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IES INDOOR REPORT PHOTOMETRIC FILENAME : POR 3 LIGHT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 18097-B
 [TESTLAB] LightLab International (www.LightLabInternational.com)
 [MANUFAC] Justice Design Group, Los Angeles, CA 90071
 [LUMCAT] Limoges Translucent Porcelain (POR) 3-Light Bath Bar
 [LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: POR 3-Light
 [MORE] Steel formed housing and three translucent porcelain lenses.
 [MORE] 30 LEDs mounted in three 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	744
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	33
Total Luminaire Watts	22.49
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)	0.50 m
Luminous Height	0.14 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1326	1479	3147
55	1118	1166	2234
65	1000	1010	1859
75	929	914	1871
85	894	866	2094

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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>
0.0	116.519	116.519	116.519	116.519	116.519	116.519	116.519	116.519	116.519
0.5	115.391	115.726	116.170	116.223	116.599	117.069	117.432	117.459	117.472
1.0	115.686	116.075	116.264	116.344	116.747	117.499	118.077	118.305	118.479
1.5	116.613	116.841	116.841	116.640	117.136	118.117	118.963	119.500	119.715
2.0	117.647	117.741	117.674	117.096	117.593	118.788	119.997	120.830	121.098
2.5	118.909	118.990	118.641	117.781	118.171	119.594	121.165	122.294	122.602
3.0	120.413	120.158	119.715	118.587	118.761	120.427	122.482	123.744	124.160
3.5	121.931	121.568	120.910	119.406	119.446	121.286	123.704	125.262	125.920
4.0	123.502	123.126	122.025	120.319	120.131	122.294	125.060	126.806	127.451
4.5	125.087	124.536	123.314	121.179	120.870	123.301	126.376	128.418	129.170
5.0	126.578	126.148	124.563	122.106	121.568	124.295	127.612	129.895	130.795
5.5	128.082	127.558	125.812	123.140	122.334	125.288	128.968	131.533	132.406
6.0	129.814	129.116	127.088	124.133	123.099	126.363	130.392	133.158	134.287
6.5	131.372	130.620	128.458	125.100	123.811	127.384	131.721	134.730	135.777
7.0	132.930	132.071	129.747	126.135	124.630	128.418	133.145	136.368	137.496
7.5	134.475	133.696	131.063	127.155	125.436	129.492	134.569	137.966	139.162
8.0	135.938	135.186	132.420	128.136	126.242	130.553	135.912	139.524	140.760
8.5	137.443	136.731	133.723	129.170	126.981	131.627	137.322	141.082	142.358
9.0	139.135	138.168	135.052	130.204	127.840	132.688	138.772	142.586	143.956
9.5	140.720	139.659	136.409	131.211	128.713	133.776	140.021	144.050	145.554
10.0	142.237	141.216	137.698	132.259	129.465	134.783	141.364	145.675	147.126
10.5	143.741	142.855	139.054	133.346	130.271	135.871	142.761	147.166	148.710
11.0	145.460	144.265	140.357	134.381	131.077	136.946	144.050	148.657	150.282
11.5	147.072	145.769	141.633	135.509	131.896	138.020	145.407	150.094	151.746
12.0	148.563	147.314	142.989	136.543	132.715	139.095	146.723	151.638	153.263
12.5	149.785	148.697	144.399	137.550	133.508	140.209	148.012	152.981	154.754
13.0	150.644	150.053	145.648	138.598	134.273	141.243	149.315	154.458	156.083
13.5	151.182	151.128	147.032	139.618	135.106	142.331	150.577	155.815	157.198
14.0	151.356	151.813	148.267	140.558	135.912	143.338	151.813	157.050	157.937
14.5	151.772	152.377	149.570	141.619	136.623	144.373	153.035	158.058	158.340
15.0	152.081	152.739	150.792	142.640	137.510	145.393	154.324	158.783	158.514
15.5	152.390	153.021	151.960	143.674	138.316	146.360	155.493	159.065	158.461
16.0	152.498	153.384	152.954	144.695	139.001	147.394	156.661	159.240	158.380
16.5	152.632	153.424	153.854	145.648	139.739	148.388	157.856	159.213	158.192
17.0	152.645	153.518	154.633	146.615	140.612	149.315	158.917	159.078	157.910
17.5	152.820	153.720	155.251	147.623	141.310	150.241	159.830	158.931	157.803
18.0	152.726	153.693	155.640	148.549	142.049	151.235	160.650	158.675	157.440
18.5	152.820	153.679	155.976	149.489	142.828	152.135	161.160	158.434	157.077
19.0	152.793	153.747	156.124	150.429	143.580	153.089	161.442	158.165	156.728
19.5	152.592	153.545	156.231	151.383	144.332	153.962	161.549	157.870	156.325
20.0	152.336	153.491	156.271	152.229	145.044	154.915	161.496	157.467	156.003
20.5	152.122	153.371	156.258	153.169	145.836	155.775	161.348	157.118	155.533
21.0	151.625	153.035	156.204	154.015	146.562	156.674	161.133	156.715	155.090
21.5	151.356	152.699	156.097	154.902	147.314	157.561	160.851	156.218	154.646
22.0	151.088	152.444	155.922	155.707	148.066	158.367	160.556	155.761	154.069
22.5	150.644	152.001	155.748	156.473	148.831	159.226	160.260	155.197	153.384
23.0	150.215	151.477	155.560	157.144	149.543	159.978	159.844	154.606	152.820
23.5	149.597	150.859	155.184	157.614	150.174	160.771	159.374	154.042	152.054
24.0	149.006	150.215	154.848	158.017	150.926	161.509	158.917	153.277	151.276
24.5	148.496	149.691	154.458	158.367	151.584	162.234	158.407	152.431	150.577
25.0	147.878	148.979	153.921	158.649	152.256	162.866	157.829	151.719	149.785
25.5	147.193	148.307	153.411	158.863	152.927	163.349	157.279	150.859	148.885
26.0	146.441	147.542	152.780	158.917	153.505	163.779	156.554	149.933	148.025
26.5	145.729	146.750	152.122	159.078	154.123	164.047	155.895	149.046	147.005

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CANDELA TABULATION - (Cont.)

