



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZX-EX-H2-60W-4000K-D120.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] HZX-EX-H2-60W-4000K-D120
 [TESTLAB] EVERFINE
 [TESTDATE] 24 July 2025
 [ISSUEDATE] 2025-07-24 19:37:16
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-3000H_V1 SYSTEM
 [MANUFAC] BELUCE CANADA INC.
 [LUMINAIRE] HZX-EX-H2-60W-4000K-D120
 [LUMCAT]] HZX-EX-H2-60W-4000K-D120
 [LAMP] 7438 LUMENS
 [_SEARCH_SOURCETYPE] LED

CHARACTERISTICS

Lumens Per Lamp	7437.9 (1 lamp)
Total Lamp Lumens	7437.9
Luminaire Lumens	7438
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	61.0484
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.49 m
Luminous Width (90-270)	0.05 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	75779	88299	100818
55	68306	87148	105991
65	56959	85055	113151
75	39051	77075	115099
85	15684	120624	225565

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CANDELA TABULATION

	<u>0</u>	<u>90</u>	<u>180</u>	<u>270</u>	<u>360</u>
0	2222.500	2222.500	2222.500	2222.500	2222.500
1	2218.300	2223.200	2226.200	2217.500	2218.300
2	2212.800	2219.300	2229.400	2213.500	2212.800
3	2206.500	2213.900	2231.600	2214.000	2206.500
4	2199.600	2211.900	2232.800	2215.400	2199.600
5	2192.000	2213.800	2232.900	2214.400	2192.000
6	2183.600	2215.600	2232.100	2208.900	2183.600
7	2174.600	2211.500	2230.300	2201.100	2174.600
8	2164.700	2201.900	2228.000	2195.200	2164.700
9	2154.000	2192.600	2224.400	2192.100	2154.000
10	2142.500	2188.800	2220.000	2190.100	2142.500
11	2130.100	2189.000	2215.000	2185.100	2130.100
12	2117.300	2186.900	2209.300	2176.300	2117.300
13	2103.400	2179.200	2202.900	2167.400	2103.400
14	2089.000	2167.400	2195.800	2160.000	2089.000
15	2074.200	2157.400	2187.900	2152.600	2074.200
16	2058.400	2151.000	2179.600	2144.200	2058.400
17	2041.600	2146.400	2170.200	2134.200	2041.600
18	2023.100	2136.900	2159.500	2124.800	2023.100
19	2003.500	2123.500	2147.700	2115.000	2003.500
20	1983.600	2110.900	2134.500	2103.700	1983.600
21	1962.800	2102.600	2121.000	2091.300	1962.800
22	1942.100	2096.000	2106.500	2080.500	1942.100
23	1921.000	2084.800	2091.700	2072.200	1921.000
24	1899.600	2069.600	2076.600	2062.400	1899.600
25	1877.100	2055.100	2060.600	2047.100	1877.100
26	1854.300	2043.500	2044.000	2029.200	1854.300
27	1830.900	2031.500	2026.200	2015.300	1830.900
28	1807.200	2016.100	2006.800	2005.800	1807.200
29	1782.800	2000.900	1987.300	1994.100	1782.800
30	1758.000	1988.200	1966.900	1976.900	1758.000
31	1731.800	1975.400	1946.400	1957.100	1731.800
32	1703.800	1958.900	1925.700	1939.000	1703.800
33	1675.400	1940.800	1904.300	1924.500	1675.400
34	1646.000	1923.400	1882.200	1910.500	1646.000
35	1617.200	1908.300	1858.600	1894.100	1617.200
36	1588.500	1894.300	1834.400	1878.200	1588.500
37	1558.700	1877.300	1810.100	1862.000	1558.700
38	1528.200	1857.900	1785.000	1843.200	1528.200
39	1497.900	1838.100	1759.800	1822.800	1497.900
40	1467.600	1820.500	1733.100	1802.900	1467.600
41	1436.000	1803.500	1706.200	1784.700	1436.000
42	1403.900	1788.400	1679.900	1772.600	1403.900
43	1372.400	1774.600	1654.300	1764.200	1372.400
44	1339.500	1759.300	1625.900	1754.500	1339.500
45	1308.000	1740.200	1594.400	1734.400	1308.000
46	1275.600	1720.500	1563.100	1708.800	1275.600
47	1242.100	1698.600	1532.200	1681.600	1242.100
48	1206.900	1666.100	1501.500	1650.000	1206.900
49	1170.600	1628.700	1470.200	1618.500	1170.600
50	1136.700	1595.400	1437.000	1585.600	1136.700
51	1101.400	1570.500	1405.600	1555.800	1101.400
52	1066.100	1556.300	1378.600	1537.100	1066.100
53	1030.100	1538.400	1342.400	1522.900	1030.100

