



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZX-EX-D3-100W-5000K-D120.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] HZX-EX-D3-100W-5000K-D120
 [TESTLAB] EVERFINE
 [TESTDATE] 28 October 2024
 [ISSUEDATE] 2024-10-28 16:11:16
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-3000H_V1 SYSTEM
 [MANUFAC] BELUCE CANADA INC.
 [LUMINAIRE] HZX-EX-D3-100W-5000K-D120
 [LUMCAT] HZX-EX-D3-100W-5000K-D120
 [LAMP] 13712 LUMENS
 [_SEARCH_SOURCETYPE] LED

CHARACTERISTICS

Lumens Per Lamp	13712 (1 lamp)
Total Lamp Lumens	13712
Luminaire Lumens	13712
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	96.7831
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.57 m
Luminous Width (90-270)	0.24 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	35093	35427	35761
55	32503	32163	31823
65	25456	25487	25518
75	14119	13737	13355
85	1672	1999	2327

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CANDELA TABULATION

	<u>0</u>	<u>90</u>	<u>180</u>	<u>270</u>	<u>360</u>
0	5351.500	5351.500	5351.500	5351.500	5351.500
1	5349.300	5351.500	5354.400	5351.500	5349.300
2	5345.800	5351.600	5348.000	5346.500	5345.800
3	5347.200	5354.400	5347.200	5344.300	5347.200
4	5341.300	5349.300	5341.500	5343.600	5341.300
5	5335.500	5347.200	5335.700	5336.400	5335.500
6	5329.000	5346.400	5332.700	5329.100	5329.000
7	5320.300	5341.200	5326.100	5321.900	5320.300
8	5303.600	5330.400	5316.800	5316.000	5303.600
9	5293.900	5323.900	5304.500	5298.600	5293.900
10	5278.100	5318.800	5291.300	5280.400	5278.100
11	5262.700	5301.300	5274.700	5263.000	5262.700
12	5247.600	5286.700	5261.600	5244.300	5247.600
13	5227.800	5272.200	5246.400	5226.800	5227.800
14	5206.200	5255.300	5225.400	5206.500	5206.200
15	5174.700	5237.300	5205.700	5181.800	5174.700
16	5138.400	5220.500	5180.300	5152.600	5138.400
17	5097.900	5194.200	5146.300	5128.800	5097.900
18	5047.600	5170.200	5102.100	5100.300	5047.600
19	4991.100	5143.600	5046.100	5076.400	4991.100
20	4923.600	5111.400	4982.500	5045.900	4923.600
21	4854.200	5084.300	4915.300	5010.200	4854.200
22	4799.800	5051.600	4842.300	4970.000	4799.800
23	4745.500	5008.700	4776.500	4927.700	4745.500
24	4693.400	4938.800	4717.900	4857.800	4693.400
25	4649.100	4846.000	4666.400	4763.200	4649.100
26	4610.100	4750.600	4626.000	4655.000	4610.100
27	4572.600	4655.200	4587.400	4551.200	4572.600
28	4528.300	4553.300	4544.200	4446.900	4528.300
29	4486.100	4469.500	4499.700	4356.200	4486.100
30	4438.000	4415.500	4458.700	4295.400	4438.000
31	4390.900	4367.500	4413.800	4249.300	4390.900
32	4342.200	4321.800	4365.000	4200.500	4342.200
33	4293.400	4278.700	4319.000	4149.100	4293.400
34	4243.800	4228.100	4267.300	4101.400	4243.800
35	4187.000	4176.500	4214.400	4049.400	4187.000
36	4131.000	4125.900	4163.800	3991.200	4131.000
37	4071.200	4071.600	4109.800	3933.900	4071.200
38	4004.000	4010.000	4054.200	3866.700	4004.000
39	3918.900	3939.600	3989.800	3800.500	3918.900
40	3830.000	3870.900	3903.900	3727.900	3830.000
41	3735.300	3796.300	3804.500	3653.200	3735.300
42	3650.500	3725.900	3701.400	3582.500	3650.500
43	3568.200	3651.900	3600.600	3503.500	3568.200
44	3486.400	3566.700	3511.300	3411.100	3486.400
45	3408.000	3472.900	3438.200	3301.400	3408.000
46	3330.200	3362.100	3369.600	3174.100	3330.200
47	3255.900	3241.900	3301.500	3045.500	3255.900
48	3178.100	3125.800	3228.700	2939.200	3178.100
49	3099.700	3024.000	3158.200	2854.500	3099.700
50	3020.300	2936.700	3081.400	2776.000	3020.300
51	2936.500	2861.400	3006.900	2697.700	2936.500
52	2856.200	2785.500	2929.800	2616.300	2856.200
53	2772.000	2699.400	2847.500	2529.200	2772.000