27.0	144.749	145.877	151.383	159.025	154.687	164.168	155.157	148.012	146.038
27.5	144.077	145.138	150.617	158.917	155.237	164.195	154.284	147.059	145.044
28.0	143.083	144.238	149.718	158.662	155.748	164.088	153.411	145.998	143.970
28.5	142.130	143.191	148.804	158.380	156.325	163.765	152.457	144.910	142.815
29.0	141.216	142.197	147.905	157.870	156.889	163.349	151.423	143.741	141.660
29.5	140.209	141.257	146.884	157.346	157.400	162.785	150.376	142.573	140.478
30.0	139.202	140.223	145.796	156.701	157.816	162.073	149.248	141.378	139.175
30.5	137.940	139.148	144.681	155.909	158.353	161.308	147.985	140.088	137.819
31.0	136.946	138.154	143.513	155.211	158.769	160.448	146.763	138.772	136.543
31.5	135.871	137.013	142.385	154.378	159.240	159.508	145.474	137.483	135.106
32.0	134.595	135.818	141.257	153.411	159.696	158.420	144.158	136.126	133.763
32.5	133.440	134.689	139.927	152.471	159.965	157.225	142.774	134.676	132.178
33.0	132.191	133.427	138.692	151.356	160.300	155.922	141.431	133.199	130.714
33.5	130.754	132.272	137.443	150.174	160.556	154.646	140.035	131.681	128.968
34.0	129.586	130.943	136.059	149.060	160.475	153.115	138.530	130.217	127.491
34.5	128.337	129.653	134.770	147.676	160.274	151.652	137.067	128.659	125.866
35.0	126.860	128.297	133.373	146.293	159.602	150.121	135.468	127.075	124.133
35.5	125.544	127.048	132.030	144.869	158.689	148.536	133.964	125.476	122.428
36.0	124.147	125.584	130.580	143.379	157.507	146.857	132.393	123.744	120.803
36.5	122.670	124.214	129.223	141.767	156.110	145.259	130.795	122.159	119.017
37.0	121.367	122.844	127.773	140.115	154.351	143.459	129.156	120.494	117.311
37.5	119.970	121.407	126.242	138.436	152.148	141.700	127.491	118.721	115.498
38.0	118.493	119.930	124.845	136.758	149.718	139.927	125.853	116.975	113.712
38.5	117.069	118.466	123.314	134.958	147.193	138.060	124.066	115.135	111.979
39.0	115.632	117.069	121.850	133.172	144.587	136.274	122.374	113.389	110.220
39.5	114.262	115.565	120.333	131.319	141.982	134.394	120.615	111.550	108.367
40.0	113.081	114.128	118.775	129.479	139.363	132.541	118.882	109.750	106.634
40.5	111.711	112.664	117.217	127.666	136.879	130.634	117.042	107.937	104.835
41.0	110.327	111.254	115.699	125.759	134.394	128.767	115.256	106.124	103.102
41.5	109.293	109.871	114.074	123.986	131.990	126.860	113.403	104.284	101.437
42.0	108.165	108.488	112.490	122.119	129.761	124.953	111.576	102.484	99.758
42.5	107.225	107.118	110.865	120.239	127.464	123.005	109.669	100.712	98.146
43.0	106.419	105.842	109.280	118.385	125.302	121.098	107.762	98.979	96.468
43.5	105.721	104.741	107.641	116.438	123.274	119.097	105.896	97.314	95.071
44.0	105.143	103.626	106.057	114.531	121.246	117.083	103.908	95.554	93.715
44.5	104.284	102.766	104.459	112.731	119.285	115.109	101.987	94.010	92.439
45.0	103.572	101.934	102.820	110.703	117.324	113.013	100.040	92.519	91.405
45.5	102.901	101.141	101.316	108.837	115.498	111.026	98.200	91.163	90.384
46.0	102.162	100.483	99.745	106.930	113.564	108.904	96.293	89.900	89.417
46.5	101.383	99.731	98.214	105.023	111.751	106.782	94.399	88.799	88.396
47.0	100.591	98.939	96.790	103.008	109.804	104.673	92.439	87.778	87.362
47.5	99.892	98.240	95.313	101.074	107.829	102.498	90.653	86.758	86.328
48.0	99.181	97.529	94.050	99.140	105.855	100.336	88.866	85.791	85.254
48.5	98.402	96.709	92.815	97.099	103.814	98.106	87.080	84.770	84.354
49.0	97.770	95.984	91.754	95.192	101.732	95.984	85.442	83.790	83.387
49.5	97.045	95.232	90.666	93.177	99.597	93.768	83.857	82.783	82.380
50.0	96.333	94.520	89.712	91.230	97.421	91.660	82.460	81.856	81.480
50.5	95.622	93.755	88.732	89.363	95.138	89.471	81.144	80.849	80.540
51.0	94.977	93.070	87.899	87.537	92.855	87.268	79.949	79.935	79.546
51.5	94.386	92.291	87.147	85.495	90.558	85.133	78.888	78.955	78.700
52.0	93.607	91.660	86.476	83.709	88.128	83.011	77.881	78.109	77.827
52.5	93.070	90.961	85.724	81.910	85.643	80.916	77.021	77.182	76.940
53.0	92.398	90.236	85.012	80.056	83.293	78.848	76.054	76.229	76.068
53.5	91.834	89.578	84.273	78.458	80.862	76.887	75.154	75.530	75.181
54.0	91.257	88.987	83.588	76.806	78.485	74.939	74.295	74.563	74.389
54.5	90.491	88.289	82.863	75.302	76.229	73.153	73.422	73.744	73.664

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CANDELA TABULATION - (Cont.)

