



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZX-EX-O2-30W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] HZX-EX-O2-30W
 [TESTLAB] EVERFINE
 [TESTDATE] 23 May 2025
 [ISSUEDATE] 2025-05-23 10:37:19
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-3000H_V1 SYSTEM
 [MANUFAC] BELUCE CANADA INC.
 [LUMINAIRE] HZX-EX-O2-30W
 [LUMCAT]] HZX-EX-O2-30W
 [LAMP] 2852 LUMENS
 [_SEARCH_SOURCETYPE] LED

CHARACTERISTICS

Lumens Per Lamp	2852 (1 lamp)
Total Lamp Lumens	2852
Luminaire Lumens	2852
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	29.1094
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	4.40
Spacing Criterion (90-270)	4.52
Spacing Criterion (Diagonal)	4.42
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.14 m (Diameter)
Luminous Width (90-270)	0.14 m (Diameter)
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23575	23461	23347
55	32801	32635	32469
65	46810	47791	48772
75	96633	98253	99872
85	278619	284326	290033

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZX-EX-O2-30W.IES

CANDELA TABULATION

	<u>0</u>	<u>90</u>	<u>180</u>	<u>270</u>	<u>360</u>
0	44.076	44.076	44.076	44.076	44.076
1	42.552	42.277	46.483	46.441	42.552
2	41.580	41.746	49.257	49.997	41.580
3	41.501	42.371	52.098	54.955	41.501
4	42.543	43.878	54.985	59.594	42.543
5	44.727	45.875	57.321	64.208	44.727
6	46.923	48.724	59.557	68.031	46.923
7	49.750	52.066	61.892	72.345	49.750
8	53.071	55.824	64.455	76.077	53.071
9	56.144	59.530	67.472	79.414	56.144
10	60.262	63.465	70.000	83.059	60.262
11	64.847	67.626	71.399	86.762	64.847
12	68.979	71.679	73.238	89.780	68.979
13	72.845	75.778	75.729	93.020	72.845
14	76.157	79.468	79.770	96.267	76.157
15	80.096	83.061	83.924	100.670	80.096
16	83.652	85.907	87.926	104.800	83.652
17	86.514	89.054	92.070	108.590	86.514
18	90.783	92.529	96.153	111.430	90.783
19	96.251	97.443	101.500	111.550	96.251
20	102.190	101.580	102.920	110.390	102.190
21	107.350	106.630	107.930	111.470	107.350
22	110.770	109.420	115.030	116.200	110.770
23	111.570	110.650	122.200	119.800	111.570
24	109.970	113.110	127.750	123.460	109.970
25	114.090	117.230	137.700	134.750	114.090
26	121.980	121.480	142.250	144.930	121.980
27	126.010	122.980	149.480	152.810	126.010
28	135.440	131.680	157.180	158.580	135.440
29	146.640	144.190	166.760	164.420	146.640
30	143.410	148.660	174.590	173.220	143.410
31	150.010	155.650	181.450	180.600	150.010
32	162.640	159.570	187.280	188.620	162.640
33	171.660	168.990	191.960	196.220	171.660
34	179.830	177.570	201.550	200.510	179.830
35	187.460	185.880	210.150	208.150	187.460
36	196.760	192.980	216.460	217.760	196.760
37	204.650	197.310	221.160	226.280	204.650
38	206.600	202.120	224.530	231.410	206.600
39	211.830	210.940	232.840	235.590	211.830
40	225.160	222.060	243.110	243.600	225.160
41	232.630	229.170	250.660	251.970	232.630
42	235.600	232.010	253.680	255.730	235.600
43	239.170	239.860	257.620	260.120	239.170
44	246.990	249.520	264.470	265.520	246.990
45	256.720	254.240	271.980	273.690	256.720
46	262.320	257.140	275.400	281.610	262.320
47	267.970	262.620	277.800	282.780	267.970
48	271.860	268.960	280.450	284.050	271.860
49	279.280	278.650	281.520	285.910	279.280
50	284.440	283.320	281.820	282.490	284.440
51	285.930	284.410	282.520	282.650	285.930
52	286.760	287.340	281.580	285.300	286.760
53	287.240	283.810	281.740	287.730	287.240

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZX-EX-O2-30W.IES

CANDELA TABULATION - (Cont.)

