



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZX-EX-O2-40W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] HZX-EX-O2-40W
 [TESTLAB] EVERFINE
 [TESTDATE] 03 June 2025
 [ISSUEDATE] 2025-06-03 10:26:43
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-3000H_V1 SYSTEM
 [MANUFAC] BELUCE CANADA INC.
 [LUMINAIRE] HZX-EX-O2-40W
 [LUMCAT]] HZX-EX-O2-40W
 [LAMP] 3168 LUMENS
 [_SEARCH_SOURCETYPE] LED

CHARACTERISTICS

Lumens Per Lamp	3168 (1 lamp)
Total Lamp Lumens	3168
Luminaire Lumens	3168
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	38.2706
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	5.04
Spacing Criterion (90-270)	4.98
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	32478	27877	29969
55	43971	37175	41398
65	69660	56473	64660
75	135834	109684	128413
85	382282	301022	369967

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZX-EX-O2-40W.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	48.898	48.898	48.898	48.898	48.898	48.898	48.898	48.898	48.898	48.898
1	49.405	48.843	48.552	47.668	48.374	48.673	48.718	48.845	49.307	49.937
2	51.413	50.273	49.083	47.193	48.763	49.137	49.511	49.997	50.633	51.087
3	54.194	52.254	50.447	47.678	50.478	51.020	51.653	52.047	52.473	52.871
4	57.248	55.179	53.253	49.410	52.217	53.102	54.294	54.696	55.322	55.715
5	60.319	58.572	56.221	51.755	54.759	56.303	57.736	57.514	58.916	58.483
6	65.491	63.515	59.864	54.156	57.738	60.391	61.201	60.349	62.757	61.668
7	70.917	69.283	64.538	56.696	61.456	65.297	64.594	64.049	67.010	65.619
8	75.839	74.163	69.299	60.479	66.037	69.846	68.567	68.905	72.311	71.338
9	80.117	79.261	73.440	64.961	71.614	75.528	73.902	75.028	77.677	79.476
10	86.329	84.916	77.030	69.378	78.801	82.258	79.351	80.344	85.246	87.859
11	92.079	90.474	80.916	73.119	88.014	89.127	86.712	85.835	93.534	96.132
12	98.571	97.453	86.454	76.245	94.461	97.667	93.215	90.830	102.520	102.080
13	103.560	104.240	91.740	79.818	102.360	106.530	99.496	94.935	112.220	108.710
14	106.760	112.120	99.635	84.320	111.170	116.410	106.440	99.402	119.050	111.620
15	109.190	119.590	106.680	90.115	118.350	125.470	112.560	102.980	123.210	119.050
16	113.550	127.260	113.090	94.747	126.230	132.390	117.660	106.060	126.120	120.840
17	119.250	135.390	119.350	99.473	129.690	135.000	120.370	109.330	130.610	125.680
18	125.680	142.400	125.590	102.160	132.540	138.390	119.100	112.340	132.480	129.940
19	128.040	148.810	127.430	107.270	135.710	144.670	123.200	112.010	131.130	129.170
20	128.310	145.250	130.100	110.230	131.690	142.420	123.440	109.440	131.460	126.320
21	125.680	142.710	122.150	110.590	128.080	141.290	118.930	108.080	137.480	122.770
22	136.110	142.690	119.880	113.640	131.100	145.500	122.210	109.150	146.790	132.880
23	146.700	149.100	129.130	116.510	138.310	153.650	133.270	115.330	156.110	142.290
24	147.870	157.170	136.930	121.370	141.250	162.830	140.270	117.110	153.480	149.420
25	160.530	162.940	142.310	120.500	147.940	172.000	139.370	128.730	166.310	153.150
26	170.000	174.260	146.430	125.000	159.700	176.380	149.430	134.700	169.950	160.920
27	169.080	183.660	158.240	132.820	170.990	183.050	152.080	143.660	178.630	168.450
28	177.350	193.960	168.970	135.840	173.970	193.620	155.410	148.110	190.340	185.060
29	197.140	207.760	172.670	140.640	178.450	206.270	164.800	154.990	208.220	197.040
30	209.720	221.820	184.810	146.950	191.010	222.400	181.550	163.840	219.150	207.710
31	220.950	231.620	192.500	159.960	203.030	240.770	191.070	177.510	230.880	217.140
32	231.590	241.420	202.580	167.580	216.400	250.530	195.480	187.600	237.840	231.320
33	238.340	251.670	214.050	173.390	228.640	259.640	200.050	197.030	244.810	243.820
34	255.040	265.740	223.290	177.810	237.010	273.260	211.330	204.360	256.330	249.350
35	258.280	277.630	231.700	186.930	245.340	289.040	223.360	208.350	259.030	255.230
36	260.950	283.090	235.980	193.710	250.320	296.140	222.400	214.560	271.370	261.690
37	275.450	290.630	237.320	197.450	254.800	305.200	225.980	222.530	282.630	273.390
38	287.140	299.680	247.030	209.590	264.380	314.600	238.280	230.570	293.760	285.110
39	296.370	314.190	261.250	218.270	276.860	326.740	246.930	239.890	299.410	293.320
40	300.860	322.110	272.060	222.370	287.310	337.200	251.160	243.110	303.690	297.130
41	308.740	323.880	275.260	224.500	291.550	340.100	253.820	249.870	315.520	307.120
42	323.900	328.600	277.840	230.870	297.610	343.920	261.200	260.920	329.700	319.690
43	336.210	335.110	287.160	240.450	310.660	351.220	270.830	266.100	335.910	329.190
44	345.940	350.050	299.120	248.240	320.000	364.270	278.450	270.080	338.270	331.030
45	353.680	353.520	303.570	253.140	326.350	376.440	281.740	275.410	343.150	333.490
46	358.580	354.710	304.560	254.150	329.350	380.210	284.150	283.900	353.500	339.680
47	370.170	362.050	312.270	256.970	338.980	383.690	293.560	294.160	364.890	347.680
48	378.430	369.190	320.480	265.610	348.990	387.170	301.980	297.210	368.620	358.230
49	386.520	375.840	327.130	272.180	356.360	396.740	308.600	300.840	370.140	360.320
50	388.260	379.930	332.720	274.830	359.980	402.580	309.240	300.980	370.210	355.420
51	385.130	374.370	330.220	277.710	361.810	402.140	306.140	299.910	369.740	357.770
52	386.550	369.720	324.910	281.550	361.700	395.710	304.650	301.440	371.820	357.790
53	387.060	369.140	322.120	284.070	358.940	395.500	303.140	305.200	372.860	360.730