55.0	89.887	87.752	82.165	73.946	73.932	71.340	72.562	72.885	72.804
55.5	89.484	87.147	81.453	72.817	71.770	69.648	71.703	72.106	72.092
56.0	88.933	86.529	80.795	71.662	69.594	68.224	70.843	71.313	71.286
56.5	88.383	85.912	80.056	70.736	67.566	66.868	70.011	70.548	70.508
57.0	87.913	85.415	79.398	69.742	65.673	65.834	69.232	69.755	69.782
57.5	87.349	84.743	78.740	68.802	63.793	65.015	68.426	68.990	69.057
58.0	86.906	84.206	78.042	68.117	62.047	64.343	67.566	68.265	68.318
58.5	86.288	83.709	77.451	67.593	60.516	63.631	66.801	67.513	67.539
59.0	85.871	83.145	76.833	66.962	59.213	62.973	66.049	66.747	66.855
59.5	85.348	82.608	76.188	66.411	58.138	62.329	65.243	66.089	66.237
60.0	84.784	82.111	75.597	65.834	57.333	61.657	64.545	65.364	65.458
60.5	84.287	81.601	75.020	65.243	56.661	60.945	63.793	64.612	64.853
61.0	83.843	81.077	74.416	64.625	56.111	60.247	63.027	63.954	64.075
61.5	83.481	80.620	73.731	64.075	55.614	59.589	62.355	63.255	63.497
62.0	82.944	80.083	73.220	63.390	55.144	58.944	61.617	62.584	62.758
62.5	82.447	79.573	72.643	62.839	54.593	58.246	60.959	61.926	62.060
63.0	82.017	79.076	72.039	62.235	54.069	57.574	60.287	61.174	61.483
63.5	81.453	78.579	71.501	61.644	53.532	56.903	59.602	60.596	60.771
64.0	81.010	78.149	71.004	61.080	52.981	56.299	58.891	59.952	60.166
64.5	80.687	77.666	70.413	60.448	52.417	55.614	58.273	59.334	59.508
65.0	80.231	77.182	69.970	59.884	51.880	54.996	57.615	58.662	58.891
65.5	79.720	76.712	69.366	59.347	51.316	54.284	56.889	58.112	58.259
66.0	79.277	76.296	68.882	58.756	50.765	53.680	56.285	57.467	57.655
66.5	78.888	75.785	68.345	58.138	50.228	53.062	55.614	56.836	57.091
67.0	78.471	75.396	67.822	57.682	49.584	52.390	54.929	56.205	56.460
67.5	77.975	74.926	67.284	57.118	49.087	51.732	54.378	55.614	55.842
68.0	77.545	74.442	66.814	56.473	48.563	51.209	53.774	54.996	55.291
68.5	77.169	73.999	66.331	55.976	47.972	50.510	53.143	54.459	54.768
69.0	76.779	73.610	65.807	55.426	47.394	49.973	52.592	53.854	54.069
69.5	76.350	73.153	65.337	54.835	46.857	49.396	51.974	53.277	53.532
70.0	75.974	72.764	64.813	54.351	46.280	48.737	51.423	52.713	53.022
70.5	75.477	72.307	64.289	53.827	45.716	48.160	50.833	52.176	52.323
71.0	75.047	71.877	63.913	53.223	45.165	47.582	50.242	51.558	51.853
71.5	74.711	71.542	63.443	52.753	44.628	47.005	49.664	51.034	51.303
72.0	74.322	71.098	62.946	52.202	44.104	46.387	49.127	50.457	50.765
72.5	73.959	70.682	62.530	51.638	43.553	45.850	48.563	49.946	50.201
73.0	73.516	70.279	62.073	51.195	43.016	45.273	48.039	49.369	49.678
73.5	73.099	69.903	61.603	50.645	42.479	44.695	47.462	48.872	49.127
74.0	72.817	69.460	61.174	50.107	41.969	44.144	46.951	48.335	48.630
74.5	72.509	69.044	60.690	49.664	41.391	43.580	46.414	47.811	48.079
75.0	72.065	68.708	60.274	49.194	40.921	43.083	45.917	47.327	47.529
75.5	71.622	68.292	59.898	48.657	40.411	42.573	45.380	46.750	47.032
76.0	71.260	67.916	59.481	48.200	39.860	41.996	44.843	46.253	46.495
76.5	70.830	67.539	59.011	47.744	39.336	41.526	44.332	45.743	46.025
77.0	70.400	67.137	58.676	47.260	38.880	41.015	43.795	45.273	45.541
77.5	70.185	66.814	58.232	46.763	38.343	40.451	43.312	44.735	45.098
78.0	69.782	66.411	57.762	46.334	37.899	39.995	42.828	44.238	44.561
78.5	69.326	66.008	57.427	45.796	37.376	39.498	42.345	43.755	44.091
79.0	69.084	65.632	57.024	45.407	36.892	38.960	41.834	43.285	43.513
79.5	68.614	65.270	56.567	45.004	36.409	38.464	41.351	42.775	43.070
80.0	68.399	64.894	56.231	44.480	35.952	37.980	40.867	42.305	42.600
80.5	68.010	64.571	55.802	44.077	35.522	37.510	40.357	41.875	42.184
81.0	67.620	64.222	55.412	43.648	35.052	37.027	39.954	41.378	41.633
81.5	67.365	63.806	55.063	43.218	34.663	36.624	39.498	40.935	41.190
82.0	66.922	63.457	54.647	42.842	34.220	36.140	38.987	40.532	40.773
82.5	66.626	63.175	54.230	42.452	33.763	35.643	38.558	40.075	40.330

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CANDELA TABULATION - (Cont.)