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54	992.360	1512.900	1306.000	1506.200	992.360
55	956.360	1484.000	1273.800	1482.100	956.360
56	919.340	1447.500	1240.400	1449.800	919.340
57	882.180	1413.400	1204.600	1410.400	882.180
58	845.620	1389.500	1175.600	1375.100	845.620
59	808.610	1369.100	1137.900	1348.900	808.610
60	771.150	1338.100	1099.400	1330.800	771.150
61	733.200	1306.300	1063.700	1309.200	733.200
62	697.490	1268.700	1031.300	1273.500	697.490
63	661.080	1238.000	994.300	1234.500	661.080
64	622.060	1207.400	957.780	1200.100	622.060
65	587.600	1167.300	918.660	1176.300	587.600
66	548.020	1126.500	879.850	1147.200	548.020
67	513.370	1085.900	845.880	1103.400	513.370
68	477.130	1042.900	808.550	1058.200	477.130
69	445.160	996.850	771.510	1026.300	445.160
70	413.190	947.570	738.070	979.340	413.190
71	379.500	900.990	700.270	934.820	379.500
72	344.200	857.960	662.940	894.330	344.200
73	310.770	813.640	625.350	848.910	310.770
74	277.170	768.730	586.030	808.160	277.170
75	246.720	727.180	553.830	766.820	246.720
76	217.220	687.260	512.750	727.280	217.220
77	187.990	657.800	479.640	690.530	187.990
78	161.400	636.010	445.030	657.130	161.400
79	136.530	613.710	409.460	635.350	136.530
80	112.350	592.470	372.040	613.880	112.350
81	90.757	571.100	338.310	592.670	90.757
82	71.761	549.270	304.620	572.110	71.761
83	55.660	526.290	273.210	550.870	55.660
84	42.449	503.020	243.720	529.290	42.449
85	33.367	479.890	216.160	506.220	33.367
86	29.088	459.410	188.610	483.290	29.088
87	27.346	438.920	161.930	460.310	27.346
88	26.690	415.300	136.900	437.520	26.690
89	26.404	390.920	113.280	414.490	26.404
90	26.314	367.130	91.586	391.560	26.314
91	26.251	344.160	74.062	368.280	26.251
92	25.353	320.310	58.581	346.110	25.353
93	24.517	297.150	45.967	323.200	24.517
94	23.450	274.100	38.043	301.100	23.450
95	22.438	250.690	34.041	279.130	22.438
96	21.363	228.390	32.365	256.780	21.363
97	20.417	206.470	31.570	235.500	20.417
98	19.411	184.620	31.471	219.190	19.411
99	18.576	163.030	31.157	198.230	18.576
100	17.756	141.580	30.724	177.410	17.756
101	17.008	120.840	29.539	156.750	17.008
102	16.371	100.320	28.530	136.310	16.371
103	15.761	80.570	27.111	116.260	15.761
104	15.140	61.464	25.947	96.407	15.140
105	14.563	43.323	24.540	76.407	14.563
106	14.083	26.532	23.463	54.787	14.083
107	13.685	12.504	22.296	35.994	13.685
108	13.306	9.741	20.978	20.867	13.306
109	12.971	9.951	19.990	10.297	12.971

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PHOTOMETRIC FILENAME : HZX-EX-H2-60W-4000K-D120.IES

CANDELA TABULATION - (Cont.)

