



# The Perfect Lighting Choice.™

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## IES INDOOR REPORT PHOTOMETRIC FILENAME : FSN SEED 2 LIGHT.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 18097-A  
[TESTLAB] LightLab International ([www.LightLabInternational.com](http://www.LightLabInternational.com))  
[MANUFAC] Justice Design Group, Los Angeles, CA 90071  
[LUMCAT] Artisan Glass (FSN) - Seeded Glass (SEED) 2-Light Bath Bar  
[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: FSN SEED 2-Light  
[MORE] Steel formed housing and two frosted clear glass lenses with white interior.  
[MORE] 20 LEDs mounted in two circular arrays with white plastic dome lenses.  
[MORE] No driver.  
[MORE] Operating at 120 VAC and 60 Hz.  
[MORE] Simulated data from test of one and six lamp fixtures.  
[ISSUE DATE] April 20, 2018

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1200
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	14.98
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.56
Spacing Criterion (90-270)	1.74
Spacing Criterion (Diagonal)	1.54
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 m
Luminous Width (90-270)	0.33 m
Luminous Height	0.14 m

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3210	3435	6860
55	2707	2693	4726
65	2421	2321	3785
75	2248	2087	3604
85	2164	1964	3667

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**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>
<b>0.0</b>	188.009	188.009	188.009	188.009	188.009	188.009	188.009	188.009	188.009
<b>0.5</b>	186.189	186.730	187.446	187.532	188.139	188.897	189.482	189.526	189.547
<b>1.0</b>	186.665	187.294	187.597	187.727	188.377	189.591	190.523	190.891	191.173
<b>1.5</b>	188.161	188.529	188.529	188.204	189.006	190.588	191.953	192.820	193.166
<b>2.0</b>	189.829	189.981	189.873	188.941	189.743	191.671	193.621	194.965	195.398
<b>2.5</b>	191.866	191.996	191.433	190.046	190.674	192.971	195.507	197.327	197.825
<b>3.0</b>	194.293	193.881	193.166	191.346	191.628	194.315	197.630	199.667	200.339
<b>3.5</b>	196.742	196.157	195.095	192.668	192.733	195.702	199.602	202.116	203.178
<b>4.0</b>	199.277	198.671	196.894	194.142	193.838	197.327	201.791	204.608	205.648
<b>4.5</b>	201.834	200.946	198.974	195.528	195.030	198.952	203.915	207.209	208.422
<b>5.0</b>	204.240	203.546	200.989	197.024	196.157	200.556	205.908	209.592	211.044
<b>5.5</b>	206.667	205.822	203.005	198.692	197.392	202.159	208.097	212.236	213.645
<b>6.0</b>	209.462	208.335	205.063	200.296	198.627	203.893	210.394	214.858	216.678
<b>6.5</b>	211.976	210.762	207.274	201.856	199.776	205.540	212.539	217.393	219.084
<b>7.0</b>	214.490	213.103	209.354	203.525	201.098	207.209	214.836	220.037	221.857
<b>7.5</b>	216.982	215.725	211.478	205.172	202.398	208.942	217.133	222.616	224.545
<b>8.0</b>	219.344	218.130	213.666	206.753	203.698	210.654	219.300	225.130	227.123
<b>8.5</b>	221.771	220.622	215.768	208.422	204.890	212.388	221.576	227.643	229.702
<b>9.0</b>	224.501	222.941	217.914	210.091	206.277	214.100	223.916	230.070	232.281
<b>9.5</b>	227.058	225.346	220.102	211.716	207.685	215.855	225.931	232.432	234.859
<b>10.0</b>	229.507	227.860	222.183	213.406	208.899	217.480	228.098	235.054	237.395
<b>10.5</b>	231.934	230.504	224.371	215.161	210.199	219.235	230.352	237.460	239.952
<b>11.0</b>	234.708	232.779	226.473	216.830	211.499	220.969	232.432	239.865	242.487
<b>11.5</b>	237.308	235.206	228.532	218.650	212.821	222.703	234.621	242.184	244.849
<b>12.0</b>	239.714	237.698	230.720	220.319	214.143	224.436	236.745	244.676	247.298
<b>12.5</b>	241.686	239.930	232.996	221.944	215.421	226.235	238.825	246.843	249.703
<b>13.0</b>	243.072	242.119	235.011	223.634	216.657	227.903	240.927	249.227	251.849
<b>13.5</b>	243.939	243.853	237.243	225.281	218.000	229.659	242.964	251.415	253.647
<b>14.0</b>	244.221	244.958	239.237	226.798	219.300	231.284	244.958	253.409	254.839
<b>14.5</b>	244.893	245.868	241.339	228.510	220.449	232.953	246.930	255.034	255.489
<b>15.0</b>	245.391	246.453	243.311	230.157	221.879	234.599	249.010	256.204	255.771
<b>15.5</b>	245.889	246.908	245.196	231.826	223.179	236.160	250.895	256.659	255.684
<b>16.0</b>	246.063	247.493	246.800	233.473	224.285	237.828	252.781	256.941	255.554
<b>16.5</b>	246.280	247.558	248.252	235.011	225.476	239.432	254.709	256.898	255.251
<b>17.0</b>	246.301	247.710	249.508	236.571	226.885	240.927	256.421	256.681	254.796
<b>17.5</b>	246.583	248.035	250.505	238.197	228.012	242.422	257.895	256.443	254.623
<b>18.0</b>	246.431	247.991	251.134	239.692	229.204	244.026	259.217	256.031	254.037
<b>18.5</b>	246.583	247.970	251.675	241.209	230.460	245.478	260.040	255.641	253.452
<b>19.0</b>	246.540	248.078	251.914	242.726	231.674	247.016	260.495	255.208	252.889
<b>19.5</b>	246.215	247.753	252.087	244.264	232.887	248.425	260.668	254.731	252.239
<b>20.0</b>	245.803	247.666	252.152	245.629	234.036	249.963	260.582	254.081	251.719
<b>20.5</b>	245.456	247.471	252.130	247.146	235.315	251.350	260.343	253.517	250.960
<b>21.0</b>	244.654	246.930	252.044	248.512	236.485	252.802	259.997	252.867	250.245
<b>21.5</b>	244.221	246.388	251.870	249.942	237.698	254.232	259.542	252.065	249.530
<b>22.0</b>	243.788	245.976	251.589	251.242	238.912	255.533	259.065	251.329	248.598
<b>22.5</b>	243.072	245.261	251.307	252.477	240.147	256.920	258.588	250.419	247.493
<b>23.0</b>	242.379	244.416	251.004	253.561	241.295	258.133	257.916	249.465	246.583
<b>23.5</b>	241.382	243.419	250.397	254.319	242.314	259.412	257.158	248.555	245.348
<b>24.0</b>	240.429	242.379	249.855	254.969	243.527	260.603	256.421	247.320	244.091
<b>24.5</b>	239.605	241.534	249.227	255.533	244.589	261.774	255.598	245.955	242.964
<b>25.0</b>	238.608	240.385	248.360	255.988	245.673	262.792	254.666	244.806	241.686
<b>25.5</b>	237.503	239.302	247.536	256.334	246.756	263.572	253.777	243.419	240.234
<b>26.0</b>	236.290	238.067	246.518	256.421	247.688	264.266	252.607	241.924	238.847
<b>26.5</b>	235.141	236.788	245.456	256.681	248.685	264.699	251.545	240.494	237.200