83.0	66.183	62.758	53.908	42.009	33.320	35.240	38.128	39.619	39.860
83.5	65.861	62.463	53.545	41.606	32.917	34.824	37.671	39.148	39.390
84.0	65.579	62.141	53.143	41.270	32.501	34.367	37.268	38.759	38.947
84.5	65.230	61.751	52.847	40.841	32.111	33.938	36.812	38.276	38.490
85.0	64.947	61.402	52.498	40.491	31.749	33.508	36.422	37.886	38.168
85.5	64.639	61.080	52.108	40.129	31.319	33.051	36.046	37.456	37.698
86.0	64.316	60.744	51.773	39.739	30.970	32.689	35.563	36.946	37.362
86.5	63.981	60.475	51.504	39.404	30.580	32.272	35.160	36.570	36.812
87.0	63.618	60.140	51.115	39.148	30.231	31.883	34.797	36.221	36.436
87.5	63.322	59.790	50.833	38.746	29.962	31.520	34.394	35.778	36.086
88.0	63.040	59.589	50.551	38.490	29.559	31.158	34.045	35.415	35.643
88.5	62.732	59.280	50.242	38.208	29.318	30.795	33.669	35.052	35.254
89.0	62.678	59.105	50.013	37.899	29.036	30.540	33.306	34.636	34.811
89.5	62.705	59.092	50.013	37.873	28.834	30.271	32.971	34.300	34.475
90.0	62.584	59.173	50.107	37.926	28.942	30.204	32.836	34.099	34.247
90.5	62.785	59.253	50.121	37.967	28.942	30.231	32.756	33.991	34.179
91.0	62.960	59.307	50.201	38.047	28.915	30.231	32.689	33.938	34.112
91.5	63.014	59.468	50.268	38.128	29.009	30.244	32.675	33.911	33.991
92.0	63.121	59.455	50.403	38.101	29.022	30.244	32.608	33.803	33.951
92.5	63.202	59.562	50.457	38.208	29.103	30.204	32.554	33.696	33.857
93.0	63.309	59.656	50.457	38.302	29.076	30.123	32.554	33.656	33.803
93.5	63.470	59.723	50.645	38.343	29.210	30.137	32.554	33.602	33.709
94.0	63.537	59.858	50.698	38.450	29.183	30.110	32.433	33.548	33.602
94.5	63.631	59.898	50.779	38.477	29.251	30.043	32.474	33.454	33.441
95.0	63.833	59.992	50.833	38.544	29.251	30.043	32.380	33.266	33.347
95.5	63.806	60.140	50.900	38.625	29.291	30.029	32.313	33.212	33.306
96.0	63.967	60.207	50.994	38.678	29.318	30.003	32.245	33.145	33.132
96.5	64.048	60.274	51.155	38.719	29.398	29.962	32.165	32.998	33.051
97.0	64.142	60.368	51.128	38.813	29.385	29.935	32.125	32.904	32.877
97.5	64.209	60.448	51.209	38.920	29.398	29.868	32.084	32.877	32.809
98.0	64.357	60.462	51.303	38.907	29.506	29.895	31.963	32.742	32.702
98.5	64.370	60.583	51.370	39.028	29.519	29.815	31.923	32.648	32.568
99.0	64.451	60.663	51.370	39.135	29.559	29.734	31.896	32.541	32.460
99.5	64.545	60.690	51.464	39.095	29.586	29.734	31.749	32.433	32.272
100.0	64.571	60.757	51.504	39.175	29.653	29.680	31.722	32.339	32.192
100.5	64.679	60.771	51.517	39.242	29.667	29.640	31.681	32.205	32.057
101.0	64.665	60.811	51.571	39.323	29.734	29.586	31.601	32.057	31.923
101.5	64.813	60.838	51.625	39.350	29.761	29.492	31.507	31.977	31.735
102.0	64.759	60.878	51.611	39.417	29.868	29.465	31.413	31.829	31.681
102.5	64.800	60.878	51.625	39.430	29.868	29.425	31.292	31.695	31.547
103.0	64.813	60.918	51.652	39.484	29.949	29.318	31.184	31.587	31.426
103.5	64.813	60.932	51.625	39.565	29.922	29.277	31.104	31.507	31.184
104.0	64.921	60.945	51.571	39.484	29.949	29.210	30.983	31.372	31.131
104.5	64.947	60.999	51.585	39.565	29.976	29.130	30.822	31.211	30.916
105.0	64.827	61.012	51.558	39.605	30.056	29.049	30.674	31.117	30.768
105.5	64.894	60.932	51.544	39.524	30.083	28.982	30.526	30.943	30.594
106.0	64.947	60.945	51.585	39.551	30.043	28.928	30.379	30.755	30.486
106.5	64.921	60.972	51.558	39.551	30.083	28.861	30.244	30.620	30.312
107.0	64.961	60.972	51.517	39.538	30.043	28.807	30.083	30.419	30.177
107.5	64.921	60.932	51.504	39.524	30.043	28.727	29.949	30.258	29.949
108.0	64.921	60.918	51.477	39.592	30.083	28.566	29.801	29.989	29.721
108.5	64.947	60.905	51.504	39.524	30.029	28.539	29.667	29.828	29.479
109.0	64.827	60.892	51.437	39.524	30.056	28.391	29.519	29.600	29.331
109.5	64.867	60.798	51.370	39.471	29.989	28.351	29.371	29.425	28.995
110.0	64.800	60.811	51.329	39.471	30.029	28.284	29.224	29.157	28.888
110.5	64.813	60.704	51.329	39.457	29.976	28.203	29.036	29.022	28.552

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CANDELA TABULATION - (Cont.)