54	287.220	281.100	281.490	288.960	287.220
55	289.740	286.810	283.580	288.230	289.740
56	292.300	288.990	289.490	288.240	292.300
57	289.930	291.010	295.340	290.840	289.930
58	288.150	291.750	296.810	294.230	288.150
59	287.230	291.260	296.800	301.190	287.230
60	287.900	292.680	298.680	310.410	287.900
61	294.000	294.570	305.440	315.630	294.000
62	299.750	299.010	319.130	325.720	299.750
63	300.960	308.020	334.580	340.320	300.960
64	302.420	313.340	347.760	352.850	302.420
65	304.660	317.430	352.190	364.500	304.660
66	311.640	330.230	353.720	370.970	311.640
67	325.770	345.390	357.710	373.270	325.770
68	340.680	359.910	364.470	375.280	340.680
69	355.580	370.130	371.430	380.830	355.580
70	363.290	374.960	378.840	387.080	363.290
71	365.060	376.300	387.340	395.040	365.060
72	366.520	377.820	394.320	404.020	366.520
73	371.890	383.620	396.850	411.680	371.890
74	378.840	390.100	394.770	411.980	378.840
75	385.170	398.080	391.990	405.180	385.170
76	394.040	407.320	385.330	395.000	394.040
77	401.650	413.080	376.320	385.970	401.650
78	404.930	409.590	370.190	379.050	404.930
79	404.470	401.620	370.910	376.480	404.470
80	399.660	393.490	375.300	381.420	399.660
81	391.760	385.140	378.690	387.670	391.760
82	380.620	378.920	380.060	389.910	380.620
83	371.590	378.950	377.830	387.430	371.590
84	368.990	383.740	372.720	382.500	368.990
85	373.970	389.290	368.710	378.490	373.970
86	380.830	391.290	364.800	367.330	380.830
87	384.080	388.640	360.370	361.810	384.080
88	381.590	382.480	361.470	351.210	381.590
89	375.650	378.140	368.820	350.850	375.650
90	371.020	374.990	379.220	363.100	371.020
91	368.520	372.370	388.760	371.600	368.520
92	364.510	370.900	392.670	375.080	364.510
93	362.940	375.160	394.000	380.780	362.940
94	369.970	384.680	392.660	375.980	369.970
95	379.480	395.740	387.490	378.200	379.480
96	388.560	403.480	381.990	370.530	388.560
97	394.050	405.550	375.970	358.800	394.050
98	390.780	405.100	371.390	349.760	390.780
99	382.310	401.260	371.110	354.220	382.310
100	366.000	394.370	372.360	359.520	366.000
101	341.970	386.980	373.270	362.180	341.970
102	317.520	378.500	354.230	369.110	317.520
103	291.240	359.550	341.180	357.210	291.240
104	268.930	327.130	320.360	316.980	268.930
105	253.410	304.980	314.760	277.630	253.410
106	233.810	287.910	299.880	247.620	233.810
107	225.880	296.620	270.890	251.010	225.880
108	204.040	289.550	233.060	240.680	204.040
109	184.030	270.540	214.550	228.440	184.030

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZX-EX-O2-30W.IES

CANDELA TABULATION - (Cont.)