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27.0	233.559	235.380	244.264	256.594	249.595	264.894	250.354	238.825	235.640
27.5	232.476	234.188	243.029	256.421	250.484	264.937	248.945	237.287	234.036
28.0	230.872	232.736	241.577	256.009	251.307	264.764	247.536	235.575	232.302
28.5	229.334	231.046	240.104	255.554	252.239	264.244	245.998	233.819	230.439
29.0	227.860	229.442	238.652	254.731	253.149	263.572	244.329	231.934	228.575
29.5	226.235	227.925	237.005	253.886	253.972	262.662	242.639	230.049	226.668
30.0	224.610	226.256	235.250	252.846	254.644	261.514	240.819	228.120	224.566
30.5	222.573	224.523	233.451	251.567	255.511	260.278	238.782	226.040	222.378
31.0	220.969	222.919	231.566	250.440	256.183	258.891	236.810	223.916	220.319
31.5	219.235	221.077	229.745	249.097	256.941	257.375	234.729	221.836	218.000
32.0	217.177	219.149	227.925	247.536	257.678	255.619	232.606	219.647	215.833
32.5	215.313	217.328	225.780	246.020	258.111	253.691	230.374	217.307	213.276
33.0	213.298	215.291	223.786	244.221	258.653	251.589	228.207	214.923	210.914
33.5	210.979	213.428	221.771	242.314	259.065	249.530	225.953	212.474	208.097
34.0	209.094	211.283	219.539	240.515	258.935	247.060	223.526	210.112	205.713
34.5	207.079	209.202	217.458	238.283	258.610	244.698	221.164	207.599	203.091
35.0	204.695	207.014	215.205	236.051	257.526	242.227	218.585	205.042	200.296
35.5	202.571	204.998	213.038	233.754	256.053	239.670	216.158	202.463	197.544
36.0	200.317	202.636	210.697	231.349	254.146	236.961	213.623	199.667	194.922
36.5	197.934	200.426	208.509	228.749	251.892	234.383	211.044	197.110	192.040
37.0	195.832	198.215	206.168	226.083	249.053	231.479	208.400	194.423	189.287
37.5	193.578	195.897	203.698	223.374	245.499	228.640	205.713	191.563	186.362
38.0	191.194	193.513	201.444	220.666	241.577	225.780	203.070	188.746	183.480
38.5	188.897	191.151	198.974	217.762	237.503	222.768	200.187	185.777	180.684
39.0	186.579	188.897	196.612	214.880	233.299	219.885	197.457	182.960	177.846
39.5	184.368	186.470	194.163	211.889	229.095	216.852	194.618	179.991	174.855
40.0	182.461	184.152	191.649	208.920	224.870	213.861	191.823	177.087	172.060
40.5	180.251	181.790	189.136	205.995	220.861	210.784	188.854	174.162	169.156
41.0	178.019	179.514	186.687	202.918	216.852	207.772	185.972	171.236	166.361
41.5	176.350	177.282	184.065	200.057	212.973	204.695	182.981	168.268	163.674
42.0	174.530	175.050	181.508	197.045	209.376	201.618	180.034	165.364	160.965
42.5	173.013	172.840	178.886	194.012	205.670	198.476	176.957	162.503	158.364
43.0	171.713	170.781	176.329	191.021	202.181	195.398	173.880	159.708	155.656
43.5	170.586	169.004	173.685	187.879	198.909	192.170	170.868	157.021	153.402
44.0	169.654	167.206	171.128	184.802	195.637	188.919	167.661	154.182	151.213
44.5	168.268	165.819	168.549	181.898	192.473	185.734	164.562	151.690	149.155
45.0	167.119	164.475	165.906	178.626	189.309	182.353	161.420	149.285	147.486
45.5	166.036	163.197	163.478	175.614	186.362	179.146	158.451	147.096	145.839
46.0	164.844	162.135	160.943	172.537	183.242	175.722	155.374	145.059	144.279
46.5	163.587	160.921	158.473	169.459	180.316	172.298	152.318	143.282	142.632
47.0	162.308	159.643	156.176	166.209	177.174	168.896	149.155	141.635	140.963
47.5	161.181	158.516	153.792	163.088	173.988	165.385	146.273	139.988	139.295
48.0	160.033	157.368	151.755	159.968	170.803	161.897	143.390	138.428	137.561
48.5	158.776	156.046	149.761	156.674	167.509	158.299	140.508	136.781	136.109
49.0	157.758	154.875	148.049	153.597	164.150	154.875	137.865	135.199	134.549
49.5	156.587	153.662	146.294	150.346	160.705	151.300	135.307	133.574	132.924
50.0	155.439	152.513	144.756	147.204	157.194	147.898	133.054	132.079	131.472
50.5	154.290	151.278	143.174	144.192	153.510	144.366	130.930	130.453	129.955
51.0	153.250	150.173	141.830	141.245	149.826	140.812	129.002	128.980	128.351
51.5	152.297	148.916	140.617	137.951	146.121	137.366	127.290	127.398	126.986
52.0	151.040	147.898	139.533	135.069	142.199	133.942	125.664	126.033	125.578
52.5	150.173	146.771	138.320	132.165	138.190	130.562	124.277	124.537	124.147
53.0	149.090	145.601	137.171	129.175	134.397	127.225	122.717	122.999	122.739
53.5	148.179	144.539	135.979	126.596	130.475	124.061	121.265	121.872	121.309
54.0	147.248	143.585	134.874	123.931	126.639	120.919	119.878	120.312	120.030
54.5	146.012	142.459	133.704	121.504	122.999	118.036	118.470	118.990	118.860