111.0	64.733	60.717	51.276	39.498	29.989	28.122	28.915	28.794	28.310
111.5	64.692	60.677	51.276	39.444	29.922	28.055	28.700	28.606	28.190
112.0	64.531	60.650	51.222	39.430	29.909	27.921	28.566	28.364	27.894
112.5	64.571	60.596	51.115	39.390	29.935	27.881	28.445	28.176	27.626
113.0	64.545	60.516	51.115	39.350	29.922	27.760	28.297	27.975	27.384
113.5	64.464	60.448	51.047	39.296	29.882	27.706	28.082	27.693	27.196
114.0	64.357	60.408	50.953	39.296	29.868	27.639	27.948	27.545	26.981
114.5	64.383	60.328	50.913	39.229	29.855	27.505	27.814	27.236	26.712
115.0	64.222	60.234	50.792	39.175	29.788	27.424	27.532	26.941	26.403
115.5	64.169	60.247	50.739	39.135	29.801	27.317	27.464	26.672	26.162
116.0	64.034	60.059	50.631	39.041	29.694	27.303	27.236	26.309	25.880
116.5	64.048	60.005	50.564	39.028	29.734	27.142	27.008	26.027	25.598
117.0	63.873	59.911	50.457	38.960	29.667	27.088	26.914	25.772	25.114
117.5	63.725	59.777	50.416	38.893	29.600	26.994	26.766	25.410	24.859
118.0	63.645	59.683	50.255	38.786	29.546	26.873	26.551	25.141	24.429
118.5	63.524	59.629	50.174	38.732	29.465	26.779	26.363	24.846	24.120
119.0	63.363	59.455	50.080	38.705	29.425	26.699	26.256	24.537	23.744
119.5	63.228	59.374	49.986	38.638	29.425	26.618	26.014	24.187	23.341
120.0	63.108	59.293	49.906	38.531	29.331	26.524	25.906	23.825	22.979
120.5	63.014	59.079	49.798	38.396	29.264	26.390	25.705	23.503	22.630
121.0	62.879	58.985	49.637	38.396	29.157	26.296	25.490	23.207	22.267
121.5	62.638	58.891	49.503	38.329	29.157	26.162	25.396	22.912	21.891
122.0	62.530	58.689	49.409	38.168	29.116	26.054	25.208	22.576	21.501
122.5	62.342	58.555	49.315	38.074	29.009	26.014	25.034	22.294	21.179
123.0	62.194	58.434	49.140	38.034	28.942	25.853	24.886	21.985	20.817
123.5	61.993	58.179	48.993	37.859	28.888	25.772	24.738	21.716	20.373
124.0	61.966	57.991	48.899	37.805	28.861	25.692	24.496	21.394	20.078
124.5	61.630	57.856	48.751	37.711	28.754	25.557	24.375	21.125	19.756
125.0	61.402	57.642	48.617	37.604	28.660	25.530	24.255	20.830	19.420
125.5	61.174	57.467	48.415	37.456	28.592	25.410	24.107	20.575	19.165
126.0	60.905	57.225	48.267	37.376	28.566	25.356	24.013	20.346	18.883
126.5	60.798	56.997	48.093	37.241	28.498	25.289	23.838	20.078	18.601
127.0	60.395	56.822	47.945	37.174	28.458	25.222	23.637	19.863	18.319
127.5	60.126	56.554	47.744	37.053	28.404	25.114	23.529	19.675	18.104
128.0	59.938	56.312	47.569	36.906	28.310	25.087	23.408	19.379	17.862
128.5	59.643	56.043	47.381	36.825	28.310	25.060	23.234	19.138	17.634
129.0	59.347	55.896	47.220	36.677	28.190	24.940	23.100	18.869	17.405
129.5	59.146	55.600	46.992	36.583	28.136	24.859	23.006	18.641	17.258
130.0	58.756	55.412	46.804	36.395	28.082	24.711	22.764	18.426	17.043
130.5	58.528	55.144	46.589	36.301	28.082	24.671	22.670	18.225	16.761
131.0	58.259	54.875	46.387	36.221	27.948	24.590	22.536	18.036	16.640
131.5	58.031	54.647	46.213	36.046	27.894	24.537	22.374	17.781	16.519
132.0	57.642	54.378	45.957	36.006	27.854	24.483	22.240	17.593	16.291
132.5	57.292	54.029	45.769	35.804	27.773	24.402	22.146	17.392	16.089
133.0	57.051	53.774	45.555	35.643	27.652	24.322	21.985	17.217	16.049
133.5	56.688	53.505	45.326	35.536	27.639	24.255	21.864	17.083	15.847
134.0	56.393	53.183	45.111	35.375	27.518	24.228	21.716	16.895	15.780
134.5	56.111	52.887	44.883	35.200	27.505	24.147	21.622	16.693	15.606
135.0	55.775	52.605	44.601	35.039	27.397	24.040	21.488	16.573	15.471
135.5	55.452	52.243	44.426	34.905	27.317	24.053	21.354	16.425	15.337
136.0	55.090	52.055	44.158	34.743	27.223	23.905	21.193	16.183	15.162
136.5	54.754	51.746	43.930	34.636	27.155	23.838	21.045	16.076	14.988
137.0	54.378	51.383	43.688	34.435	27.088	23.758	20.991	15.915	14.800
137.5	54.002	51.074	43.446	34.287	26.954	23.691	20.790	15.727	14.733
138.0	53.599	50.752	43.191	34.152	26.927	23.570	20.722	15.646	14.692
138.5	53.290	50.403	42.976	33.978	26.847	23.570	20.669	15.512	14.518

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CANDELA TABULATION - (Cont.)