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54	2679.500	2606.300	2742.700	2431.900	2679.500
55	2560.400	2506.800	2622.700	2337.900	2560.400
56	2420.100	2415.900	2494.900	2247.000	2420.100
57	2301.400	2330.200	2372.700	2116.900	2301.400
58	2211.600	2228.600	2268.400	1986.300	2211.600
59	2124.000	2090.300	2186.200	1843.600	2124.000
60	2033.100	1942.000	2097.200	1752.600	2033.100
61	1938.200	1838.900	2008.100	1667.100	1938.200
62	1840.900	1755.500	1910.400	1576.900	1840.900
63	1737.900	1662.700	1806.700	1484.400	1737.900
64	1595.600	1569.400	1704.500	1385.100	1595.600
65	1477.500	1481.100	1572.500	1229.300	1477.500
66	1382.400	1358.800	1463.600	1116.500	1382.400
67	1294.300	1200.600	1368.000	1037.500	1294.300
68	1209.000	1102.300	1283.400	958.900	1209.000
69	1079.200	1025.300	1192.100	868.390	1079.200
70	961.030	949.520	1067.100	714.030	961.030
71	873.960	843.720	954.520	642.850	873.960
72	789.800	701.840	858.950	578.430	789.800
73	672.800	631.010	768.980	448.400	672.800
74	587.740	565.510	657.430	391.320	587.740
75	501.860	474.730	577.820	311.480	501.860
76	425.650	383.810	480.850	244.820	425.650
77	349.510	285.550	412.130	191.620	349.510
78	279.170	239.600	334.610	138.510	279.170
79	219.540	169.860	267.500	91.604	219.540
80	163.670	120.620	216.960	55.824	163.670
81	115.310	79.026	166.600	35.735	115.310
82	78.382	45.852	118.310	32.339	78.382
83	52.976	34.535	81.072	28.935	52.976
84	29.623	31.122	49.677	25.637	29.623
85	20.011	27.850	30.293	22.787	20.011
86	17.031	24.819	20.771	19.902	17.031
87	14.432	22.369	17.626	13.482	14.432
88	11.015	19.213	15.049	5.997	11.015
89	5.242	11.722	11.314	4.867	5.242
90	5.439	5.649	6.239	5.154	5.439
91	5.804	5.731	6.355	5.486	5.804
92	6.158	6.068	6.743	5.842	6.158
93	6.535	6.408	7.112	6.196	6.535
94	6.929	6.772	7.501	6.598	6.929
95	7.346	7.160	7.908	7.008	7.346
96	7.767	7.564	8.324	7.438	7.767
97	8.194	7.981	8.757	7.870	8.194
98	8.646	8.400	9.204	8.315	8.646
99	9.112	8.837	9.661	8.774	9.112
100	9.585	9.294	10.115	9.259	9.585
101	10.075	9.761	10.589	9.739	10.075
102	10.549	10.211	11.089	10.217	10.549
103	11.049	10.694	11.582	10.716	11.049
104	11.567	11.187	12.093	11.233	11.567
105	12.081	11.684	12.603	11.750	12.081
106	12.602	12.195	13.130	12.269	12.602
107	13.131	12.698	13.651	12.805	13.131
108	13.663	13.217	14.167	13.331	13.663
109	14.199	13.731	14.717	13.882	14.199