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**CANDELA TABULATION - (Cont.)**

55.0	145.037	141.592	132.577	119.315	119.293	115.111	117.083	117.603	117.473
55.5	144.387	140.617	131.429	117.495	115.804	112.381	115.696	116.346	116.325
56.0	143.499	139.620	130.367	115.631	112.294	110.084	114.309	115.068	115.024
56.5	142.610	138.623	129.175	114.136	109.022	107.895	112.966	113.833	113.768
57.0	141.852	137.821	128.113	112.532	105.966	106.226	111.709	112.554	112.597
57.5	140.942	136.738	127.051	111.015	102.933	104.904	110.409	111.319	111.427
58.0	140.227	135.871	125.924	109.910	100.115	103.821	109.022	110.149	110.235
58.5	139.230	135.069	124.971	109.065	97.645	102.672	107.787	108.935	108.978
59.0	138.558	134.159	123.974	108.047	95.543	101.611	106.573	107.700	107.873
59.5	137.713	133.292	122.934	107.158	93.809	100.570	105.273	106.638	106.876
60.0	136.803	132.490	121.980	106.226	92.509	99.487	104.146	105.468	105.620
60.5	136.001	131.667	121.049	105.273	91.426	98.338	102.933	104.254	104.644
61.0	135.286	130.822	120.073	104.276	90.537	97.212	101.697	103.193	103.388
61.5	134.701	130.085	118.968	103.388	89.735	96.150	100.614	102.066	102.456
62.0	133.834	129.218	118.145	102.282	88.977	95.110	99.422	100.982	101.264
62.5	133.032	128.395	117.213	101.394	88.089	93.983	98.360	99.920	100.137
63.0	132.339	127.593	116.238	100.419	87.243	92.899	97.277	98.707	99.205
63.5	131.429	126.791	115.371	99.465	86.377	91.816	96.171	97.775	98.057
64.0	130.713	126.098	114.569	98.555	85.488	90.841	95.023	96.735	97.082
64.5	130.193	125.318	113.616	97.537	84.578	89.735	94.026	95.738	96.020
65.0	129.457	124.537	112.901	96.627	83.711	88.739	92.964	94.655	95.023
65.5	128.633	123.779	111.926	95.760	82.801	87.590	91.794	93.766	94.004
66.0	127.918	123.107	111.145	94.806	81.913	86.615	90.819	92.726	93.029
66.5	127.290	122.284	110.279	93.809	81.046	85.618	89.735	91.707	92.119
67.0	126.618	121.655	109.434	93.073	80.006	84.535	88.630	90.689	91.101
67.5	125.816	120.897	108.567	92.163	79.204	83.473	87.742	89.735	90.104
68.0	125.123	120.117	107.808	91.122	78.359	82.628	86.767	88.739	89.215
68.5	124.516	119.402	107.028	90.321	77.405	81.501	85.748	87.872	88.370
69.0	123.887	118.773	106.183	89.432	76.473	80.634	84.860	86.897	87.243
69.5	123.194	118.036	105.425	88.479	75.607	79.702	83.863	85.965	86.377
70.0	122.587	117.408	104.579	87.698	74.675	78.640	82.974	85.055	85.553
70.5	121.785	116.671	103.734	86.853	73.765	77.709	82.021	84.188	84.426
71.0	121.092	115.978	103.128	85.878	72.876	76.777	81.067	83.191	83.668
71.5	120.550	115.436	102.369	85.120	72.009	75.845	80.136	82.346	82.779
72.0	119.922	114.721	101.567	84.231	71.164	74.848	79.269	81.414	81.913
72.5	119.337	114.049	100.896	83.321	70.276	73.981	78.359	80.591	81.002
73.0	118.622	113.399	100.159	82.606	69.409	73.050	77.514	79.659	80.157
73.5	117.950	112.792	99.400	81.718	68.542	72.118	76.582	78.857	79.269
74.0	117.495	112.077	98.707	80.851	67.719	71.229	75.758	77.990	78.467
74.5	116.996	111.405	97.927	80.136	66.787	70.319	74.892	77.145	77.579
75.0	116.281	110.864	97.255	79.377	66.028	69.517	74.090	76.365	76.690
75.5	115.566	110.192	96.648	78.510	65.205	68.694	73.223	75.433	75.888
76.0	114.981	109.585	95.976	77.774	64.317	67.762	72.356	74.631	75.022
76.5	114.288	108.978	95.218	77.037	63.471	67.004	71.533	73.808	74.263
77.0	113.594	108.328	94.676	76.257	62.735	66.180	70.666	73.050	73.483
77.5	113.247	107.808	93.961	75.455	61.868	65.270	69.886	72.183	72.768
78.0	112.597	107.158	93.203	74.762	61.153	64.533	69.106	71.381	71.901
78.5	111.861	106.508	92.661	73.895	60.308	63.731	68.326	70.601	71.143
79.0	111.470	105.901	92.011	73.266	59.527	62.865	67.502	69.842	70.211
79.5	110.712	105.316	91.274	72.616	58.747	62.063	66.722	69.019	69.496
80.0	110.365	104.709	90.732	71.771	58.011	61.283	65.942	68.261	68.737
80.5	109.737	104.189	90.039	71.121	57.317	60.524	65.118	67.567	68.065
81.0	109.108	103.626	89.410	70.428	56.559	59.744	64.468	66.765	67.177
81.5	108.697	102.954	88.847	69.734	55.930	59.094	63.731	66.050	66.462
82.0	107.982	102.391	88.175	69.127	55.215	58.314	62.908	65.400	65.790
82.5	107.505	101.936	87.503	68.499	54.478	57.512	62.215	64.663	65.075

