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110	23.334	22.104	24.972	15.781	23.334
111	23.324	22.747	24.893	15.820	23.324
112	23.708	23.417	24.863	16.090	23.708
113	23.410	24.101	25.351	16.707	23.410
114	23.508	24.772	25.755	17.347	23.508
115	24.052	25.467	26.152	17.937	24.052
116	24.447	26.134	26.583	18.547	24.447
117	24.833	26.825	27.052	19.161	24.833
118	25.213	27.523	27.566	19.804	25.213
119	25.743	28.244	28.103	20.451	25.743
120	26.254	28.945	28.587	21.089	26.254
121	26.772	29.609	29.088	21.733	26.772
122	27.270	30.257	29.595	22.366	27.270
123	27.773	30.884	30.006	23.007	27.773
124	28.173	31.495	30.378	23.676	28.173
125	28.467	32.137	30.726	24.346	28.467
126	28.777	32.788	31.193	25.025	28.777
127	29.176	33.360	31.713	25.669	29.176
128	29.659	33.913	32.282	26.326	29.659
129	30.214	34.498	32.849	26.999	30.214
130	30.802	35.078	33.366	27.666	30.802
131	31.398	35.646	33.953	28.323	31.398
132	32.006	36.251	34.616	28.932	32.006
133	32.608	36.886	35.239	29.541	32.608
134	33.210	37.530	35.826	30.106	33.210
135	33.804	38.148	36.430	30.682	33.804
136	34.397	38.764	37.038	31.255	34.397
137	35.013	39.367	37.541	31.842	35.013
138	35.642	39.962	38.016	32.467	35.642
139	36.227	40.524	38.583	33.078	36.227
140	36.806	41.103	39.121	33.708	36.806
141	37.373	41.645	39.608	34.380	37.373
142	37.971	42.207	40.075	35.052	37.971
143	38.566	42.736	40.588	35.736	38.566
144	39.193	43.217	41.020	36.431	39.193
145	39.808	43.725	41.519	37.109	39.808
146	40.396	44.231	42.119	37.786	40.396
147	40.993	44.676	42.566	38.471	40.993
148	41.561	44.990	42.882	39.178	41.561
149	42.121	45.388	43.368	39.858	42.121
150	42.664	45.790	43.797	40.517	42.664
151	43.185	46.249	44.240	41.152	43.185
152	43.706	46.655	44.673	41.841	43.706
153	44.214	46.992	45.040	42.492	44.214
154	44.734	47.357	45.475	43.145	44.734
155	45.236	47.599	45.799	43.767	45.236
156	45.736	47.931	46.191	44.367	45.736
157	46.181	48.166	46.516	44.954	46.181
158	46.577	48.481	46.885	45.515	46.577
159	47.002	48.713	47.199	46.065	47.002
160	47.431	49.005	47.544	46.605	47.431
161	47.828	49.281	47.882	47.110	47.828
162	48.260	49.556	48.201	47.593	48.260
163	48.681	49.782	48.533	48.062	48.681
164	49.003	50.116	48.949	48.554	49.003
165	49.359	50.506	49.408	49.003	49.359

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CANDELA TABULATION - (Cont.)

166	49.676	50.856	49.822	49.424	49.676
167	50.011	51.170	50.232	49.778	50.011
168	50.357	51.418	50.533	50.109	50.357
169	50.651	51.713	50.968	50.461	50.651
170	50.916	52.018	51.276	50.787	50.916
171	51.150	52.278	51.609	51.074	51.150
172	51.409	52.532	51.909	51.382	51.409
173	51.679	52.759	52.093	51.736	51.679
174	51.890	53.047	52.298	52.092	51.890
175	52.095	53.368	52.501	52.424	52.095
176	52.246	53.668	52.594	52.726	52.246
177	52.443	53.766	52.639	53.027	52.443
178	52.549	53.819	52.692	53.269	52.549
179	52.617	53.810	52.707	53.487	52.617
180	52.532	52.532	52.532	52.532	52.532

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2130.36	13.00	13.00
0-30	4546.07	27.80	27.80
0-40	7510.59	46.00	46.00
0-60	13374.32	81.80	81.80
0-80	15984.61	97.80	97.80
0-90	16132.71	98.70	98.70
10-90	15583.88	95.30	95.30
20-40	5380.23	32.90	32.90
20-50	8495.72	52.00	52.00
40-70	7736.42	47.30	47.30
60-80	2610.29	16.00	16.00
70-80	737.60	4.50	4.50
80-90	148.10	0.90	0.90
90-110	70.23	0.40	0.40
90-120	93.56	0.60	0.60
90-130	119.48	0.70	0.70
90-150	171.70	1.10	1.10
90-180	211.67	1.30	1.30
110-180	141.43	0.90	0.90
0-180	16344.38	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	548.83
10-20	1581.53
20-30	2415.71
30-40	2964.52
40-50	3115.49
50-60	2748.24
60-70	1872.69
70-80	737.60
80-90	148.10
90-100	46.82
100-110	23.41
110-120	23.32
120-130	25.93
130-140	26.84
140-150	25.37
150-160	21.02
160-170	13.98
170-180	4.97

