



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZX-EX-D4-40W-4000K-D120.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] HZX-EX-D4-40W-4000K-D120
 [TESTLAB] EVERFINE
 [TESTDATE] 16 April 2025
 [ISSUEDATE] 2025-04-18 17:10:45
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-3000H_V1 SYSTEM
 [MANUFAC] BELUCE CANADA INC.
 [LUMINAIRE] HZX-EX-D4-40W-4000K-D120
 [LUMCAT]] HZX-EX-D4-40W-4000K-D120
 [LAMP] 5315 LUMENS
 [_SEARCH_SOURCETYPE] LED

CHARACTERISTICS

Lumens Per Lamp	5314.8 (1 lamp)
Total Lamp Lumens	5314.8
Luminaire Lumens	5315
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	40.4112
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.22 m
Luminous Width (90-270)	0.30 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	29557	28627	27696
55	25894	24589	23284
65	18922	17263	15604
75	8284	6424	4564
85	1972	1971	1969

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CANDELA TABULATION

	<u>0</u>	<u>90</u>	<u>180</u>	<u>270</u>	<u>360</u>
0	2318.600	2318.600	2318.600	2318.600	2318.600
1	2317.800	2318.800	2319.600	2317.900	2317.800
2	2317.400	2318.600	2318.600	2316.700	2317.400
3	2316.200	2317.800	2315.900	2314.600	2316.200
4	2312.500	2315.600	2312.400	2311.400	2312.500
5	2307.500	2312.100	2304.500	2307.000	2307.500
6	2302.000	2307.700	2288.900	2302.100	2302.000
7	2296.100	2302.400	2260.400	2296.200	2296.100
8	2290.100	2296.600	2218.300	2289.400	2290.100
9	2283.200	2290.400	2185.300	2282.500	2283.200
10	2275.800	2283.900	2163.800	2274.900	2275.800
11	2267.400	2276.800	2153.300	2266.600	2267.400
12	2259.300	2269.400	2145.400	2257.500	2259.300
13	2250.700	2253.400	2137.000	2244.000	2250.700
14	2241.100	2224.100	2128.100	2217.900	2241.100
15	2229.100	2193.100	2118.900	2186.800	2229.100
16	2216.100	2163.000	2110.300	2155.600	2216.100
17	2202.900	2141.800	2101.600	2128.900	2202.900
18	2190.400	2129.100	2092.600	2112.400	2190.400
19	2177.500	2115.000	2082.100	2098.000	2177.500
20	2163.300	2096.800	2069.700	2081.100	2163.300
21	2148.100	2070.700	2056.200	2059.600	2148.100
22	2131.600	2034.900	2042.700	2026.700	2131.600
23	2115.900	1999.900	2029.500	1991.600	2115.900
24	2098.600	1970.200	2004.900	1957.400	2098.600
25	2079.100	1948.800	1965.600	1930.900	2079.100
26	2058.600	1927.600	1907.200	1910.400	2058.600
27	2037.900	1905.700	1861.200	1887.600	2037.900
28	2010.500	1878.700	1828.900	1863.900	2010.500
29	1963.700	1841.000	1809.700	1831.500	1963.700
30	1899.800	1804.000	1791.400	1792.800	1899.800
31	1852.800	1767.600	1771.300	1753.800	1852.800
32	1821.100	1739.300	1751.100	1719.200	1821.100
33	1798.500	1714.100	1730.600	1692.700	1798.500
34	1774.500	1689.300	1710.600	1667.200	1774.500
35	1749.300	1654.900	1690.900	1640.500	1749.300
36	1724.400	1611.600	1670.900	1600.500	1724.400
37	1699.300	1567.400	1651.100	1553.200	1699.300
38	1673.500	1535.000	1629.200	1510.800	1673.500
39	1647.900	1510.600	1596.600	1480.600	1647.900
40	1621.000	1484.900	1543.000	1455.000	1621.000
41	1593.600	1439.400	1475.300	1424.900	1593.600
42	1557.800	1389.400	1430.300	1376.400	1557.800
43	1492.000	1348.500	1401.000	1326.600	1492.000
44	1424.800	1322.600	1375.500	1289.900	1424.800
45	1380.000	1293.100	1350.000	1262.100	1380.000
46	1347.600	1245.600	1322.400	1226.600	1347.600
47	1318.700	1194.500	1291.300	1174.600	1318.700
48	1289.600	1159.900	1260.300	1128.600	1289.600
49	1257.900	1132.200	1231.000	1098.400	1257.900
50	1226.000	1090.000	1199.400	1067.300	1226.000
51	1194.200	1039.800	1133.400	1018.000	1194.200
52	1143.300	1005.800	1072.900	974.140	1143.300
53	1065.600	973.120	1039.000	942.720	1065.600

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CANDELA TABULATION - (Cont.)