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**CANDELA TABULATION - (Cont.)**

83.0	106.790	101.264	86.983	67.784	53.763	56.862	61.521	63.927	64.317
83.5	106.270	100.787	86.398	67.134	53.113	56.190	60.784	63.168	63.558
84.0	105.815	100.267	85.748	66.592	52.441	55.454	60.134	62.540	62.843
84.5	105.251	99.639	85.271	65.898	51.813	54.760	59.397	61.760	62.106
85.0	104.796	99.075	84.708	65.335	51.228	54.067	58.769	61.131	61.586
85.5	104.298	98.555	84.080	64.750	50.534	53.330	58.162	60.438	60.828
86.0	103.778	98.013	83.538	64.122	49.971	52.745	57.382	59.614	60.286
86.5	103.236	97.580	83.104	63.580	49.343	52.073	56.732	59.007	59.397
87.0	102.651	97.038	82.476	63.168	48.779	51.445	56.147	58.444	58.791
87.5	102.174	96.475	82.021	62.518	48.346	50.859	55.497	57.729	58.227
88.0	101.719	96.150	81.566	62.106	47.696	50.274	54.933	57.144	57.512
88.5	101.221	95.651	81.067	61.651	47.306	49.689	54.327	56.559	56.884
89.0	101.134	95.370	80.699	61.153	46.851	49.278	53.742	55.887	56.169
89.5	101.177	95.348	80.699	61.109	46.525	48.844	53.200	55.345	55.627
90.0	100.982	95.478	80.851	61.196	46.699	48.736	52.983	55.020	55.259
90.5	101.307	95.608	80.872	61.261	46.699	48.779	52.853	54.847	55.150
91.0	101.589	95.695	81.002	61.391	46.656	48.779	52.745	54.760	55.042
91.5	101.676	95.955	81.111	61.521	46.807	48.801	52.723	54.717	54.847
92.0	101.849	95.933	81.328	61.478	46.829	48.801	52.615	54.543	54.782
92.5	101.979	96.106	81.414	61.651	46.959	48.736	52.528	54.370	54.630
93.0	102.152	96.258	81.414	61.803	46.916	48.606	52.528	54.305	54.543
93.5	102.412	96.366	81.718	61.868	47.132	48.627	52.528	54.218	54.392
94.0	102.521	96.583	81.804	62.041	47.089	48.584	52.333	54.132	54.218
94.5	102.672	96.648	81.934	62.085	47.197	48.476	52.398	53.980	53.958
95.0	102.998	96.800	82.021	62.193	47.197	48.476	52.246	53.677	53.807
95.5	102.954	97.038	82.129	62.323	47.262	48.454	52.138	53.590	53.742
96.0	103.214	97.147	82.281	62.410	47.306	48.411	52.030	53.482	53.460
96.5	103.344	97.255	82.541	62.475	47.436	48.346	51.900	53.243	53.330
97.0	103.496	97.407	82.498	62.626	47.414	48.302	51.835	53.092	53.048
97.5	103.604	97.537	82.628	62.800	47.436	48.194	51.770	53.048	52.940
98.0	103.843	97.558	82.779	62.778	47.609	48.237	51.575	52.831	52.766
98.5	103.864	97.753	82.888	62.973	47.631	48.107	51.510	52.680	52.550
99.0	103.994	97.883	82.888	63.146	47.696	47.977	51.466	52.506	52.376
99.5	104.146	97.927	83.039	63.081	47.739	47.977	51.228	52.333	52.073
100.0	104.189	98.035	83.104	63.211	47.847	47.891	51.185	52.181	51.943
100.5	104.363	98.057	83.126	63.320	47.869	47.826	51.120	51.965	51.726
101.0	104.341	98.122	83.213	63.450	47.977	47.739	50.990	51.726	51.510
101.5	104.579	98.165	83.299	63.493	48.021	47.587	50.838	51.596	51.206
102.0	104.493	98.230	83.278	63.601	48.194	47.544	50.686	51.358	51.120
102.5	104.558	98.230	83.299	63.623	48.194	47.479	50.491	51.141	50.903
103.0	104.579	98.295	83.343	63.710	48.324	47.306	50.318	50.968	50.708
103.5	104.579	98.317	83.299	63.840	48.281	47.241	50.188	50.838	50.318
104.0	104.753	98.338	83.213	63.710	48.324	47.132	49.993	50.621	50.231
104.5	104.796	98.425	83.234	63.840	48.367	47.002	49.733	50.361	49.884
105.0	104.601	98.447	83.191	63.905	48.497	46.872	49.494	50.209	49.646
105.5	104.709	98.317	83.169	63.775	48.541	46.764	49.256	49.928	49.364
106.0	104.796	98.338	83.234	63.818	48.476	46.677	49.018	49.624	49.191
106.5	104.753	98.382	83.191	63.818	48.541	46.569	48.801	49.408	48.909
107.0	104.818	98.382	83.126	63.796	48.476	46.482	48.541	49.083	48.692
107.5	104.753	98.317	83.104	63.775	48.476	46.352	48.324	48.823	48.324
108.0	104.753	98.295	83.061	63.883	48.541	46.092	48.086	48.389	47.956
108.5	104.796	98.273	83.104	63.775	48.454	46.049	47.869	48.129	47.566
109.0	104.601	98.252	82.996	63.775	48.497	45.810	47.631	47.761	47.327
109.5	104.666	98.100	82.888	63.688	48.389	45.745	47.392	47.479	46.786
110.0	104.558	98.122	82.823	63.688	48.454	45.637	47.154	47.046	46.612
110.5	104.579	97.948	82.823	63.666	48.367	45.507	46.851	46.829	46.070