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZX-EX-O2-40W.IES

CANDELA TABULATION - (Cont.)

54	386.900	372.460	321.360	287.650	361.270	394.380	306.860	311.510	373.420	363.100
55	388.410	375.670	328.380	288.050	365.680	397.040	311.950	312.970	376.140	366.040
56	389.230	380.400	334.070	289.340	366.970	399.350	312.050	310.770	380.090	366.480
57	391.920	380.010	334.380	288.120	367.840	402.100	313.720	310.100	386.380	367.230
58	396.770	378.060	333.360	288.180	367.620	403.800	314.150	308.690	392.270	372.520
59	405.170	381.040	332.290	292.730	369.540	403.230	319.160	310.850	397.410	376.030
60	411.600	381.550	333.280	300.770	373.010	408.700	326.170	316.370	396.370	379.960
61	410.500	386.770	334.820	304.090	377.930	411.730	325.590	327.350	396.470	385.260
62	411.240	390.550	337.300	303.560	387.820	411.580	326.890	336.400	404.660	397.760
63	420.090	398.950	344.850	302.510	396.570	414.610	332.140	346.550	418.580	414.250
64	437.270	414.310	355.430	304.410	405.000	429.930	343.200	359.140	437.080	431.440
65	453.380	431.080	367.550	308.860	420.840	448.480	360.490	372.400	456.590	444.560
66	469.470	449.830	381.530	324.850	437.960	464.540	380.680	387.800	470.100	446.900
67	480.170	464.200	395.620	341.200	454.980	480.590	394.610	398.080	476.310	449.060
68	484.640	472.310	402.570	354.630	468.950	492.210	397.500	405.910	480.380	455.010
69	488.980	477.440	407.480	361.970	473.850	495.230	399.120	407.460	486.850	463.910
70	496.550	483.280	412.390	365.860	474.440	498.740	402.690	409.780	495.280	469.800
71	504.130	486.750	417.920	371.650	478.300	503.820	408.270	416.930	505.790	479.210
72	513.420	493.910	421.540	379.510	481.820	511.010	415.670	423.280	516.560	489.230
73	523.810	504.930	430.440	386.700	487.960	518.870	425.590	428.490	527.430	499.280
74	534.110	515.220	436.480	392.940	500.110	530.570	435.480	435.600	533.000	503.160
75	541.420	525.070	437.190	401.370	511.840	540.900	441.130	438.610	531.790	500.130
76	539.100	528.660	437.870	406.770	520.000	544.150	440.690	434.270	530.360	492.330
77	535.050	524.180	433.080	411.080	520.390	542.790	434.190	426.130	524.980	481.950
78	525.010	515.420	424.600	412.750	511.310	535.950	428.910	416.690	512.600	470.120
79	512.930	504.270	413.450	413.120	500.560	527.300	422.770	410.300	502.340	462.610
80	505.180	493.780	403.770	407.840	490.470	515.710	414.770	407.410	499.380	463.620
81	502.480	487.630	398.430	398.460	483.540	508.210	415.020	408.720	503.810	469.510
82	507.400	488.750	397.180	392.250	481.830	507.530	419.570	412.610	507.030	475.620
83	512.450	495.870	400.800	389.640	486.790	509.790	422.230	416.110	509.480	478.510
84	516.190	498.620	404.370	390.840	492.920	514.910	425.110	415.920	508.920	474.180
85	513.110	499.060	404.040	393.040	496.580	517.630	426.110	399.010	505.600	469.170
86	506.900	493.170	400.390	392.820	492.560	515.410	421.870	387.490	499.750	464.710
87	498.600	484.870	391.040	390.020	483.710	509.320	416.800	382.640	494.170	462.090
88	493.010	477.470	382.610	385.830	479.100	502.530	408.600	380.860	489.560	456.490
89	488.590	471.260	377.670	379.760	473.050	497.470	402.340	378.530	484.710	453.360
90	487.250	466.260	373.730	373.900	468.500	491.780	397.280	385.930	488.160	460.420
91	497.160	467.120	372.690	370.040	464.850	488.950	397.630	389.080	498.540	470.150
92	492.480	476.060	379.340	368.430	470.890	496.050	405.560	396.800	514.320	483.280
93	498.640	489.000	384.670	375.470	480.520	505.850	415.910	408.080	525.450	485.780
94	505.180	501.540	391.460	385.560	494.370	519.740	427.550	405.470	528.740	463.410
95	530.210	507.970	399.110	396.870	503.550	530.170	434.620	404.910	522.950	439.110
96	508.300	509.210	396.030	403.460	508.290	535.300	436.910	418.560	510.310	422.600
97	515.320	506.770	385.980	406.430	510.660	534.910	405.060	404.020	474.000	388.410
98	495.270	502.310	362.700	404.790	507.860	527.160	362.750	386.970	446.360	362.840
99	462.590	492.730	323.570	398.850	500.450	495.290	321.100	378.770	418.770	349.820
100	407.180	480.400	291.590	387.090	462.320	441.770	317.140	347.400	404.200	343.460
101	386.510	450.200	275.960	339.690	424.070	392.680	285.830	325.310	390.620	336.120
102	367.880	419.920	235.490	309.020	372.450	373.880	256.470	310.440	379.980	325.800
103	370.690	381.070	218.200	284.690	356.890	413.740	245.530	306.550	353.030	308.100
104	345.650	363.500	201.020	295.760	360.300	405.060	223.250	288.300	316.160	285.540
105	321.930	354.220	157.190	300.670	351.480	400.720	191.640	268.370	287.870	258.120
106	294.020	316.100	111.780	292.140	334.560	340.340	171.900	247.220	268.880	237.820
107	263.000	265.640	87.424	246.490	293.400	312.500	158.540	213.600	253.610	221.570
108	233.780	231.250	70.765	223.940	277.410	285.810	136.520	187.050	223.560	205.350
109	214.260	212.730	30.437	213.190	246.070	276.070	107.840	164.640	191.630	188.530

