



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZX-EX-H4-200W-5000K-D120.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] HZX-EX-H4-200W-5000K-D120  
 [TESTLAB] EVERFINE  
 [TESTDATE] 23 July 2025  
 [ISSUEDATE] 2025-07-23 15:54:19  
 [NEARFIELD]  
 [LAMPPOSITION] 0,0  
 [OTHER] EVERFINE GO-3000H\_V1 SYSTEM  
 [MANUFAC] BELUCE CANADA INC.  
 [LUMINAIRE] HZX-EX-H4-200W-5000K-D120  
 [LUMCAT] ] HZX-EX-H4-200W-5000K-D120  
 [LAMP] 32183 LUMENS  
 [\_SEARCH\_SOURCETYPE] LED

### CHARACTERISTICS

Lumens Per Lamp	32183 (1 lamp)
Total Lamp Lumens	32183
Luminaire Lumens	32182
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	170
Total Luminaire Watts	189.661
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
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	76851	76110	75369
55	72276	71748	71219
65	62787	55600	48414
75	45001	28759	12517
85	17027	19173	21319

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**CANDELA TABULATION**

	<u>0</u>	<u>90</u>	<u>180</u>	<u>270</u>	<u>360</u>
0	11386.000	11386.000	11386.000	11386.000	11386.000
1	11384.000	11433.000	11387.000	11329.000	11384.000
2	11383.000	11407.000	11387.000	11347.000	11383.000
3	11383.000	11318.000	11376.000	11413.000	11383.000
4	11378.000	11248.000	11358.000	11441.000	11378.000
5	11369.000	11259.000	11337.000	11399.000	11369.000
6	11356.000	11309.000	11315.000	11346.000	11356.000
7	11334.000	11306.000	11286.000	11340.000	11334.000
8	11306.000	11228.000	11257.000	11383.000	11306.000
9	11270.000	11139.000	11227.000	11416.000	11270.000
10	11234.000	11120.000	11190.000	11360.000	11234.000
11	11199.000	11140.000	11154.000	11251.000	11199.000
12	11164.000	11103.000	11108.000	11190.000	11164.000
13	11127.000	11005.000	11061.000	11230.000	11127.000
14	11084.000	10914.000	11009.000	11302.000	11084.000
15	11035.000	10865.000	10958.000	11305.000	11035.000
16	10984.000	10834.000	10905.000	11202.000	10984.000
17	10925.000	10759.000	10847.000	11073.000	10925.000
18	10863.000	10690.000	10782.000	11013.000	10863.000
19	10800.000	10660.000	10708.000	11031.000	10800.000
20	10734.000	10624.000	10634.000	11034.000	10734.000
21	10666.000	10521.000	10555.000	10949.000	10666.000
22	10592.000	10372.000	10470.000	10820.000	10592.000
23	10511.000	10287.000	10389.000	10742.000	10511.000
24	10427.000	10263.000	10297.000	10736.000	10427.000
25	10343.000	10214.000	10195.000	10720.000	10343.000
26	10251.000	10090.000	10095.000	10624.000	10251.000
27	10152.000	9937.200	9994.400	10508.000	10152.000
28	10046.000	9835.700	9893.100	10434.000	10046.000
29	9935.800	9782.500	9785.900	10388.000	9935.800
30	9818.600	9692.900	9680.700	10298.000	9818.600
31	9709.400	9576.000	9556.900	10191.000	9709.400
32	9612.500	9496.100	9423.500	10115.000	9612.500
33	9495.500	9430.000	9304.100	10043.000	9495.500
34	9366.300	9303.400	9183.600	9939.800	9366.300
35	9229.100	9143.900	9063.100	9803.300	9229.100
36	9086.200	9034.300	8929.400	9665.500	9086.200
37	8967.300	9016.000	8783.000	9586.100	8967.300
38	8847.800	9037.700	8640.700	9550.200	8847.800
39	8711.300	9080.200	8499.500	9497.400	8711.300
40	8560.600	9047.000	8349.900	9430.300	8560.600
41	8405.200	8863.900	8172.900	9371.400	8405.200
42	8259.900	8565.300	8008.400	9382.000	8259.900
43	8102.100	8242.100	7830.400	9393.000	8102.100
44	7934.800	7898.100	7646.100	9341.100	7934.800
45	7763.300	7613.600	7472.400	9201.400	7763.300
46	7566.400	7326.600	7322.600	8967.500	7566.400
47	7385.700	7251.600	7125.600	8715.000	7385.700
48	7220.100	7253.700	6919.300	8415.500	7220.100
49	7051.400	7208.000	6759.300	8064.900	7051.400
50	6837.100	6982.700	6557.500	7711.400	6837.100
51	6655.800	6643.900	6343.000	7517.800	6655.800
52	6500.600	6263.900	6207.000	7504.900	6500.600
53	6280.400	5976.200	5963.800	7505.500	6280.400