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**CANDELA TABULATION - (Cont.)**

111.0	104.449	97.970	82.736	63.731	48.389	45.377	46.656	46.460	45.680
111.5	104.384	97.905	82.736	63.645	48.281	45.269	46.309	46.157	45.485
112.0	104.124	97.862	82.649	63.623	48.259	45.052	46.092	45.767	45.009
112.5	104.189	97.775	82.476	63.558	48.302	44.987	45.897	45.464	44.575
113.0	104.146	97.645	82.476	63.493	48.281	44.792	45.659	45.139	44.185
113.5	104.016	97.537	82.368	63.406	48.216	44.705	45.312	44.684	43.882
114.0	103.843	97.472	82.216	63.406	48.194	44.597	45.095	44.445	43.535
114.5	103.886	97.342	82.151	63.298	48.172	44.380	44.879	43.947	43.102
115.0	103.626	97.190	81.956	63.211	48.064	44.250	44.424	43.470	42.603
115.5	103.539	97.212	81.869	63.146	48.086	44.077	44.315	43.037	42.213
116.0	103.323	96.908	81.696	62.995	47.912	44.055	43.947	42.452	41.758
116.5	103.344	96.822	81.588	62.973	47.977	43.795	43.578	41.996	41.303
117.0	103.063	96.670	81.414	62.865	47.869	43.708	43.427	41.585	40.523
117.5	102.824	96.453	81.349	62.756	47.761	43.557	43.188	41.000	40.111
118.0	102.694	96.301	81.089	62.583	47.674	43.362	42.842	40.566	39.418
118.5	102.499	96.215	80.959	62.496	47.544	43.210	42.538	40.090	38.919
119.0	102.239	95.933	80.807	62.453	47.479	43.080	42.365	39.591	38.313
119.5	102.022	95.803	80.656	62.345	47.479	42.950	41.975	39.028	37.662
120.0	101.827	95.673	80.526	62.171	47.327	42.798	41.801	38.443	37.077
120.5	101.676	95.326	80.352	61.955	47.219	42.582	41.476	37.923	36.514
121.0	101.459	95.175	80.092	61.955	47.046	42.430	41.130	37.446	35.929
121.5	101.069	95.023	79.876	61.846	47.046	42.213	40.978	36.969	35.322
122.0	100.896	94.698	79.724	61.586	46.981	42.040	40.675	36.427	34.694
122.5	100.592	94.481	79.572	61.434	46.807	41.975	40.393	35.972	34.174
123.0	100.354	94.286	79.291	61.369	46.699	41.715	40.155	35.474	33.589
123.5	100.029	93.874	79.052	61.088	46.612	41.585	39.916	35.040	32.873
124.0	99.985	93.571	78.900	61.001	46.569	41.455	39.526	34.520	32.397
124.5	99.444	93.354	78.662	60.849	46.395	41.238	39.331	34.087	31.877
125.0	99.075	93.008	78.445	60.676	46.244	41.195	39.136	33.610	31.335
125.5	98.707	92.726	78.120	60.438	46.135	41.000	38.898	33.198	30.923
126.0	98.273	92.336	77.882	60.308	46.092	40.913	38.746	32.830	30.468
126.5	98.100	91.967	77.600	60.091	45.984	40.805	38.464	32.397	30.013
127.0	97.450	91.686	77.362	59.983	45.919	40.696	38.139	32.050	29.558
127.5	97.017	91.252	77.037	59.788	45.832	40.523	37.966	31.747	29.211
128.0	96.713	90.862	76.755	59.549	45.680	40.480	37.771	31.270	28.821
128.5	96.236	90.429	76.452	59.419	45.680	40.436	37.489	30.880	28.453
129.0	95.760	90.191	76.192	59.181	45.485	40.241	37.272	30.446	28.084
129.5	95.435	89.714	75.823	59.029	45.399	40.111	37.121	30.078	27.846
130.0	94.806	89.410	75.520	58.726	45.312	39.873	36.731	29.731	27.499
130.5	94.438	88.977	75.173	58.574	45.312	39.808	36.579	29.406	27.044
131.0	94.004	88.544	74.848	58.444	45.095	39.678	36.362	29.103	26.849
131.5	93.636	88.175	74.566	58.162	45.009	39.591	36.102	28.691	26.654
132.0	93.008	87.742	74.155	58.097	44.944	39.504	35.886	28.388	26.286
132.5	92.444	87.178	73.851	57.772	44.814	39.374	35.734	28.063	25.961
133.0	92.054	86.767	73.505	57.512	44.619	39.244	35.474	27.781	25.896
133.5	91.469	86.333	73.136	57.339	44.597	39.136	35.279	27.564	25.571
134.0	90.992	85.813	72.790	57.079	44.402	39.093	35.040	27.261	25.462
134.5	90.537	85.336	72.421	56.797	44.380	38.963	34.889	26.936	25.181
135.0	89.996	84.881	71.966	56.537	44.207	38.789	34.672	26.741	24.964
135.5	89.475	84.296	71.684	56.320	44.077	38.811	34.455	26.502	24.747
136.0	88.890	83.993	71.251	56.060	43.925	38.573	34.195	26.112	24.465
136.5	88.349	83.495	70.883	55.887	43.817	38.464	33.957	25.939	24.184
137.0	87.742	82.909	70.493	55.562	43.708	38.334	33.870	25.679	23.880
137.5	87.135	82.411	70.102	55.324	43.492	38.226	33.545	25.376	23.772
138.0	86.485	81.891	69.691	55.107	43.448	38.031	33.437	25.246	23.707
138.5	85.987	81.328	69.344	54.825	43.318	38.031	33.350	25.029	23.425