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZX-EX-O2-40W.IES

CANDELA TABULATION - (Cont.)

110	195.500	183.240	18.697	208.360	224.650	246.750	115.610	141.540	156.460	152.030
111	167.800	138.370	25.230	206.040	219.690	196.130	133.380	140.010	116.540	116.560
112	136.260	107.260	26.979	176.290	169.980	145.320	134.160	124.830	104.110	102.380
113	109.090	83.009	29.502	134.000	124.220	111.240	132.330	115.650	91.558	79.503
114	88.619	64.682	21.824	111.180	115.560	111.840	149.940	78.293	64.835	53.773
115	64.340	37.889	30.209	103.550	79.430	142.310	174.920	64.201	28.857	28.516
116	34.425	21.339	40.382	114.070	77.769	169.150	186.920	64.004	21.290	18.003
117	25.094	21.638	35.843	117.720	69.011	175.650	193.810	39.309	21.617	16.594
118	33.495	32.078	47.268	121.970	57.038	193.920	214.910	25.551	22.251	15.609
119	37.545	21.951	60.140	136.930	54.485	196.380	206.320	23.889	33.474	14.232
120	46.956	12.386	55.976	130.050	42.734	168.390	191.550	25.111	46.185	13.517
121	56.753	12.419	49.932	105.200	31.961	137.440	179.250	28.189	60.616	13.079
122	74.676	12.601	43.148	106.640	16.110	142.560	176.430	30.765	72.292	12.397
123	89.534	12.433	42.096	119.690	24.509	136.020	163.880	33.407	82.078	12.206
124	96.165	11.743	40.372	123.980	25.160	145.850	149.810	36.470	94.862	12.147
125	105.020	10.082	33.751	139.460	29.706	137.280	135.850	31.508	96.903	12.087
126	112.030	9.421	25.048	129.380	49.650	103.040	115.670	25.426	106.620	11.891
127	128.470	9.160	16.066	121.030	34.539	83.935	99.221	14.449	80.662	11.364
128	147.460	9.049	14.164	107.680	12.084	67.669	63.041	12.629	99.610	10.808
129	164.080	9.039	13.408	90.519	9.527	55.302	58.565	12.025	100.550	10.542
130	177.400	8.741	13.091	81.667	8.582	47.395	43.984	11.595	104.040	10.971
131	181.870	8.659	12.471	71.759	8.075	38.025	14.681	10.925	148.450	8.527
132	182.190	8.419	11.854	61.855	8.709	14.801	13.318	10.647	182.700	10.817
133	185.710	8.062	11.004	41.188	8.014	10.677	11.577	10.373	183.270	15.128
134	191.170	7.716	9.809	27.198	6.560	10.320	10.876	11.459	185.940	18.914
135	199.330	7.823	9.017	26.088	6.448	10.400	9.389	11.248	190.600	26.806
136	208.310	8.007	7.973	22.551	6.659	10.325	8.270	9.708	205.840	31.043
137	203.510	8.067	7.169	12.978	6.963	9.743	6.651	8.648	204.730	20.111
138	195.410	7.538	6.737	9.623	7.384	9.332	6.151	7.972	180.900	10.361
139	182.990	6.837	6.499	9.472	7.211	9.354	5.744	7.319	124.510	8.219
140	131.890	6.298	6.137	8.888	7.451	8.282	6.232	6.873	75.081	7.131
141	80.544	5.844	5.551	8.012	7.890	7.078	7.469	6.517	29.674	5.857
142	36.072	5.509	5.447	7.086	7.198	5.928	7.907	5.807	6.787	5.392