139.0	52.887	50.121	42.694	33.776	26.699	23.529	20.481	15.324	14.410
139.5	52.538	49.758	42.425	33.615	26.632	23.435	20.387	15.216	14.276
140.0	52.270	49.436	42.063	33.481	26.591	23.408	20.293	15.068	14.142
140.5	51.894	49.046	41.875	33.226	26.430	23.288	20.118	14.961	14.021
141.0	51.517	48.791	41.579	33.132	26.377	23.194	20.064	14.773	13.860
141.5	51.195	48.361	41.338	32.917	26.269	23.180	19.930	14.639	13.725
142.0	50.806	48.039	41.029	32.702	26.135	23.100	19.823	14.478	13.564
142.5	50.336	47.703	40.773	32.541	26.054	23.006	19.756	14.410	13.403
143.0	49.960	47.314	40.478	32.326	25.960	22.979	19.662	14.196	13.363
143.5	49.557	46.924	40.156	32.111	25.853	22.858	19.500	14.075	13.242
144.0	49.181	46.562	39.874	31.950	25.705	22.764	19.474	13.967	13.161
144.5	48.778	46.186	39.592	31.775	25.611	22.791	19.447	13.887	13.067
145.0	48.348	45.863	39.336	31.507	25.490	22.683	19.299	13.712	13.000
145.5	47.959	45.487	39.041	31.359	25.410	22.589	19.205	13.645	12.987
146.0	47.515	45.085	38.719	31.158	25.275	22.482	19.165	13.551	13.067
146.5	47.126	44.668	38.383	30.943	25.128	22.442	19.044	13.349	13.054
147.0	46.736	44.306	38.128	30.728	24.993	22.361	19.057	13.255	13.014
147.5	46.334	43.849	37.819	30.513	24.953	22.294	18.936	13.175	13.054
148.0	45.850	43.473	37.483	30.312	24.778	22.200	18.856	13.067	13.081
148.5	45.393	43.110	37.201	30.083	24.711	22.119	18.789	12.947	13.108
149.0	44.910	42.748	36.865	29.895	24.550	22.065	18.762	12.826	13.175
149.5	44.574	42.331	36.543	29.627	24.402	22.025	18.681	12.772	13.242
150.0	44.118	41.875	36.221	29.439	24.241	21.891	18.614	12.678	13.229
150.5	43.674	41.526	35.885	29.224	24.161	21.864	18.574	12.624	13.309
151.0	43.245	41.042	35.590	28.955	24.013	21.757	18.493	12.611	13.403
151.5	42.855	40.653	35.281	28.767	23.879	21.703	18.426	12.503	13.349
152.0	42.291	40.290	34.918	28.579	23.758	21.595	18.372	12.382	13.323
152.5	41.834	39.820	34.623	28.297	23.597	21.542	18.265	12.369	13.376
153.0	41.485	39.377	34.220	28.015	23.489	21.475	18.278	12.315	13.363
153.5	40.948	38.987	33.938	27.800	23.328	21.367	18.251	12.302	13.417
154.0	40.491	38.558	33.575	27.585	23.194	21.273	18.144	12.275	13.376
154.5	39.995	38.101	33.199	27.317	23.073	21.179	18.144	12.275	13.349
155.0	39.498	37.631	32.877	27.061	22.952	21.072	18.063	12.262	13.349
155.5	39.054	37.174	32.541	26.793	22.791	20.991	17.956	12.288	13.430
156.0	38.625	36.771	32.178	26.605	22.630	20.937	17.956	12.302	13.430
156.5	38.034	36.328	31.789	26.309	22.536	20.817	17.956	12.248	13.511
157.0	37.671	35.912	31.480	26.027	22.321	20.736	17.875	12.141	13.484
157.5	37.147	35.455	31.090	25.772	22.146	20.602	17.848	12.087	13.417
158.0	36.677	34.958	30.782	25.557	22.025	20.534	17.835	11.993	13.417
158.5	36.261	34.569	30.459	25.262	21.824	20.427	17.768	11.818	13.403
159.0	35.737	34.139	30.043	24.993	21.663	20.279	17.741	11.751	13.417
159.5	35.254	33.656	29.694	24.765	21.501	20.239	17.714	11.590	13.430
160.0	34.757	33.172	29.318	24.429	21.327	20.091	17.620	11.577	13.417
160.5	34.314	32.729	28.969	24.174	21.179	20.038	17.540	11.510	13.403
161.0	33.790	32.245	28.566	23.932	21.031	19.903	17.459	11.483	13.511
161.5	33.226	31.789	28.230	23.583	20.830	19.796	17.338	11.321	13.564
162.0	32.702	31.332	27.773	23.288	20.669	19.662	17.217	11.214	13.631
162.5	32.205	30.862	27.424	23.059	20.575	19.568	17.029	11.093	13.631
163.0	31.708	30.365	27.048	22.750	20.320	19.433	16.613	11.013	13.658
163.5	31.171	29.922	26.632	22.482	20.212	19.299	16.170	10.811	13.739
164.0	30.728	29.425	26.269	22.227	20.051	19.259	15.619	10.475	13.699
164.5	30.177	28.915	25.880	21.864	19.850	19.097	14.934	10.180	13.443
165.0	29.653	28.404	25.490	21.582	19.662	18.842	14.303	10.032	13.041
165.5	29.089	27.948	25.087	21.260	19.487	18.547	13.631	9.965	12.503
166.0	28.606	27.451	24.671	21.005	19.259	18.077	12.826	9.911	11.886
166.5	28.028	26.927	24.201	20.722	19.003	17.432	12.154	9.777	11.013

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CANDELA TABULATION - (Cont.)