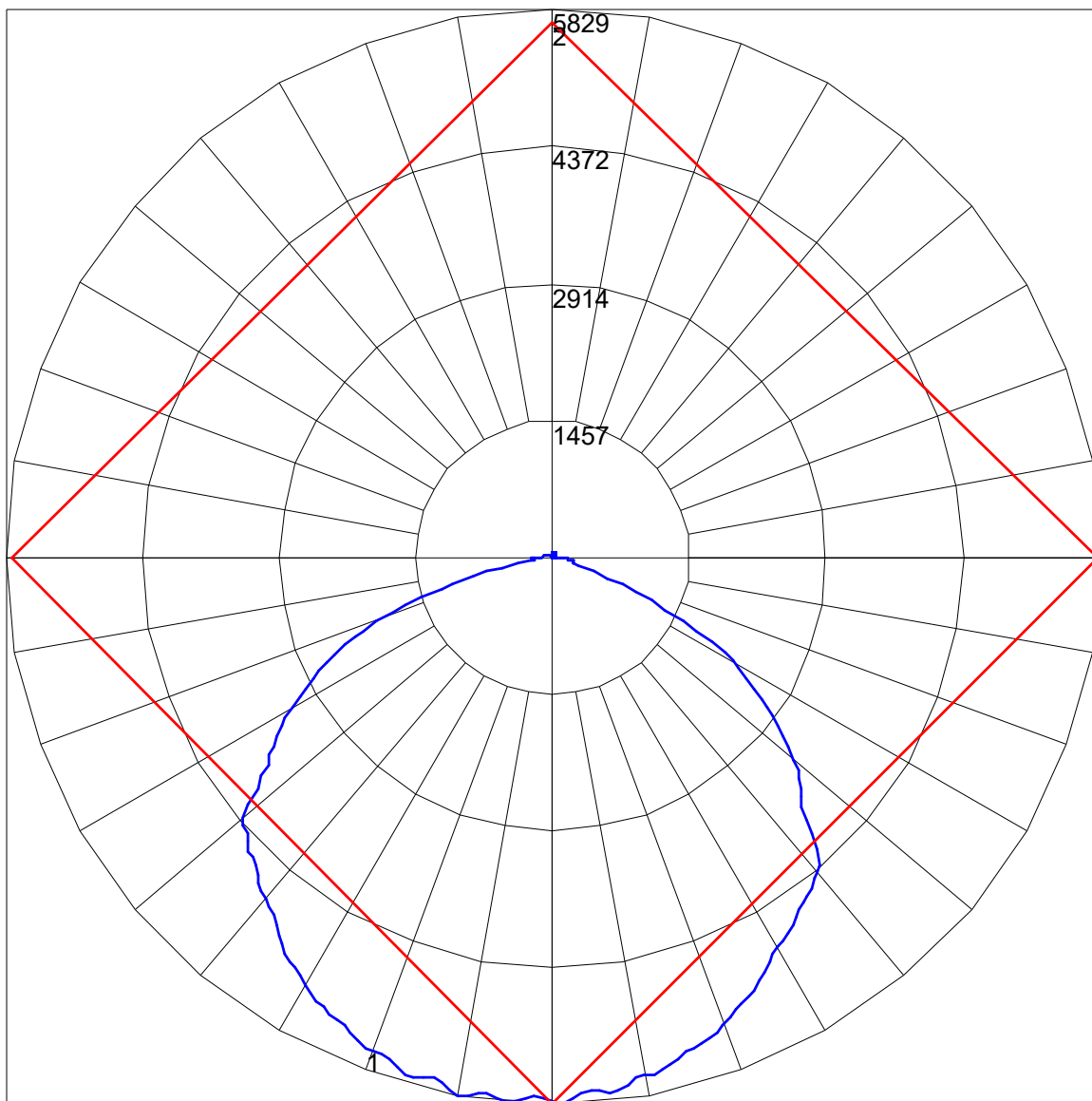
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	79	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	53	51
5	77	64	55	49	74	63	55	48	61	53	48	58	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	37	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	37	33	43	37	32	31
9	57	44	35	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 = 5828.8 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.)