110	157.410	208.250	199.340	195.380	157.410
111	136.730	187.750	190.900	156.630	136.730
112	110.290	165.040	176.520	151.930	110.290
113	92.386	167.580	138.970	144.970	92.386
114	68.430	194.130	112.160	141.960	68.430
115	59.056	175.030	92.914	141.070	59.056
116	47.795	173.800	75.770	150.280	47.795
117	52.646	177.230	63.367	120.930	52.646
118	47.184	146.140	46.353	120.130	47.184
119	49.481	120.600	42.834	127.730	49.481
120	51.174	124.500	35.591	132.580	51.174
121	64.515	127.710	29.315	160.760	64.515
122	83.734	134.620	15.376	173.610	83.734
123	93.909	153.530	14.164	169.870	93.909
124	99.701	162.760	13.891	154.450	99.701
125	100.900	154.370	15.490	157.610	100.900
126	107.980	138.450	17.149	160.130	107.980
127	117.820	126.380	19.000	175.730	117.820
128	121.140	117.600	20.985	187.970	121.140
129	122.410	132.790	23.545	182.450	122.410
130	130.840	114.830	26.212	169.490	130.840
131	135.730	102.100	28.917	156.590	135.730
132	136.280	84.372	32.181	132.760	136.280
133	135.510	63.049	34.689	116.520	135.510
134	137.350	44.701	36.334	98.947	137.350
135	137.550	40.868	36.727	83.036	137.550
136	135.230	34.562	35.377	63.500	135.230
137	135.590	27.897	35.955	48.095	135.590
138	139.020	20.188	36.695	38.151	139.020
139	138.670	11.136	35.707	27.481	138.670
140	125.530	9.965	30.952	21.263	125.530
141	116.230	9.754	19.341	17.167	116.230
142	82.453	9.622	9.988	14.072	82.453
143	53.893	9.640	4.831	11.786	53.893
144	22.592	9.241	4.082	10.748	22.592
145	6.179	8.668	4.008	10.147	6.179
146	5.383	7.819	3.965	9.590	5.383
147	5.261	6.512	3.701	9.021	5.261
148	5.191	5.587	3.206	8.335	5.191
149	5.636	4.889	3.074	7.552	5.636
150	3.974	4.205	5.792	6.755	3.974
151	4.264	3.861	15.523	6.012	4.264
152	9.219	3.909	15.294	5.399	9.219
153	24.658	4.074	13.275	4.738	24.658
154	29.694	4.054	9.962	4.117	29.694
155	24.839	3.489	3.565	3.768	24.839
156	16.401	3.063	3.704	3.712	16.401
157	4.094	2.779	2.947	3.578	4.094
158	3.630	2.568	2.654	3.314	3.630
159	3.463	2.538	2.310	2.945	3.463
160	2.431	2.490	2.276	2.854	2.431
161	2.643	2.427	2.269	2.782	2.643
162	2.319	2.371	2.261	2.696	2.319
163	2.305	2.332	2.261	2.687	2.305
164	2.305	2.285	2.312	2.624	2.305
165	2.392	2.254	2.442	2.484	2.392

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZX-EX-O2-30W.IES

CANDELA TABULATION - (Cont.)

166	2.938	2.246	2.818	2.311	2.938
167	3.250	2.206	3.186	2.254	3.250
168	3.459	2.167	3.196	2.207	3.459
169	4.025	2.143	3.054	2.191	4.025
170	4.262	2.143	2.757	2.183	4.262
171	4.231	2.135	2.443	2.167	4.231
172	3.778	2.128	2.270	2.151	3.778
173	3.176	2.128	2.204	2.198	3.176
174	2.584	2.120	2.182	2.356	2.584
175	2.124	2.128	2.648	2.545	2.124
176	2.116	2.144	2.653	2.608	2.116
177	2.116	2.270	2.631	2.624	2.116
178	2.118	2.530	2.624	2.640	2.118
179	2.240	2.671	2.602	2.640	2.240
180	2.575	2.575	2.575	2.575	2.575

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZX-EX-O2-30W.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	30.75	1.10	1.10
0-30	91.07	3.20	3.20
0-40	215.46	7.60	7.60
0-60	677.34	23.70	23.80
0-80	1423.41	49.90	49.90
0-90	1834.59	64.30	64.30
10-90	1829.01	64.10	64.10
20-40	184.72	6.50	6.50
20-50	387.67	13.60	13.60
40-70	795.59	27.90	27.90
60-80	746.07	26.20	26.20
70-80	412.35	14.50	14.50
80-90	411.18	14.40	14.40
90-110	724.73	25.40	25.40
90-120	847.46	29.70	29.70
90-130	942.48	33.00	33.10
90-150	1012.76	35.50	35.50
90-180	1016.99	35.70	35.70
110-180	292.25	10.20	10.20
0-180	2851.58	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	5.58
10-20	25.17
20-30	60.32
30-40	124.40
40-50	202.96
50-60	258.92
60-70	333.71
70-80	412.35
80-90	411.18
90-100	413.97
100-110	310.77
110-120	122.73
120-130	95.02
130-140	59.81
140-150	10.47
150-160	3.27
160-170	0.72
170-180	0.24