110	12.678	10.152	19.148	9.753	12.678
111	12.432	10.350	18.533	9.975	12.432
112	12.250	10.577	17.806	10.157	12.250
113	12.115	10.790	17.045	10.377	12.115
114	12.063	11.006	16.367	10.594	12.063
115	12.056	11.210	15.660	10.807	12.056
116	12.094	11.421	15.067	11.020	12.094
117	12.201	11.627	14.560	11.228	12.201
118	12.375	11.825	14.115	11.442	12.375
119	12.546	12.011	13.728	11.637	12.546
120	12.691	12.193	13.386	11.835	12.691
121	12.842	12.388	13.108	12.037	12.842
122	12.976	12.579	12.873	12.234	12.976
123	13.129	12.758	12.706	12.416	13.129
124	13.286	12.933	12.615	12.610	13.286
125	13.438	13.106	12.591	12.801	13.438
126	13.595	13.280	12.643	12.982	13.595
127	13.731	13.462	12.779	13.155	13.731
128	13.891	13.643	12.923	13.337	13.891
129	14.042	13.793	13.065	13.525	14.042
130	14.207	13.983	13.209	13.709	14.207
131	14.405	14.149	13.337	13.888	14.405
132	14.570	14.306	13.466	14.048	14.570
133	14.745	14.473	13.587	14.222	14.745
134	14.911	14.617	13.723	14.394	14.911
135	15.068	14.790	13.873	14.584	15.068
136	15.219	14.943	14.023	14.749	15.219
137	15.378	15.122	14.196	14.939	15.378
138	15.529	15.296	14.363	15.113	15.529
139	15.709	15.448	14.530	15.294	15.709
140	15.892	15.598	14.673	15.484	15.892
141	16.073	15.750	14.832	15.663	16.073
142	16.262	15.894	14.984	15.847	16.262
143	16.442	16.014	15.119	16.013	16.442
144	16.624	16.164	15.256	16.185	16.624
145	16.798	16.278	15.361	16.359	16.798
146	16.971	16.392	15.497	16.502	16.971
147	17.144	16.497	15.617	16.668	17.144
148	17.302	16.625	15.768	16.811	17.302
149	17.446	16.724	15.866	16.956	17.446
150	17.605	16.814	16.003	17.114	17.605
151	17.749	16.935	16.154	17.243	17.749
152	17.891	17.049	16.334	17.371	17.891
153	18.012	17.161	16.478	17.514	18.012
154	18.162	17.244	16.636	17.643	18.162
155	18.285	17.335	16.780	17.772	18.285
156	18.419	17.427	16.924	17.870	18.419
157	18.540	17.524	17.073	17.997	18.540
158	18.661	17.600	17.202	18.112	18.661
159	18.767	17.705	17.345	18.218	18.767
160	18.895	17.804	17.482	18.316	18.895
161	18.992	17.895	17.626	18.429	18.992
162	19.098	17.977	17.761	18.528	19.098
163	19.212	18.075	17.888	18.626	19.212
164	19.288	18.189	18.048	18.716	19.288
165	19.394	18.355	18.227	18.815	19.394

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166	19.476	18.500	18.403	18.898	19.476
167	19.567	18.634	18.569	18.958	19.567
168	19.635	18.725	18.698	19.026	19.635
169	19.687	18.831	18.855	19.079	19.687
170	19.740	18.960	19.050	19.140	19.740
171	19.785	19.043	19.158	19.200	19.785
172	19.830	19.125	19.286	19.245	19.830
173	19.853	19.194	19.399	19.298	19.853
174	19.860	19.284	19.498	19.344	19.860
175	19.860	19.359	19.581	19.366	19.860
176	19.860	19.442	19.664	19.427	19.860
177	19.845	19.472	19.724	19.450	19.845
178	19.845	19.472	19.785	19.457	19.845
179	19.838	19.472	19.808	19.457	19.838
180	19.836	19.836	19.836	19.836	19.836

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	815.67	11.00	11.00
0-30	1742.65	23.40	23.40
0-40	2881.89	38.70	38.70
0-60	5263.31	70.80	70.80
0-80	6825.55	91.80	91.80
0-90	7167.45	96.40	96.40
10-90	6957.14	93.50	93.50
20-40	2066.22	27.80	27.80
20-50	3291.2	44.20	44.20
40-70	3330.25	44.80	44.80
60-80	1562.24	21.00	21.00
70-80	613.41	8.20	8.20
80-90	341.90	4.60	4.60
90-110	209.97	2.80	2.80
90-120	222.43	3.00	3.00
90-130	234.13	3.10	3.10
90-150	255.55	3.40	3.40
90-180	270.78	3.60	3.60
110-180	60.81	0.80	0.80
0-180	7438.23	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	210.31
10-20	605.37
20-30	926.98
30-40	1139.24
40-50	1224.98
50-60	1156.43
60-70	948.84
70-80	613.41
80-90	341.90
90-100	163.76
100-110	46.21
110-120	12.46
120-130	11.69
130-140	11.28
140-150	10.15
150-160	8.10
160-170	5.28
170-180	1.86