143	10.164	5.222	5.775	6.259	6.718	5.097	7.980	5.176	5.677	4.817
144	6.359	4.932	6.059	5.466	6.483	4.417	7.719	4.699	5.525	5.419
145	6.111	4.768	5.739	4.631	6.187	4.091	7.241	4.516	5.144	6.169
146	5.708	4.760	5.425	4.155	5.546	4.003	6.320	4.953	5.691	4.215
147	5.406	4.708	5.249	3.941	4.983	3.973	5.652	20.691	5.579	5.768
148	4.737	4.734	4.814	3.833	4.773	3.904	5.083	32.864	4.542	26.348
149	4.405	12.486	4.295	3.688	4.924	4.049	4.402	34.795	8.470	43.970
150	5.195	22.982	4.002	3.624	5.083	4.065	3.955	33.210	35.169	56.160
151	26.928	24.942	3.793	3.588	5.068	4.242	3.601	25.468	47.399	51.208
152	36.950	24.372	3.682	3.536	4.991	4.120	3.493	11.396	52.203	27.580
153	38.075	22.928	3.600	3.450	4.903	4.012	3.438	4.985	40.354	6.231
154	30.122	9.498	3.540	3.363	4.615	3.858	3.400	4.838	16.230	4.425
155	21.374	4.931	3.451	3.299	4.326	3.765	3.346	4.168	4.714	4.491
156	4.971	4.553	3.399	3.277	4.112	3.649	3.307	3.570	5.334	3.594
157	5.147	4.115	3.362	3.234	3.924	3.558	3.268	3.289	4.390	3.336
158	4.690	3.479	3.318	3.220	3.717	3.511	3.214	3.145	3.525	3.173
159	3.535	3.261	3.274	3.212	3.565	3.419	3.184	3.105	3.378	3.142
160	3.480	3.171	3.222	3.198	3.437	3.358	3.184	3.112	3.123	3.141
161	3.147	3.164	3.149	3.112	3.375	3.311	3.184	3.135	3.093	3.149
162	3.108	3.164	3.090	3.119	3.307	3.310	3.196	3.227	3.144	3.372
163	3.100	3.195	3.052	3.134	3.268	3.357	3.509	3.327	3.715	3.663
164	3.392	3.306	3.052	3.154	3.185	3.349	3.617	3.541	4.345	3.867
165	3.932	3.329	3.082	3.118	3.109	3.341	3.888	3.740	4.668	4.240

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZX-EX-O2-40W.IES

CANDELA TABULATION - (Cont.)

166	4.107	3.442	3.176	3.061	3.040	3.326	3.980	3.905	5.465	4.686
167	5.273	3.600	3.406	3.032	3.018	3.318	3.979	3.982	6.163	4.947
168	6.019	3.696	3.540	2.995	2.980	3.318	3.909	3.998	6.267	5.089
169	6.198	3.681	3.569	2.945	2.980	3.318	3.728	3.817	6.087	4.853
170	5.473	3.599	3.474	2.881	2.965	3.218	3.460	3.508	5.216	4.256
171	4.826	3.411	3.327	2.851	2.949	3.036	3.206	3.114	4.370	3.774
172	4.213	3.171	3.173	2.787	2.926	3.026	3.051	2.928	3.657	3.146
173	3.635	2.969	3.045	2.743	2.873	2.980	2.937	2.920	2.971	2.903
174	3.065	2.924	2.904	2.678	2.850	2.972	2.937	2.919	2.987	2.894
175	2.972	2.901	2.875	2.657	2.842	2.941	2.937	2.919	3.002	2.894
176	2.949	2.872	2.867	2.650	2.842	2.925	2.936	2.927	2.987	2.901
177	2.919	2.864	2.853	2.649	2.827	2.902	2.898	2.927	2.979	2.909
178	2.911	2.864	2.838	2.599	2.827	2.879	2.867	2.935	2.941	2.909
179	2.911	2.864	2.823	2.577	2.827	2.841	2.805	2.873	2.888	2.894
180	2.892	2.892	2.892	2.892	2.892	2.892	2.892	2.892	2.892	2.892