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**CANDELA TABULATION - (Cont.)**

54	6096.700	5865.800	5782.400	7467.500	6096.700
55	5922.400	5835.800	5544.200	7205.200	5922.400
56	5714.600	5619.400	5336.000	6833.400	5714.600
57	5515.700	5273.400	5121.000	6456.900	5515.700
58	5315.900	4946.300	4897.100	6205.700	5315.900
59	5103.400	4795.600	4641.100	6165.000	5103.400
60	4886.100	4644.900	4437.300	6139.600	4886.100
61	4668.800	4366.700	4190.500	5936.100	4668.800
62	4433.300	4014.000	3995.600	5604.500	4433.300
63	4223.000	3710.600	3758.900	5324.600	4223.000
64	3995.500	3479.200	3545.600	5143.700	3995.500
65	3790.800	2923.000	3318.100	4957.900	3790.800
66	3574.000	2635.500	3077.900	4719.600	3574.000
67	3359.700	2213.200	2832.800	4401.600	3359.700
68	3124.700	1842.800	2629.600	4164.900	3124.700
69	2905.000	1443.800	2406.000	3955.800	2905.000
70	2698.400	1157.100	2168.800	3624.600	2698.400
71	2491.900	873.290	1969.700	3209.000	2491.900
72	2249.300	577.670	1771.000	2914.100	2249.300
73	2033.000	463.690	1552.900	2496.300	2033.000
74	1860.600	459.790	1347.900	2170.200	1860.600
75	1663.900	462.800	1175.600	1769.300	1663.900
76	1463.600	464.740	1020.400	1446.200	1463.600
77	1247.500	470.750	859.060	1084.600	1247.500
78	1058.300	472.610	696.360	743.590	1058.300
79	902.000	478.050	549.630	456.730	902.000
80	754.490	439.330	432.320	452.600	754.490
81	593.610	400.500	334.990	448.140	593.610
82	478.210	362.000	254.900	442.480	478.210
83	362.840	332.040	212.070	440.210	362.840
84	283.320	291.160	169.730	452.520	283.320
85	212.010	265.440	135.600	453.780	212.010
86	178.560	228.460	97.639	448.600	178.560
87	140.400	191.070	76.859	423.210	140.400
88	106.870	172.730	67.617	383.750	106.870
89	77.545	133.720	64.030	350.840	77.545
90	66.289	105.970	63.760	310.220	66.289
91	62.978	76.941	68.491	275.960	62.978
92	64.011	42.702	69.214	246.380	64.011
93	64.778	36.672	74.461	214.480	64.778
94	66.258	35.334	74.763	182.580	66.258
95	73.142	34.521	73.793	154.710	73.142
96	75.451	34.051	70.802	112.290	75.451
97	74.118	33.755	68.424	92.178	74.118
98	72.067	33.559	63.662	58.193	72.067
99	69.833	33.410	61.520	36.013	69.833
100	66.048	33.508	58.521	34.168	66.048
101	63.258	33.647	57.179	33.213	63.258
102	59.669	34.050	54.157	32.664	59.669
103	57.826	34.495	53.027	32.393	57.826
104	54.873	34.777	52.206	32.212	54.873
105	52.618	35.844	50.984	32.150	52.618
106	51.170	37.068	49.794	32.090	51.170
107	51.413	38.263	49.545	32.209	51.413
108	49.335	39.475	49.084	32.503	49.335
109	48.422	40.679	49.164	33.057	48.422

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**CANDELA TABULATION - (Cont.)**