167.0	27.437	26.430	23.825	20.454	18.601	16.747	11.617	9.710	9.978
167.5	26.914	25.933	23.435	20.118	18.023	15.928	11.080	9.428	9.079
168.0	26.309	25.342	22.898	19.863	17.217	15.042	10.744	9.240	8.004
168.5	25.759	24.819	22.495	19.541	16.505	14.209	10.529	9.012	7.010
169.0	25.195	24.335	22.119	19.057	15.539	13.323	10.287	8.568	5.829
169.5	24.604	23.825	21.622	18.466	14.679	12.463	10.193	8.085	4.566
170.0	23.986	23.274	21.125	17.674	13.712	11.805	10.005	7.387	3.398
170.5	23.395	22.576	20.602	16.855	12.893	11.375	9.737	6.527	2.458
171.0	22.791	21.931	19.836	15.995	12.208	10.945	9.522	5.775	1.504
171.5	22.240	21.381	19.178	15.095	11.738	10.704	9.146	5.130	0.994
172.0	21.595	20.763	18.533	14.236	11.321	10.529	8.501	4.365	0.886
172.5	21.045	19.917	17.634	13.605	10.959	10.220	7.749	3.613	0.873
173.0	20.078	19.151	16.774	13.014	10.650	9.871	6.984	2.887	0.833
173.5	18.923	18.278	15.807	12.315	10.261	9.159	5.976	2.444	0.712
174.0	18.305	17.150	14.692	11.751	9.938	8.125	4.942	2.256	0.618
174.5	17.298	16.062	13.685	11.107	9.334	7.091	3.948	2.028	0.524
175.0	16.089	14.894	12.718	10.301	8.461	5.909	3.156	1.853	0.403
175.5	14.518	13.537	11.577	9.482	7.387	4.620	2.699	1.531	0.295
176.0	12.947	12.033	10.449	8.501	6.245	3.505	2.391	1.276	0.389
176.5	11.254	10.341	9.119	7.118	4.915	2.699	2.041	0.900	0.309
177.0	9.280	8.622	7.628	5.708	3.720	2.270	1.719	0.591	0.255
177.5	7.239	6.688	6.218	4.445	2.740	2.001	1.450	0.389	0.255
178.0	5.063	4.687	4.741	3.022	2.015	1.665	1.142	0.322	0.430
178.5	3.223	2.995	3.129	1.920	1.625	1.370	0.860	0.349	0.295
179.0	1.894	1.800	1.679	1.195	1.262	1.088	0.672	0.322	0.336
179.5	0.672	1.021	0.645	0.645	0.873	0.873	0.416	0.336	0.470
180.0	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	54.74	N.A.	7.40
0-30	125.71	N.A.	16.90
0-40	211.54	N.A.	28.50
0-60	361.97	N.A.	48.70
0-80	478.89	N.A.	64.40
0-90	526.14	N.A.	70.80
10-90	513.73	N.A.	69.10
20-40	156.79	N.A.	21.10
20-50	237.69	N.A.	32.00
40-70	212.42	N.A.	28.60
60-80	116.92	N.A.	15.70
70-80	54.93	N.A.	7.40
80-90	47.25	N.A.	6.40
90-110	86.38	N.A.	11.60
90-120	124.45	N.A.	16.70
90-130	156.28	N.A.	21.00
90-150	199.23	N.A.	26.80
90-180	217.40	N.A.	29.20
110-180	131.02	N.A.	17.60
0-180	743.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	12.40
10-20	42.34
20-30	70.97
30-40	85.82
40-50	80.89
50-60	69.54
60-70	61.99
70-80	54.93
80-90	47.25
90-100	44.02
100-110	42.35
110-120	38.08
120-130	31.83
130-140	24.94
140-150	18.00
150-160	11.53
160-170	5.66
170-180	0.98

IES INDOOR REPORT
PHOTOMETRIC FILENAME : POR 3 LIGHT.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	95	95	95	85	85	85	75	75	75	71
1	100	94	89	85	94	89	85	81	80	76	73	71	68	66	63	60	59	54
2	90	81	74	68	85	77	70	65	69	63	59	61	57	53	54	51	48	44
3	82	71	63	56	77	67	60	54	60	54	49	54	49	44	47	43	40	37
4	75	63	54	47	70	59	51	45	53	47	41	48	42	38	42	38	34	31
5	69	56	47	40	65	53	45	39	48	41	36	43	37	33	38	33	30	27
6	63	50	41	35	60	48	39	34	43	36	31	38	33	28	34	30	26	23
7	59	45	37	31	55	43	35	29	39	32	27	35	29	25	31	27	23	21
8	54	41	33	27	51	39	31	26	35	29	24	32	26	22	29	24	21	18
9	51	38	30	24	48	36	28	23	33	26	22	29	24	20	27	22	18	16
10	47	35	27	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15