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	48.898	48.898	48.898	48.898	48.898	48.898	48.898
1	50.231	50.233	51.010	50.989	50.735	50.259	49.405
2	51.892	52.333	53.350	53.507	53.326	52.777	51.413
3	54.257	54.949	55.894	56.330	56.121	55.749	54.194
4	56.577	57.208	59.028	59.969	59.694	59.309	57.248
5	59.129	59.916	62.455	63.760	63.492	63.289	60.319
6	61.723	63.461	65.857	69.425	68.710	68.435	65.491
7	64.082	68.320	70.098	74.836	73.804	75.135	70.917
8	66.800	74.548	76.809	81.992	79.121	82.066	75.839
9	70.794	80.635	85.628	90.418	84.891	88.375	80.117
10	75.846	85.794	93.474	99.166	90.513	94.621	86.329
11	81.945	90.337	99.772	105.810	96.310	98.641	92.079
12	90.001	96.184	104.600	113.240	99.154	103.310	98.571
13	98.635	100.700	111.480	122.230	105.140	108.460	103.560
14	105.850	104.150	118.030	127.650	108.040	111.190	106.760
15	111.260	108.950	127.020	133.170	115.900	115.800	109.190
16	116.010	112.730	132.960	140.680	118.950	120.580	113.550
17	118.940	114.870	141.080	150.050	125.080	124.040	119.250
18	118.610	115.460	142.600	153.860	127.040	130.430	125.680
19	116.590	114.360	142.580	150.800	121.990	136.230	128.040
20	114.580	119.640	136.450	146.900	121.800	127.480	128.310
21	118.030	128.680	135.470	149.060	123.570	121.330	125.680
22	131.680	129.910	144.380	161.480	137.030	133.590	136.110
23	136.150	136.440	147.340	173.090	153.390	129.920	146.700
24	146.640	145.950	153.210	181.410	155.510	130.700	147.870
25	159.640	150.190	170.290	185.610	163.190	148.720	160.530
26	167.180	152.750	184.640	190.880	164.900	170.580	170.000
27	175.700	167.150	190.650	199.800	173.020	164.990	169.080
28	185.920	175.300	198.860	217.810	183.870	176.640	177.350
29	193.140	184.310	206.860	231.690	194.140	178.810	197.140
30	199.370	192.590	216.610	238.830	205.450	185.570	209.720
31	206.160	200.790	226.990	246.020	213.130	201.970	220.950
32	220.950	208.370	240.180	258.560	223.310	210.270	231.590
33	226.750	211.170	251.240	274.210	234.860	218.760	238.340
34	229.020	217.030	251.390	281.300	237.000	225.810	255.040
35	235.000	225.200	259.420	287.730	238.560	229.290	258.280
36	241.020	230.930	271.570	299.000	251.760	235.130	260.950

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZX-EX-O2-40W.IES

CANDELA TABULATION - (Cont.)

37	249.890	232.300	286.030	311.350	261.200	246.700	275.450
38	253.150	235.970	296.830	328.010	271.050	255.480	287.140
39	255.120	245.890	300.270	331.230	271.440	260.540	296.370
40	258.780	255.890	306.940	332.070	272.870	266.610	300.860
41	266.920	260.060	317.300	338.340	284.350	277.500	308.740
42	274.640	263.610	326.090	350.750	296.260	283.520	323.900
43	279.170	267.410	330.760	360.570	305.490	283.820	336.210
44	277.640	274.480	339.000	363.890	309.230	290.680	345.940
45	283.810	283.700	347.810	366.730	312.240	299.600	353.680
46	293.470	287.560	356.680	372.690	318.500	307.840	358.580
47	301.250	290.790	365.170	384.360	327.090	317.280	370.170
48	303.900	292.950	366.450	391.630	330.240	319.690	378.430
49	298.570	293.930	368.750	385.480	329.470	322.180	386.520
50	295.010	294.040	360.850	380.120	323.980	321.650	388.260
51	294.660	295.880	361.950	378.990	322.300	317.380	385.130
52	299.640	296.080	361.640	386.090	324.300	317.630	386.550
53	303.910	294.130	368.940	390.080	327.620	323.550	387.060
54	308.910	292.640	371.140	393.790	329.810	325.590	386.900
55	311.450	296.970	370.820	395.330	327.010	324.960	388.410
56	309.990	299.800	372.490	395.540	327.440	324.510	389.230
57	310.690	302.670	374.760	392.910	329.700	324.200	391.920
58	312.250	301.430	377.690	400.860	333.570	322.630	396.770
59	315.810	300.160	384.390	402.720	341.620	325.680	405.170
60	324.780	300.590	394.690	401.580	337.770	334.520	411.600
61	333.560	305.270	402.900	408.340	341.390	344.720	410.500
62	348.720	317.790	412.400	420.290	350.720	350.500	411.240
63	363.190	333.370	433.370	437.480	364.070	360.780	420.090
64	374.370	347.020	447.120	458.000	380.840	372.280	437.270
65	384.700	356.400	458.070	476.140	397.560	387.090	453.380
66	391.200	360.370	467.480	486.600	404.220	402.030	469.470
67	394.620	364.520	470.700	491.710	405.690	411.740	480.170
68	398.960	371.470	472.540	494.620	407.570	418.390	484.640
69	406.550	378.510	476.620	503.340	414.400	418.900	488.980
70	414.910	383.660	484.590	509.570	420.840	424.290	496.550
71	421.990	389.930	492.040	520.810	429.220	431.670	504.130
72	433.380	395.240	502.370	531.510	438.840	439.390	513.420
73	440.150	398.400	513.120	541.730	447.280	445.520	523.810
74	442.040	399.130	516.740	544.130	449.220	452.160	534.110
75	437.520	399.330	511.130	541.650	444.160	452.470	541.420
76	428.110	392.970	502.120	533.670	437.800	443.100	539.100
77	418.610	384.170	491.520	524.800	431.170	434.680	535.050
78	410.390	376.250	480.080	512.460	421.200	425.630	525.010
79	407.620	371.920	475.970	504.280	415.450	418.100	512.930
80	410.970	372.180	478.980	504.810	417.410	415.460	505.180
81	416.860	373.550	487.170	510.610	424.250	419.030	502.480
82	422.760	373.630	490.580	516.060	427.830	426.400	507.400
83	424.100	372.470	490.490	518.620	430.880	427.880	512.450
84	420.320	367.140	485.560	514.780	427.670	425.530	516.190
85	414.550	361.470	478.470	508.970	420.630	416.870	513.110
86	408.280	356.450	472.720	501.470	413.260	410.590	506.900
87	403.860	350.890	468.160	495.880	406.960	403.680	498.600
88	399.710	347.800	462.990	488.830	399.820	397.660	493.010
89	403.520	353.130	465.700	488.610	398.030	394.710	488.590
90	414.240	361.900	474.270	497.220	403.720	401.670	487.250
91	426.170	372.850	485.900	509.880	413.920	411.640	497.160
92	439.020	377.880	497.840	523.200	426.090	424.130	492.480