110	48.157	41.902	49.478	33.553	48.157
111	47.595	43.137	49.348	33.841	47.595
112	48.122	44.385	49.837	34.934	48.122
113	48.150	45.671	50.763	36.193	48.150
114	47.993	46.999	51.513	37.456	47.993
115	48.901	48.323	52.497	38.726	48.901
116	49.793	49.650	53.282	39.979	49.793
117	50.658	50.993	54.244	41.212	50.658
118	51.555	52.302	55.129	42.469	51.555
119	52.387	53.701	56.181	43.773	52.387
120	53.301	55.115	57.113	45.094	53.301
121	54.293	56.465	58.168	46.399	54.293
122	55.205	57.735	59.154	47.696	55.205
123	56.268	59.007	60.212	48.990	56.268
124	57.254	60.263	61.069	50.332	57.254
125	58.271	61.534	61.547	51.679	58.271
126	59.240	62.803	62.153	53.037	59.240
127	59.646	64.055	63.074	54.327	59.646
128	60.342	65.268	64.225	55.654	60.342
129	61.089	66.468	65.365	56.933	61.089
130	62.033	67.617	66.565	58.291	62.033
131	63.127	68.649	67.785	59.551	63.127
132	64.251	69.764	68.906	60.780	64.251
133	65.414	70.895	70.018	61.962	65.414
134	66.582	71.967	71.128	63.118	66.582
135	67.752	73.022	72.263	64.231	67.752
136	68.915	74.178	73.426	65.347	68.915
137	70.076	75.441	74.526	66.438	70.076
138	71.256	76.665	75.606	67.580	71.256
139	72.399	77.845	76.535	68.802	72.399
140	73.593	78.970	77.489	70.082	73.593
141	74.780	80.138	78.470	71.420	74.780
142	75.927	81.314	79.463	72.741	75.927
143	76.979	82.463	80.516	74.083	76.979
144	78.144	83.640	81.536	75.426	78.144
145	79.287	84.648	82.396	76.742	79.287
146	80.439	85.555	83.283	78.047	80.439
147	81.595	86.426	84.180	79.383	81.595
148	82.717	87.345	85.068	80.691	82.717
149	83.802	88.140	85.887	81.917	83.802
150	84.846	88.958	86.712	83.094	84.846
151	85.867	89.744	87.525	84.232	85.867
152	86.863	90.595	88.390	85.388	86.863
153	87.831	91.402	89.249	86.551	87.831
154	88.786	92.034	89.971	87.722	88.786
155	89.761	92.733	90.707	88.893	89.761
156	90.650	93.376	91.395	90.045	90.650
157	91.508	93.980	92.046	91.212	91.508
158	92.340	94.490	92.689	92.284	92.340
159	93.169	95.019	93.301	93.342	93.169
160	93.945	95.459	93.933	94.322	93.945
161	94.717	95.958	94.539	95.255	94.717
162	95.460	96.600	95.175	96.178	95.460
163	96.184	97.197	95.772	97.086	96.184
164	96.887	97.859	96.514	97.889	96.887
165	97.596	98.708	97.397	98.593	97.596

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**CANDELA TABULATION - (Cont.)**

<b>166</b>	98.273	99.448	98.176	99.263	98.273
<b>167</b>	98.874	100.170	98.931	99.926	98.874
<b>168</b>	99.410	100.720	99.512	100.490	99.410
<b>169</b>	99.935	101.290	100.210	101.040	99.935
<b>170</b>	100.470	101.960	100.950	101.620	100.470
<b>171</b>	100.930	102.540	101.460	102.230	100.930
<b>172</b>	101.350	103.170	101.970	102.800	101.350
<b>173</b>	101.790	103.750	102.410	103.400	101.790
<b>174</b>	102.170	104.440	102.770	104.010	102.170
<b>175</b>	102.510	105.100	103.120	104.580	102.510
<b>176</b>	102.850	105.780	103.370	105.130	102.850
<b>177</b>	103.070	106.130	103.550	105.600	103.070
<b>178</b>	103.310	106.310	103.590	105.870	103.310
<b>179</b>	103.490	106.490	103.670	106.130	103.490
<b>180</b>	103.500	103.500	103.500	103.500	103.500

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4192.02	13.00	13.00
0-30	8959.63	27.80	27.80
0-40	14809.53	46.00	46.00
0-60	26369.66	81.90	81.90
0-80	31451.56	97.70	97.70
0-90	31761.45	98.70	98.70
10-90	30681.88	95.30	95.30
20-40	10617.51	33.00	33.00
20-50	16788.00	52.20	52.20
40-70	15253.64	47.40	47.40
60-80	5081.9	15.80	15.80
70-80	1388.38	4.30	4.30
80-90	309.90	1.00	1.00
90-110	138.00	0.40	0.40
90-120	184.93	0.60	0.60
90-130	237.04	0.70	0.70
90-150	341.14	1.10	1.10
90-180	420.35	1.30	1.30
110-180	282.34	0.90	0.90
0-180	32181.8	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1079.58
10-20	3112.45
20-30	4767.6
30-40	5849.91
40-50	6170.5
50-60	5389.63
60-70	3693.52
70-80	1388.38
80-90	309.90
90-100	91.51
100-110	46.49
110-120	46.92
120-130	52.11
130-140	53.57
140-150	50.53
150-160	41.72
160-170	27.66
170-180	9.82