IES INDOOR REPORT
PHOTOMETRIC FILENAME : POR 3 LIGHT.IES

UGR TABLE - CORRECTED

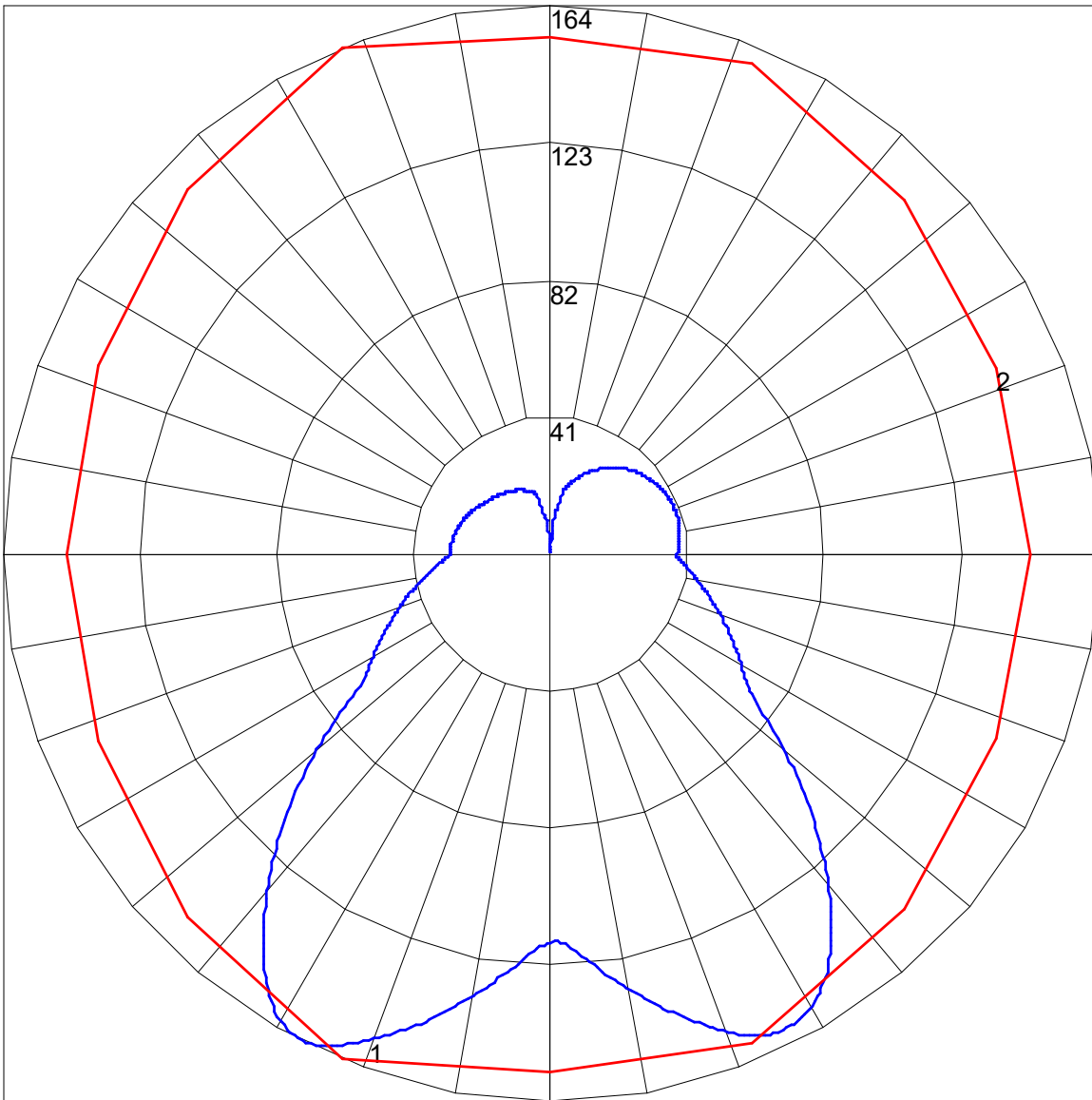
Reflectances

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	10.2	11.4	10.9	12.1	13.1	8.4	9.6	9.2	10.4	11.3
	3H	12.5	13.6	13.3	14.3	15.3	10.3	11.3	11.0	12.1	13.1
	4H	13.6	14.6	14.4	15.4	16.4	11.1	12.1	11.8	12.8	13.8
	6H	14.7	15.6	15.5	16.4	17.4	11.8	12.7	12.6	13.5	14.5
	8H	15.2	16.1	16.0	16.9	17.9	12.1	13.0	12.9	13.8	14.8
	12H	15.7	16.6	16.5	17.4	18.4	12.4	13.3	13.2	14.1	15.1
4H	2H	10.9	11.8	11.6	12.6	13.6	9.4	10.4	10.2	11.2	12.2
	3H	13.4	14.3	14.2	15.1	16.1	11.4	12.3	12.2	13.1	14.1
	4H	14.7	15.5	15.5	16.3	17.3	12.4	13.2	13.2	14.0	15.0
	6H	15.9	16.6	16.8	17.5	18.5	13.3	13.9	14.1	14.8	15.8
	8H	16.5	17.2	17.4	18.0	19.1	13.6	14.3	14.5	15.1	16.2
	12H	17.1	17.7	18.0	18.6	19.6	14.0	14.6	14.9	15.5	16.5
8H	4H	15.1	15.7	15.9	16.6	17.6	13.1	13.7	13.9	14.6	15.6
	6H	16.6	17.1	17.4	18.0	19.1	14.2	14.7	15.0	15.6	16.6
	8H	17.3	17.8	18.2	18.7	19.8	14.7	15.2	15.5	16.1	17.1
	12H	18.1	18.6	19.0	19.4	20.5	15.2	15.6	16.0	16.5	17.6
12H	4H	15.2	15.8	16.0	16.6	17.7	13.3	13.9	14.1	14.7	15.8
	6H	16.7	17.2	17.6	18.1	19.2	14.5	15.0	15.3	15.8	16.9
	8H	17.6	18.0	18.4	18.9	20.0	15.1	15.5	15.9	16.4	17.5

Maximum UGR = 20.5

POLAR GRAPH



Maximum Candela = 164.195 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.)