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZX-EX-O2-40W.IES

CANDELA TABULATION - (Cont.)

93	445.370	380.660	503.100	529.580	432.340	432.710	498.640
94	447.840	379.890	504.780	532.250	436.080	436.830	505.180
95	433.460	375.190	503.760	529.000	433.900	436.020	530.210
96	418.790	368.750	497.260	523.600	430.440	433.770	508.300
97	385.650	353.960	490.090	513.900	421.570	420.040	515.320
98	361.500	314.130	478.110	504.010	380.770	401.150	495.270
99	340.840	289.440	467.840	489.890	333.220	377.410	462.590
100	303.680	274.480	452.290	457.710	296.930	361.730	407.180
101	290.950	293.100	415.160	425.500	290.410	335.530	386.510
102	282.680	299.250	384.250	386.950	262.350	316.790	367.880
103	253.290	281.880	366.200	382.070	224.930	309.700	370.690
104	213.490	236.070	383.310	370.180	213.530	299.630	345.650
105	185.250	211.780	369.080	336.130	185.980	260.990	321.930
106	151.340	194.870	336.170	267.870	152.250	211.860	294.020
107	126.600	188.220	266.400	238.710	108.040	181.550	263.000
108	125.410	161.000	243.460	248.250	81.640	164.460	233.780
109	129.880	127.140	220.720	269.300	55.794	150.070	214.260
110	121.040	103.540	228.380	250.650	46.143	108.360	195.500
111	110.580	83.503	217.670	213.770	76.719	83.369	167.800
112	114.440	88.869	205.530	154.630	98.812	67.830	136.260
113	114.130	113.230	182.380	107.180	101.260	60.255	109.090
114	110.660	124.820	143.200	79.907	97.055	36.870	88.619
115	93.783	127.950	92.661	66.987	103.040	24.375	64.340
116	100.140	140.010	93.111	67.722	95.496	23.488	34.425
117	108.470	128.060	133.310	72.479	93.280	25.858	25.094
118	97.686	106.710	150.270	81.558	115.990	23.200	33.495
119	90.282	115.490	174.500	80.293	106.550	19.964	37.545
120	85.305	114.190	205.510	39.842	99.061	16.015	46.956
121	81.874	123.100	189.300	38.232	94.837	21.275	56.753
122	73.294	122.150	172.630	36.120	81.739	25.865	74.676
123	64.254	107.740	169.770	49.503	65.256	25.456	89.534
124	60.102	96.564	171.110	79.808	57.741	19.487	96.165
125	52.179	86.073	188.680	78.916	56.211	13.426	105.020
126	44.853	66.942	193.900	75.928	54.727	9.760	112.030
127	38.643	51.058	186.480	65.323	52.316	9.830	128.470
128	35.664	48.490	177.790	52.305	48.346	9.875	147.460
129	30.172	19.915	159.090	39.088	42.314	9.791	164.080
130	26.284	33.294	143.310	22.974	36.173	9.859	177.400
131	13.943	31.385	123.580	15.117	19.934	9.740	181.870
132	11.415	24.519	102.910	13.257	12.495	9.490	182.190
133	10.285	20.986	84.305	13.231	11.649	9.400	185.710
134	9.185	18.611	63.697	13.461	10.701	9.711	191.170
135	7.766	17.191	49.430	13.712	9.801	10.179	199.330
136	7.016	14.769	35.434	13.756	9.118	17.369	208.310
137	6.023	12.760	26.298	14.103	8.345	12.842	203.510
138	5.431	12.216	19.882	14.005	7.591	7.746	195.410
139	5.008	11.585	15.508	13.267	6.683	6.851	182.990
140	4.897	10.985	14.719	12.391	6.369	6.353	131.890
141	5.242	10.337	14.373	11.359	6.537	6.090	80.544
142	5.750	9.595	13.653	10.414	6.745	5.763	36.072
143	5.831	9.090	12.980	9.666	6.754	5.307	10.164
144	5.834	8.547	12.375	9.145	6.708	5.047	6.359
145	5.572	7.783	11.805	8.501	6.523	5.797	6.111
146	5.019	7.058	11.251	7.785	5.752	4.630	5.708
147	4.293	6.518	10.668	7.064	5.376	4.780	5.406
148	3.747	6.092	9.947	6.440	5.170	13.467	4.737