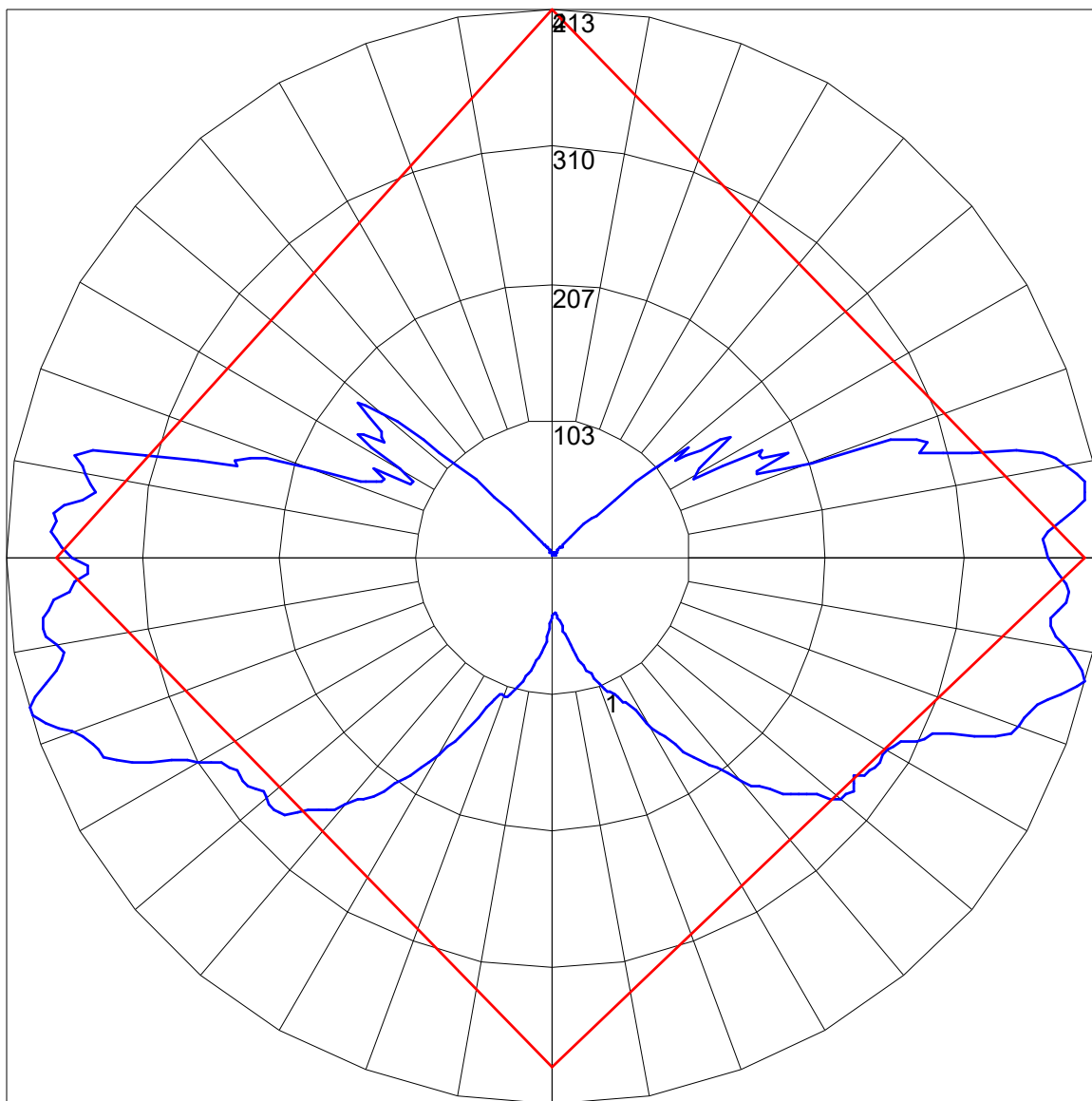
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZX-EX-O2-30W.IES

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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64
1	93	86	79	73	87	80	74	68	69	64	59	59	55	51	49	46	43	39
2	82	71	61	53	76	66	57	50	56	49	43	47	42	37	39	35	31	26
3	73	60	49	41	67	55	46	38	47	39	33	39	33	28	32	27	23	19
4	66	51	41	33	61	48	38	31	40	33	26	34	27	22	28	22	18	14
5	60	45	34	27	55	42	32	25	35	27	21	29	23	18	24	19	14	11
6	55	40	30	22	50	37	28	21	31	24	18	26	20	15	21	16	12	9
7	50	35	26	19	46	33	24	18	28	20	15	23	17	12	19	14	10	7
8	46	32	23	16	43	29	21	15	25	18	13	21	15	11	17	12	8	6
9	43	29	20	14	40	27	19	13	23	16	11	19	13	9	16	11	7	5
10	40	26	18	12	37	24	17	11	21	14	10	18	12	8	15	10	6	4

POLAR GRAPH



Maximum Candela = 413.08 Located At Horizontal Angle = 90, Vertical Angle = 77
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (77) (Through Max. Cd.)