54	1017.800	922.170	1008.100	900.070	1017.800
55	980.660	881.820	974.710	851.080	980.660
56	944.930	847.690	941.840	818.230	944.930
57	910.790	789.210	908.670	771.620	910.790
58	876.300	748.050	851.920	719.840	876.300
59	811.850	708.370	780.410	685.440	811.850
60	753.240	652.640	748.140	631.280	753.240
61	718.180	615.230	717.860	590.060	718.180
62	678.920	565.410	685.910	545.770	678.920
63	639.250	524.380	649.990	501.410	639.250
64	577.860	476.690	573.830	457.830	577.860
65	528.020	435.420	532.200	417.520	528.020
66	495.470	394.210	500.320	369.820	495.470
67	447.230	359.130	471.950	337.940	447.230
68	399.180	315.930	406.420	294.880	399.180
69	365.020	273.060	372.680	254.090	365.020
70	331.910	234.850	341.320	221.800	331.910
71	280.590	199.130	287.220	189.590	280.590
72	251.200	165.530	260.140	156.810	251.200
73	205.810	134.850	226.400	127.330	205.810
74	179.030	105.190	192.580	99.415	179.030
75	141.560	77.990	156.140	74.469	141.560
76	109.500	50.926	130.430	48.338	109.500
77	83.955	29.342	99.117	27.188	83.955
78	60.545	20.959	72.221	22.306	60.545
79	42.484	19.683	49.177	20.942	42.484
80	28.004	18.466	33.571	19.651	28.004
81	17.958	17.264	18.551	18.362	17.958
82	16.245	15.927	13.397	17.044	16.245
83	14.572	14.552	12.169	15.696	14.572
84	12.926	13.164	11.148	14.310	12.926
85	11.351	11.332	10.261	12.309	11.351
86	9.000	8.610	9.462	9.423	9.000
87	5.641	5.746	8.004	6.298	5.641
88	2.534	2.776	5.632	3.049	2.534
89	1.585	1.737	2.997	1.590	1.585
90	1.655	1.669	2.071	1.429	1.655
91	1.782	1.806	2.068	1.495	1.782
92	1.920	1.935	2.196	1.616	1.920
93	2.061	2.062	2.325	1.736	2.061
94	2.213	2.198	2.482	1.879	2.213
95	2.357	2.335	2.633	2.016	2.357
96	2.493	2.471	2.793	2.166	2.493
97	2.658	2.622	2.957	2.316	2.658
98	2.826	2.788	3.146	2.460	2.826
99	2.998	2.953	3.329	2.628	2.998
100	3.172	3.127	3.516	2.808	3.172
101	3.370	3.303	3.713	2.983	3.370
102	3.571	3.499	3.902	3.163	3.571
103	3.753	3.681	4.112	3.360	3.753
104	3.950	3.875	4.310	3.555	3.950
105	4.160	4.073	4.519	3.766	4.160
106	4.359	4.283	4.733	3.964	4.359
107	4.577	4.488	4.957	4.175	4.577
108	4.790	4.691	5.169	4.387	4.790
109	5.006	4.910	5.394	4.612	5.006

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CANDELA TABULATION - (Cont.)