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZX-EX-O2-40W.IES

CANDELA TABULATION - (Cont.)

149	3.583	5.637	9.242	6.013	4.491	24.322	4.405
150	3.480	5.191	8.507	5.481	4.098	32.014	5.195
151	3.294	4.743	7.867	5.042	3.895	27.966	26.928
152	3.199	4.170	7.309	4.748	3.764	22.711	36.950
153	3.125	3.817	6.698	4.502	3.649	13.377	38.075
154	3.052	3.639	6.090	4.171	3.526	5.354	30.122
155	2.977	3.127	5.586	3.878	3.439	5.334	21.374
156	2.904	3.033	4.707	3.694	3.346	4.695	4.971
157	2.874	3.025	4.412	3.510	3.292	3.633	5.147
158	2.830	3.032	3.997	3.426	3.239	3.457	4.690
159	2.793	3.104	3.639	3.410	3.153	3.081	3.535
160	2.786	3.298	3.567	3.410	3.122	3.081	3.480
161	2.793	3.659	3.460	3.410	3.068	3.105	3.147
162	2.886	3.710	3.361	3.411	3.045	3.143	3.108
163	3.113	3.711	3.254	3.418	3.029	3.331	3.100
164	3.244	3.661	3.141	3.379	3.121	3.540	3.392
165	3.288	3.603	3.057	3.341	3.251	3.829	3.932
166	3.288	3.531	2.980	3.287	3.538	4.076	4.107
167	3.280	3.437	2.942	3.241	3.639	4.298	5.273
168	3.229	3.293	2.911	3.202	3.609	4.289	6.019
169	3.072	3.126	2.904	3.162	3.411	4.190	6.198
170	2.859	2.918	2.881	3.048	3.232	3.986	5.473
171	2.712	2.645	2.881	2.925	3.100	3.674	4.826
172	2.720	2.571	2.850	2.856	2.901	3.265	4.213
173	2.749	2.563	2.812	2.825	2.844	2.865	3.635
174	2.771	2.563	2.797	2.810	2.821	2.827	3.065
175	2.771	2.563	2.789	2.810	2.828	2.827	2.972
176	2.771	2.549	2.789	2.810	2.805	2.827	2.949
177	2.771	2.548	2.797	2.779	2.782	2.827	2.919
178	2.771	2.548	2.797	2.779	2.782	2.827	2.911
179	2.771	2.548	2.804	2.779	2.782	2.827	2.911
180	2.892	2.892	2.892	2.892	2.892	2.892	2.892

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZX-EX-O2-40W.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	39.00	1.20	1.20
0-30	112.52	3.60	3.60
0-40	266.86	8.40	8.40
0-60	823.66	26.00	26.00
0-80	1717.47	54.20	54.20
0-90	2204.09	69.60	69.60
10-90	2197.66	69.40	69.40
20-40	227.86	7.20	7.20
20-50	474.07	15.00	15.00
40-70	958.75	30.30	30.30
60-80	893.81	28.20	28.20
70-80	491.86	15.50	15.50
80-90	486.62	15.40	15.40
90-110	763.85	24.10	24.10
90-120	862.08	27.20	27.20
90-130	923.83	29.20	29.20
90-150	958.51	30.30	30.30
90-180	963.46	30.40	30.40
110-180	199.61	6.30	6.30
0-180	3167.55	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	6.44
10-20	32.56
20-30	73.52
30-40	154.34
40-50	246.21
50-60	310.60
60-70	401.94
70-80	491.86
80-90	486.62
90-100	480.20
100-110	283.64
110-120	98.23
120-130	61.75
130-140	28.86
140-150	5.82
150-160	3.67
160-170	0.99
170-180	0.29