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**CANDELA TABULATION - (Cont.)**

139.0	85.336	80.872	68.889	54.500	43.080	37.966	33.047	24.725	23.252
139.5	84.773	80.287	68.456	54.240	42.972	37.814	32.895	24.552	23.035
140.0	84.340	79.767	67.870	54.023	42.907	37.771	32.743	24.314	22.819
140.5	83.733	79.139	67.567	53.612	42.647	37.576	32.462	24.140	22.623
141.0	83.126	78.727	67.090	53.460	42.560	37.424	32.375	23.837	22.363
141.5	82.606	78.034	66.700	53.113	42.387	37.402	32.158	23.620	22.147
142.0	81.978	77.514	66.202	52.766	42.170	37.272	31.985	23.360	21.887
142.5	81.219	76.972	65.790	52.506	42.040	37.121	31.877	23.252	21.627
143.0	80.612	76.343	65.313	52.160	41.888	37.077	31.725	22.905	21.562
143.5	79.962	75.715	64.793	51.813	41.715	36.882	31.465	22.710	21.367
144.0	79.356	75.130	64.338	51.553	41.476	36.731	31.422	22.537	21.237
144.5	78.705	74.523	63.883	51.271	41.325	36.774	31.378	22.407	21.085
145.0	78.012	74.003	63.471	50.838	41.130	36.601	31.140	22.125	20.977
145.5	77.384	73.396	62.995	50.599	41.000	36.449	30.988	22.017	20.955
146.0	76.668	72.746	62.475	50.274	40.783	36.276	30.923	21.865	21.085
146.5	76.040	72.074	61.933	49.928	40.545	36.211	30.728	21.540	21.063
147.0	75.412	71.489	61.521	49.581	40.328	36.081	30.750	21.388	20.998
147.5	74.762	70.753	61.023	49.234	40.263	35.972	30.555	21.258	21.063
148.0	73.981	70.146	60.481	48.909	39.981	35.821	30.425	21.085	21.107
148.5	73.245	69.561	60.026	48.541	39.873	35.690	30.316	20.890	21.150
149.0	72.464	68.976	59.484	48.237	39.613	35.604	30.273	20.695	21.258
149.5	71.923	68.304	58.964	47.804	39.374	35.539	30.143	20.608	21.367
150.0	71.186	67.567	58.444	47.501	39.114	35.322	30.035	20.456	21.345
150.5	70.471	67.004	57.902	47.154	38.984	35.279	29.970	20.370	21.475
151.0	69.777	66.224	57.426	46.721	38.746	35.105	29.840	20.348	21.627
151.5	69.149	65.595	56.927	46.417	38.529	35.019	29.731	20.175	21.540
152.0	68.239	65.010	56.342	46.114	38.334	34.845	29.645	19.980	21.497
152.5	67.502	64.252	55.865	45.659	38.074	34.759	29.471	19.958	21.583
153.0	66.939	63.536	55.215	45.204	37.901	34.650	29.493	19.871	21.562
153.5	66.072	62.908	54.760	44.857	37.641	34.477	29.450	19.850	21.648
154.0	65.335	62.215	54.175	44.510	37.424	34.325	29.276	19.806	21.583
154.5	64.533	61.478	53.568	44.077	37.229	34.174	29.276	19.806	21.540
155.0	63.731	60.719	53.048	43.665	37.034	34.000	29.146	19.785	21.540
155.5	63.016	59.983	52.506	43.232	36.774	33.870	28.973	19.828	21.670
156.0	62.323	59.332	51.921	42.928	36.514	33.784	28.973	19.850	21.670
156.5	61.369	58.617	51.293	42.452	36.362	33.589	28.973	19.763	21.800
157.0	60.784	57.946	50.794	41.996	36.016	33.458	28.843	19.590	21.757
157.5	59.939	57.209	50.166	41.585	35.734	33.242	28.799	19.503	21.648
158.0	59.181	56.407	49.668	41.238	35.539	33.133	28.778	19.351	21.648
158.5	58.509	55.779	49.148	40.761	35.214	32.960	28.669	19.070	21.627
159.0	57.664	55.085	48.476	40.328	34.954	32.722	28.626	18.961	21.648
159.5	56.884	54.305	47.912	39.959	34.694	32.657	28.583	18.701	21.670
160.0	56.082	53.525	47.306	39.418	34.412	32.418	28.431	18.680	21.648
160.5	55.367	52.810	46.742	39.006	34.174	32.332	28.301	18.571	21.627
161.0	54.522	52.030	46.092	38.616	33.935	32.115	28.171	18.528	21.800
161.5	53.612	51.293	45.550	38.053	33.610	31.942	27.976	18.268	21.887
162.0	52.766	50.556	44.814	37.576	33.350	31.725	27.781	18.094	21.995
162.5	51.965	49.798	44.250	37.207	33.198	31.573	27.478	17.899	21.995
163.0	51.163	48.996	43.643	36.709	32.787	31.356	26.806	17.769	22.038
163.5	50.296	48.281	42.972	36.276	32.613	31.140	26.091	17.444	22.168
164.0	49.581	47.479	42.387	35.864	32.353	31.075	25.202	16.903	22.103
164.5	48.692	46.656	41.758	35.279	32.028	30.815	24.097	16.426	21.692
165.0	47.847	45.832	41.130	34.824	31.725	30.403	23.079	16.187	21.042
165.5	46.937	45.095	40.480	34.304	31.443	29.926	21.995	16.079	20.175
166.0	46.157	44.293	39.808	33.892	31.075	29.168	20.695	15.992	19.178
166.5	45.225	43.448	39.049	33.437	30.663	28.128	19.611	15.776	17.769