110	5.226	5.131	5.629	4.822	5.226
111	5.446	5.349	5.872	5.049	5.446
112	5.679	5.577	6.106	5.287	5.679
113	5.889	5.801	6.323	5.520	5.889
114	6.116	6.043	6.572	5.753	6.116
115	6.335	6.277	6.821	5.980	6.335
116	6.579	6.497	7.073	6.223	6.579
117	6.820	6.741	7.329	6.454	6.820
118	7.060	6.994	7.577	6.705	7.060
119	7.286	7.238	7.826	6.939	7.286
120	7.516	7.492	8.075	7.197	7.516
121	7.763	7.734	8.330	7.438	7.763
122	8.003	7.984	8.581	7.687	8.003
123	8.240	8.234	8.832	7.938	8.240
124	8.472	8.476	9.074	8.177	8.472
125	8.707	8.732	9.321	8.413	8.707
126	8.935	8.981	9.571	8.659	8.935
127	9.151	9.207	9.812	8.909	9.151
128	9.385	9.471	10.053	9.151	9.385
129	9.611	9.714	10.279	9.402	9.611
130	9.848	9.956	10.515	9.652	9.848
131	10.079	10.199	10.748	9.891	10.079
132	10.298	10.441	10.983	10.120	10.298
133	10.528	10.676	11.224	10.361	10.528
134	10.760	10.924	11.460	10.608	10.760
135	10.985	11.151	11.701	10.852	10.985
136	11.228	11.389	11.933	11.093	11.228
137	11.469	11.631	12.162	11.342	11.469
138	11.702	11.861	12.403	11.592	11.702
139	11.937	12.102	12.622	11.833	11.937
140	12.188	12.318	12.869	12.095	12.188
141	12.421	12.561	13.073	12.347	12.421
142	12.663	12.811	13.294	12.602	12.663
143	12.910	13.021	13.496	12.838	12.910
144	13.144	13.235	13.731	13.100	13.144
145	13.395	13.461	13.928	13.344	13.395
146	13.629	13.657	14.125	13.605	13.629
147	13.861	13.890	14.312	13.841	13.861
148	14.073	14.072	14.485	14.060	14.073
149	14.292	14.283	14.667	14.296	14.292
150	14.496	14.489	14.857	14.529	14.496
151	14.707	14.690	15.038	14.762	14.707
152	14.896	14.894	15.210	14.984	14.896
153	15.107	15.091	15.392	15.209	15.107
154	15.298	15.289	15.559	15.428	15.298
155	15.500	15.477	15.709	15.632	15.500
156	15.696	15.659	15.876	15.852	15.696
157	15.901	15.833	16.018	16.057	15.901
158	16.082	15.997	16.168	16.243	16.082
159	16.269	16.156	16.297	16.433	16.269
160	16.445	16.307	16.441	16.621	16.445
161	16.618	16.458	16.578	16.802	16.618
162	16.790	16.609	16.735	16.976	16.790
163	16.949	16.768	16.880	17.135	16.949
164	17.109	16.934	17.051	17.286	17.109
165	17.275	17.123	17.226	17.437	17.275

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CANDELA TABULATION - (Cont.)

166	17.425	17.289	17.384	17.582	17.425
167	17.562	17.448	17.529	17.695	17.562
168	17.683	17.584	17.657	17.792	17.683
169	17.802	17.742	17.786	17.884	17.802
170	17.900	17.884	17.937	17.982	17.900
171	18.006	17.983	18.042	18.079	18.006
172	18.111	18.104	18.164	18.148	18.111
173	18.187	18.195	18.254	18.224	18.187
174	18.247	18.285	18.329	18.314	18.247
175	18.315	18.390	18.405	18.360	18.315
176	18.360	18.474	18.465	18.435	18.360
177	18.406	18.519	18.503	18.481	18.406
178	18.451	18.519	18.496	18.504	18.451
179	18.481	18.519	18.504	18.519	18.481
180	18.500	18.500	18.500	18.500	18.500

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	834.05	15.70	15.70
0-30	1744.66	32.80	32.80
0-40	2793.92	52.60	52.60
0-60	4639.95	87.30	87.30
0-80	5251.15	98.80	98.80
0-90	5262.74	99.00	99.00
10-90	5044.5	94.90	94.90
20-40	1959.87	36.90	36.90
20-50	2981.32	56.10	56.10
40-70	2325.74	43.80	43.80
60-80	611.20	11.50	11.50
70-80	131.49	2.50	2.50
80-90	11.59	0.20	0.20
90-110	6.95	0.10	0.10
90-120	13.26	0.20	0.20
90-130	21.12	0.40	0.40
90-150	38.21	0.70	0.70
90-180	51.98	1.00	1.00
110-180	45.03	0.80	0.80
0-180	5314.72	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	218.24
10-20	615.81
20-30	910.61
30-40	1049.26
40-50	1021.45
50-60	824.58
60-70	479.72
70-80	131.49
80-90	11.59
90-100	2.57
100-110	4.38
110-120	6.30
120-130	7.86
130-140	8.63
140-150	8.46
150-160	7.18
160-170	4.86
170-180	1.74