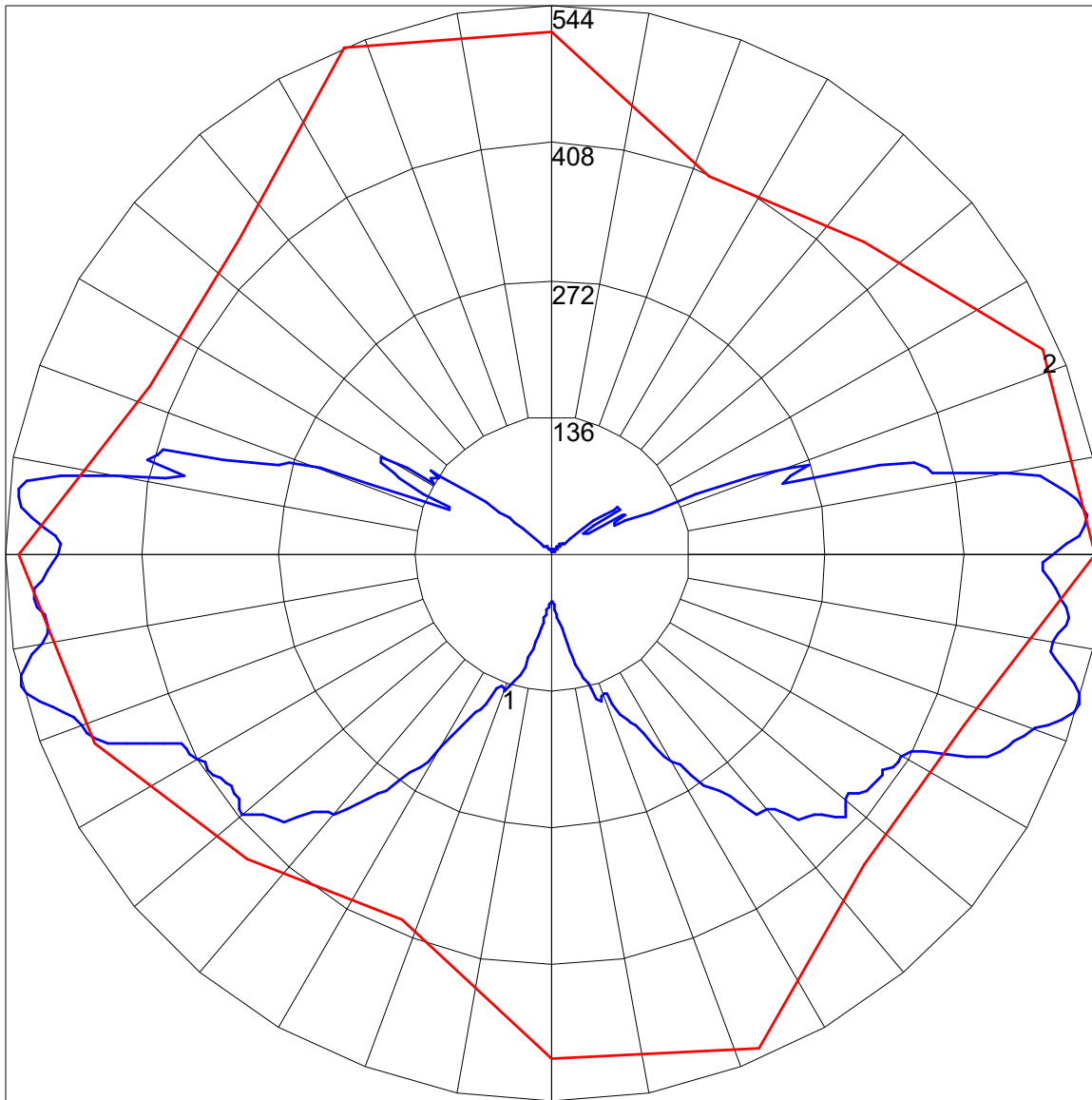
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZX-EX-O2-40W.IES

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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	94	86	79	73	88	81	74	69	71	65	61	61	57	53	53	50	47	42
2	82	71	61	53	77	66	57	50	57	50	44	49	44	38	42	37	33	29
3	73	60	49	41	68	56	46	38	48	40	34	41	35	29	35	29	25	21
4	66	51	40	32	61	48	38	30	41	33	26	35	28	23	29	24	19	16
5	60	45	34	26	55	42	32	25	36	28	21	31	24	18	26	20	15	12
6	55	39	29	22	51	37	27	20	32	24	18	27	20	15	23	17	13	10
7	50	35	25	18	47	33	24	17	28	21	15	24	18	13	20	15	11	8
8	47	32	22	16	43	30	21	15	26	18	13	22	16	11	19	13	9	7
9	43	29	20	14	40	27	18	13	23	16	11	20	14	9	17	12	8	6
10	40	26	18	12	37	24	17	11	21	14	10	18	12	8	16	11	7	5

POLAR GRAPH



Maximum Candela = 544.15 Located At Horizontal Angle = 112.5, Vertical Angle = 76
1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (76) (Through Max. Cd.)