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110	14.743	14.246	15.259	14.432	14.743
111	15.291	14.799	15.828	14.982	15.291
112	15.851	15.351	16.372	15.557	15.851
113	16.404	15.920	16.928	16.119	16.404
114	16.966	16.478	17.490	16.717	16.966
115	17.528	17.061	18.044	17.299	17.528
116	18.067	17.638	18.609	17.870	18.067
117	18.637	18.215	19.186	18.477	18.637
118	19.197	18.804	19.744	19.071	19.197
119	19.775	19.401	20.316	19.663	19.775
120	20.336	19.992	20.882	20.243	20.336
121	20.892	20.582	21.464	20.839	20.892
122	21.465	21.158	22.015	21.441	21.465
123	22.005	21.727	22.568	22.018	22.005
124	22.567	22.297	23.142	22.599	22.567
125	23.127	22.884	23.714	23.160	23.127
126	23.689	23.457	24.293	23.737	23.689
127	24.257	24.025	24.853	24.317	24.257
128	24.834	24.587	25.409	24.879	24.834
129	25.378	25.165	25.935	25.453	25.378
130	25.925	25.705	26.488	26.006	25.925
131	26.480	26.283	27.011	26.589	26.480
132	27.032	26.825	27.539	27.166	27.032
133	27.577	27.369	28.075	27.727	27.577
134	28.115	27.895	28.627	28.290	28.115
135	28.667	28.439	29.173	28.836	28.667
136	29.211	28.984	29.686	29.386	29.211
137	29.738	29.511	30.228	29.939	29.738
138	30.276	30.064	30.758	30.482	30.276
139	30.808	30.601	31.243	31.056	30.808
140	31.358	31.130	31.761	31.632	31.358
141	31.923	31.649	32.228	32.203	31.923
142	32.477	32.145	32.716	32.786	32.477
143	33.025	32.667	33.228	33.348	33.025
144	33.533	33.178	33.666	33.911	33.533
145	34.082	33.643	34.150	34.454	34.082
146	34.632	34.112	34.622	35.007	34.632
147	35.147	34.569	35.078	35.524	35.147
148	35.659	35.006	35.523	36.039	35.659
149	36.145	35.437	35.898	36.523	36.145
150	36.633	35.864	36.312	37.003	36.633
151	37.103	36.291	36.731	37.459	37.103
152	37.544	36.729	37.143	37.910	37.544
153	37.993	37.137	37.503	38.367	37.993
154	38.434	37.503	37.892	38.817	38.434
155	38.862	37.915	38.264	39.256	38.862
156	39.312	38.299	38.647	39.698	39.312
157	39.736	38.713	39.016	40.118	39.736
158	40.136	39.058	39.352	40.504	40.136
159	40.533	39.414	39.713	40.880	40.533
160	40.916	39.739	40.052	41.236	40.916
161	41.250	40.080	40.376	41.605	41.250
162	41.614	40.432	40.703	41.991	41.614
163	41.948	40.774	40.998	42.339	41.948
164	42.272	41.131	41.312	42.698	42.272
165	42.590	41.604	41.741	43.061	42.590

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CANDELA TABULATION - (Cont.)

166	42.880	42.029	42.116	43.400	42.880
167	43.153	42.457	42.471	43.692	43.153
168	43.416	42.814	42.779	43.961	43.416
169	43.653	43.167	43.103	44.209	43.653
170	43.893	43.595	43.512	44.430	43.893
171	44.119	43.900	43.805	44.598	44.119
172	44.300	44.208	44.100	44.726	44.300
173	44.473	44.442	44.366	44.817	44.473
174	44.623	44.670	44.598	44.900	44.623
175	44.759	44.887	44.803	44.998	44.759
176	44.887	45.067	44.985	45.089	44.887
177	44.971	45.143	45.099	45.135	44.971
178	45.046	45.180	45.152	45.150	45.046
179	45.121	45.180	45.167	45.150	45.121
180	45.132	45.132	45.132	45.132	45.132

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1973.7	14.40	14.40
0-30	4149.75	30.30	30.30
0-40	6746.68	49.20	49.20
0-60	11588.63	84.50	84.50
0-80	13531.18	98.70	98.70
0-90	13575.5	99.00	99.00
10-90	13067.26	95.30	95.30
20-40	4772.98	34.80	34.80
20-50	7392.85	53.90	53.90
40-70	6272.8	45.70	45.70
60-80	1942.56	14.20	14.20
70-80	511.70	3.70	3.70
80-90	44.31	0.30	0.30
90-110	20.83	0.20	0.20
90-120	38.15	0.30	0.30
90-130	58.93	0.40	0.40
90-150	102.47	0.70	0.70
90-180	136.42	1.00	1.00
110-180	115.59	0.80	0.80
0-180	13711.92	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	508.24
10-20	1465.46
20-30	2176.05
30-40	2596.93
40-50	2619.87
50-60	2222.08
60-70	1430.85
70-80	511.70
80-90	44.31
90-100	8.09
100-110	12.74
110-120	17.33
120-130	20.78
130-140	22.22
140-150	21.32
150-160	17.78
160-170	11.91
170-180	4.25