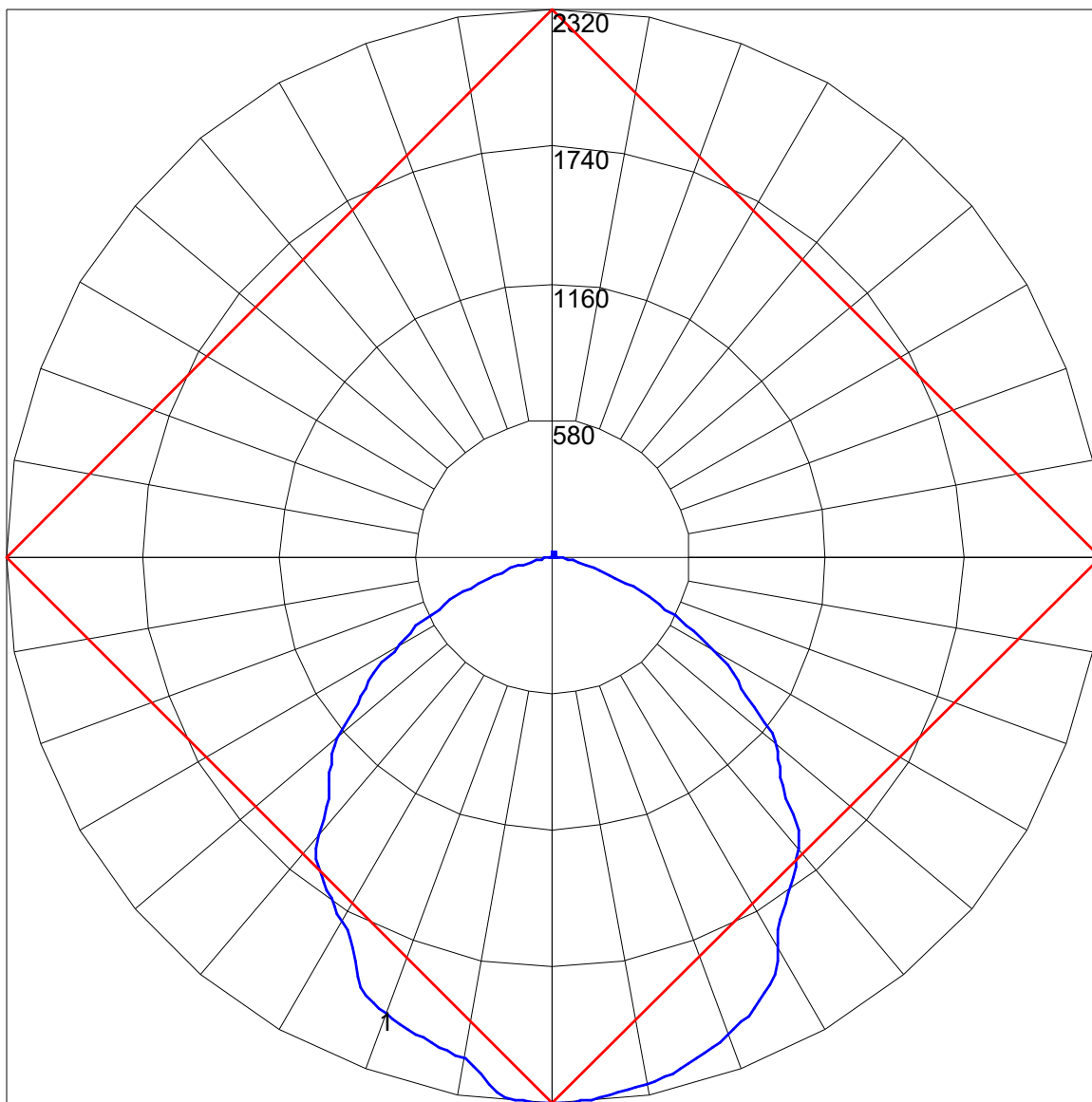
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	106	106	106	101	101	101	99
1	110	106	103	99	108	104	101	98	100	97	95	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	66	62	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	66	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	30	42	35	30	41	34	30	40	34	30	28

POLAR GRAPH



Maximum Candela = 2319.6 Located At Horizontal Angle = 180, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)