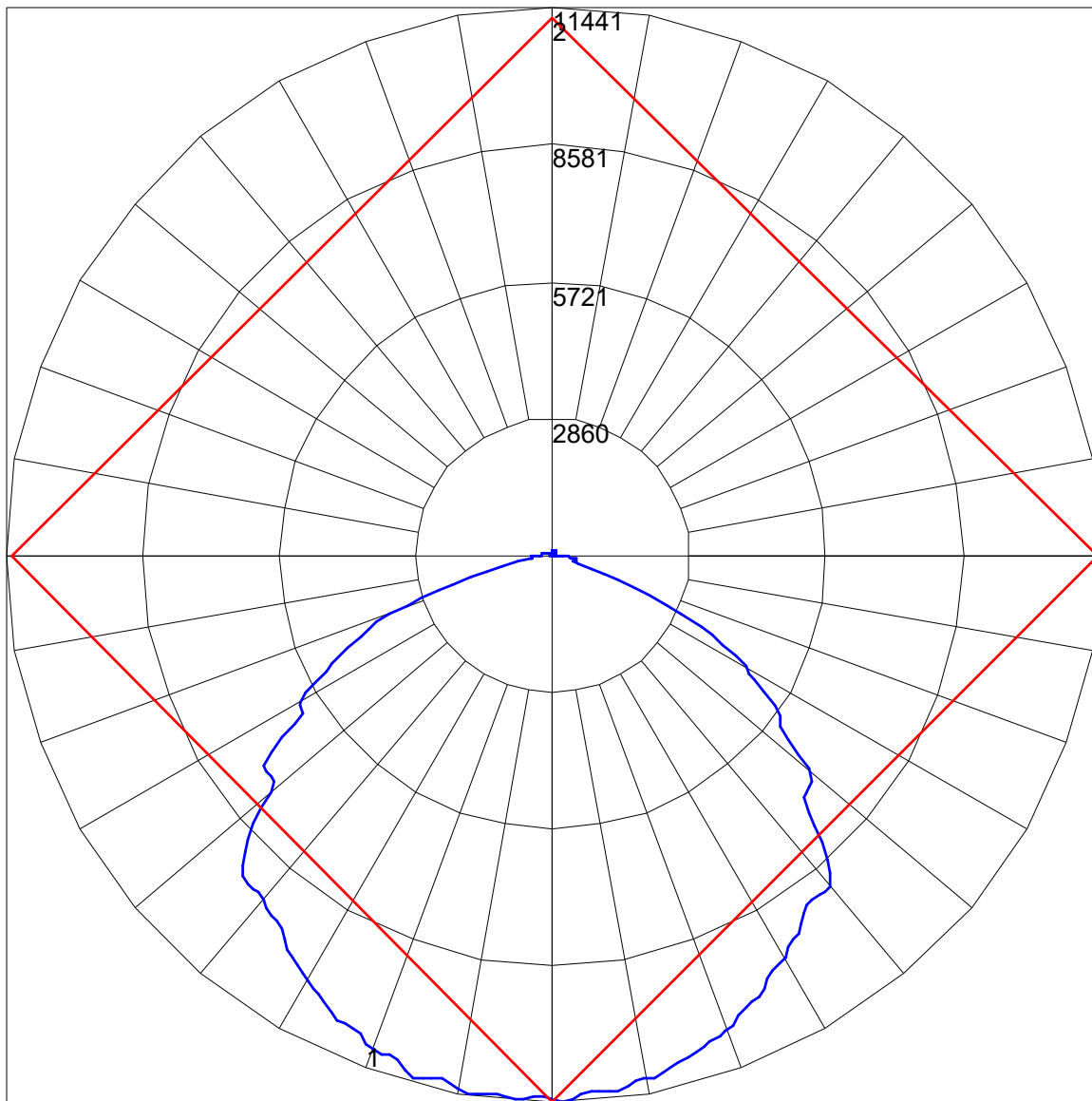
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	89	79	72	66	76	70	65	73	68	63	71	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	75	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	40	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 = 11441 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.)