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**CANDELA TABULATION - (Cont.)**

<b>167.0</b>	44.272	42.647	38.443	33.003	30.013	27.022	18.745	15.667	16.101
<b>167.5</b>	43.427	41.845	37.814	32.462	29.081	25.701	17.878	15.212	14.649
<b>168.0</b>	42.452	40.891	36.947	32.050	27.781	24.270	17.336	14.909	12.915
<b>168.5</b>	41.563	40.046	36.297	31.530	26.632	22.927	16.989	14.541	11.312
<b>169.0</b>	40.653	39.266	35.690	30.750	25.072	21.497	16.599	13.825	9.405
<b>169.5</b>	39.699	38.443	34.889	29.796	23.685	20.110	16.448	13.045	7.368
<b>170.0</b>	38.703	37.554	34.087	28.518	22.125	19.048	16.144	11.919	5.483
<b>170.5</b>	37.749	36.427	33.242	27.196	20.803	18.354	15.711	10.532	3.966
<b>171.0</b>	36.774	35.387	32.007	25.809	19.698	17.661	15.364	9.318	2.427
<b>171.5</b>	35.886	34.499	30.945	24.357	18.940	17.271	14.757	8.278	1.604
<b>172.0</b>	34.845	33.502	29.905	22.970	18.268	16.989	13.717	7.043	1.430
<b>172.5</b>	33.957	32.137	28.453	21.952	17.683	16.491	12.504	5.829	1.409
<b>173.0</b>	32.397	30.901	27.066	20.998	17.184	15.927	11.268	4.659	1.344
<b>173.5</b>	30.533	29.493	25.506	19.871	16.556	14.779	9.643	3.944	1.149
<b>174.0</b>	29.536	27.673	23.707	18.961	16.036	13.110	7.975	3.641	0.997
<b>174.5</b>	27.911	25.917	22.082	17.921	15.061	11.442	6.371	3.272	0.845
<b>175.0</b>	25.961	24.032	20.521	16.621	13.652	9.535	5.092	2.990	0.650
<b>175.5</b>	23.425	21.843	18.680	15.299	11.919	7.454	4.356	2.470	0.477
<b>176.0</b>	20.890	19.416	16.859	13.717	10.077	5.656	3.857	2.059	0.628
<b>176.5</b>	18.159	16.686	14.714	11.485	7.931	4.356	3.294	1.452	0.498
<b>177.0</b>	14.974	13.912	12.309	9.210	6.003	3.662	2.774	0.953	0.412
<b>177.5</b>	11.680	10.792	10.033	7.173	4.421	3.229	2.340	0.628	0.412
<b>178.0</b>	8.170	7.563	7.650	4.876	3.251	2.687	1.842	0.520	0.693
<b>178.5</b>	5.201	4.832	5.049	3.099	2.622	2.210	1.387	0.563	0.477
<b>179.0</b>	3.055	2.904	2.709	1.929	2.037	1.755	1.084	0.520	0.542
<b>179.5</b>	1.084	1.647	1.040	1.040	1.409	1.409	0.672	0.542	0.758
<b>180.0</b>	0.780	0.780	0.780	0.780	0.780	0.780	0.780	0.780	0.780



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FSN SEED 2 LIGHT.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	88.33	N.A.	7.40
0-30	202.85	N.A.	16.90
0-40	341.33	N.A.	28.50
0-60	584.06	N.A.	48.70
0-80	772.71	N.A.	64.40
0-90	848.95	N.A.	70.80
10-90	828.93	N.A.	69.10
20-40	252.99	N.A.	21.10
20-50	383.52	N.A.	32.00
40-70	342.75	N.A.	28.60
60-80	188.66	N.A.	15.70
70-80	88.63	N.A.	7.40
80-90	76.23	N.A.	6.40
90-110	139.37	N.A.	11.60
90-120	200.81	N.A.	16.70
90-130	252.17	N.A.	21.00
90-150	321.46	N.A.	26.80
90-180	350.78	N.A.	29.20
110-180	211.41	N.A.	17.60
0-180	1199.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	20.02
10-20	68.32
20-30	114.51
30-40	138.48
40-50	130.53
50-60	112.20
60-70	100.02
70-80	88.63
80-90	76.23
90-100	71.03
100-110	68.34
110-120	61.44
120-130	51.36
130-140	40.25
140-150	29.04
150-160	18.60
160-170	9.14
170-180	1.59

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FSN SEED 2 LIGHT.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	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	100	94	89	85	85	94	89	85	81	80	76	73	71	68	66	63	60	59	54
2	90	81	74	68	68	85	77	70	65	69	63	59	61	57	53	54	51	48	44
3	82	71	63	56	56	77	67	60	54	60	54	49	54	49	44	47	43	40	37
4	75	63	54	47	47	70	59	51	45	53	47	41	48	42	38	42	38	34	31
5	69	56	47	40	40	65	53	45	39	48	41	36	43	37	33	38	33	30	27
6	63	50	41	35	35	60	48	40	34	43	36	31	38	33	28	34	30	26	23
7	59	45	37	31	31	55	43	35	29	39	32	27	35	29	25	31	27	23	21
8	54	41	33	27	27	51	39	31	26	36	29	24	32	26	22	29	24	21	18
9	51	38	30	24	24	48	36	28	23	33	26	22	29	24	20	27	22	18	16
10	47	35	27	22	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15