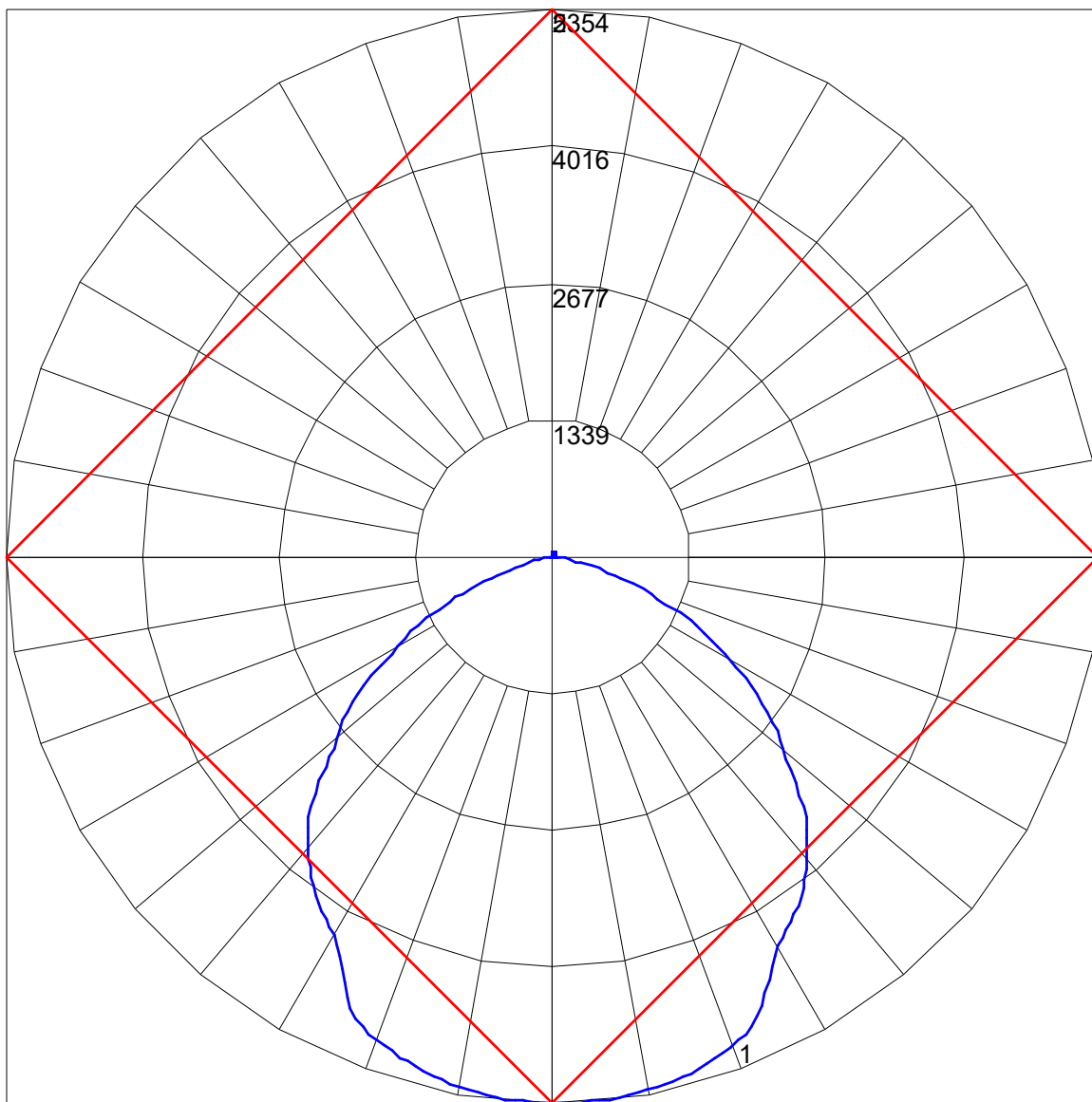
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	98	107	103	100	97	99	96	94	95	93	91	91	89	88	86
2	101	93	87	82	98	91	85	81	87	83	79	84	80	77	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	69	63	57	67	61	56	65	60	56	53
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	58	53	49	47
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	48	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	44	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27

POLAR GRAPH



Maximum Candela = 5354.4 Located At Horizontal Angle = 90, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)