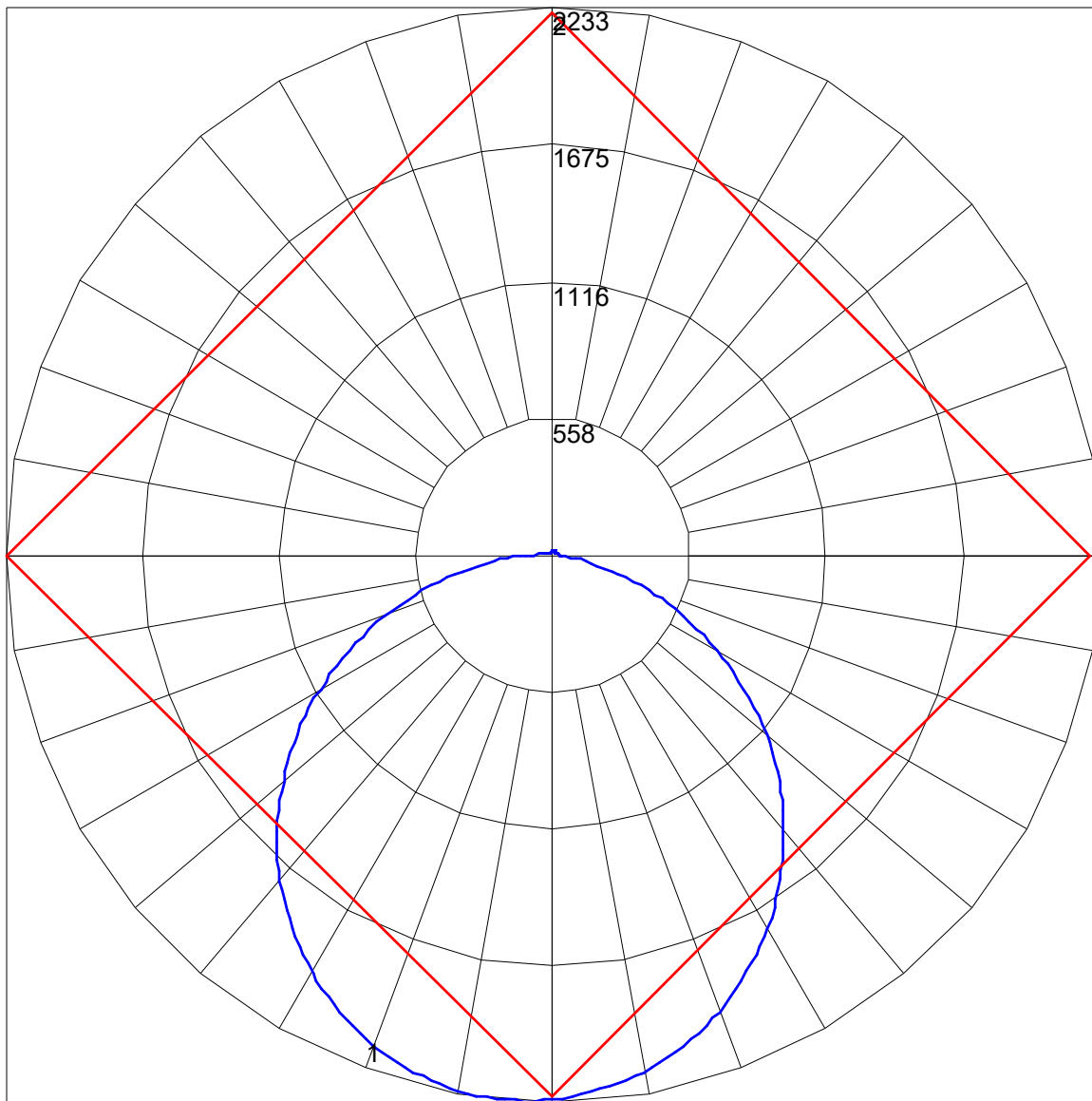
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	106	101	96	92	103	98	94	90	93	90	86	89	86	83	85	82	80	78
2	96	87	80	74	93	85	78	72	81	75	70	77	72	68	73	69	66	63
3	87	76	67	60	84	74	66	60	71	64	58	67	62	57	64	59	55	53
4	80	67	58	51	77	65	57	50	62	55	49	60	53	48	57	52	47	45
5	73	60	50	43	71	58	50	43	56	48	42	53	47	41	51	45	41	38
6	67	54	44	38	65	52	44	37	50	42	37	48	41	36	46	40	35	33
7	62	48	39	33	60	47	39	33	46	38	32	44	37	32	42	36	31	29
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	26
9	54	40	32	26	53	40	32	26	38	31	26	37	30	25	36	30	25	23
10	51	37	29	24	49	37	29	24	35	28	23	34	28	23	33	27	23	21

POLAR GRAPH



Maximum Candela = 2232.9 Located At Horizontal Angle = 180, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)