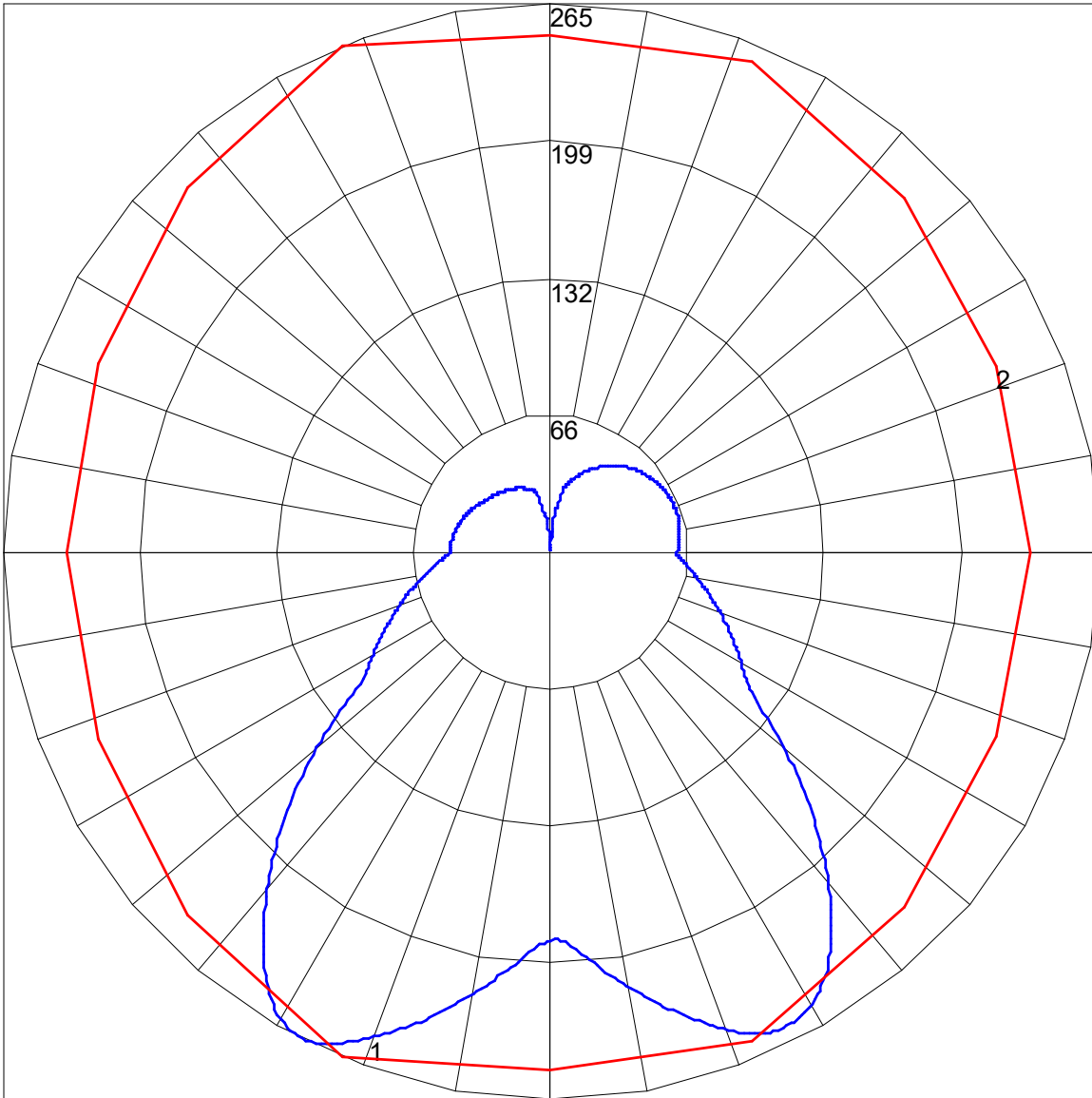
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FSN SEED 2 LIGHT.IES**

**UGR TABLE - CORRECTED**

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	13.1	14.3	13.9	15.1	16.0	11.4	12.5	12.1	13.3	14.2
	3H	15.4	16.5	16.2	17.3	18.3	13.2	14.3	14.0	15.0	16.0
	4H	16.6	17.6	17.3	18.4	19.3	14.0	15.0	14.8	15.8	16.8
	6H	17.7	18.6	18.4	19.4	20.4	14.8	15.7	15.5	16.5	17.5
	8H	18.2	19.1	19.0	19.9	20.9	15.1	16.0	15.9	16.8	17.8
	12H	18.7	19.5	19.5	20.3	21.4	15.4	16.2	16.2	17.1	18.1
4H	2H	13.8	14.8	14.5	15.6	16.5	12.3	13.3	13.1	14.1	15.1
	3H	16.3	17.2	17.1	18.0	19.0	14.4	15.2	15.1	16.0	17.0
	4H	17.6	18.4	18.4	19.2	20.2	15.3	16.1	16.1	16.9	17.9
	6H	18.9	19.6	19.7	20.4	21.4	16.2	16.9	17.0	17.7	18.7
	8H	19.5	20.1	20.3	21.0	22.0	16.6	17.2	17.4	18.1	19.1
	12H	20.1	20.7	20.9	21.6	22.6	17.0	17.6	17.8	18.4	19.5
8H	4H	18.0	18.7	18.8	19.5	20.5	16.0	16.6	16.8	17.5	18.5
	6H	19.5	20.1	20.3	20.9	22.0	17.1	17.6	17.9	18.5	19.5
	8H	20.3	20.8	21.1	21.6	22.7	17.6	18.1	18.4	19.0	20.0
	12H	21.0	21.5	21.9	22.4	23.5	18.1	18.6	19.0	19.4	20.5
12H	4H	18.1	18.7	18.9	19.5	20.6	16.2	16.8	17.0	17.6	18.7
	6H	19.6	20.1	20.5	21.0	22.1	17.3	17.8	18.2	18.7	19.8
	8H	20.5	20.9	21.3	21.8	22.9	18.0	18.4	18.8	19.3	20.4

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 264.937 Located At Horizontal Angle = 112.5, Vertical Angle = 27.5  
# 1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)