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IES INDOOR REPORT

PHOTOMETRIC FILENAME : POR 4 LIGHT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 18097-C

[TESTLAB] LightLab International (www.LightLabInternational.com)

[MANUFAC] Justice Design Group, Los Angeles, CA 90071

[LUMCAT] Limoges Translucent Porcelain (POR) 4-Light Bath Bar

[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: POR 4-Light

[MORE] Steel formed housing and four translucent porcelain lenses.

[MORE] 40 LEDs mounted in four 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 18, 2018

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	990
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	33
Total Luminaire Watts	29.99
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)	0.66 m
Luminous Height	0.14 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1325	1509	3327
55	1117	1193	2405
65	999	1037	2051
75	928	942	2145
85	893	896	2586

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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	155.214	155.214	155.214	155.214	155.214	155.214	155.214	155.214	155.214
0.5	153.711	154.158	154.749	154.820	155.321	155.947	156.430	156.466	156.484
1.0	154.104	154.623	154.874	154.981	155.518	156.520	157.289	157.593	157.826
1.5	155.339	155.643	155.643	155.375	156.037	157.343	158.470	159.185	159.471
2.0	156.716	156.842	156.752	155.983	156.645	158.237	159.847	160.956	161.314
2.5	158.398	158.505	158.040	156.895	157.414	159.310	161.404	162.906	163.318
3.0	160.402	160.062	159.471	157.969	158.201	160.420	163.157	164.838	165.393
3.5	162.423	161.940	161.064	159.060	159.114	161.565	164.785	166.860	167.737
4.0	164.516	164.016	162.549	160.277	160.026	162.906	166.592	168.917	169.776
4.5	166.627	165.894	164.266	161.421	161.010	164.248	168.345	171.064	172.066
5.0	168.613	168.041	165.930	162.656	161.940	165.572	169.991	173.032	174.231
5.5	170.617	169.919	167.594	164.033	162.960	166.896	171.798	175.215	176.378
6.0	172.925	171.994	169.293	165.357	163.980	168.327	173.694	177.379	178.882
6.5	175.000	173.998	171.118	166.645	164.928	169.687	175.465	179.472	180.868
7.0	177.075	175.930	172.835	168.023	166.019	171.064	177.361	181.655	183.158
7.5	179.133	178.095	174.589	169.383	167.093	172.495	179.258	183.784	185.376
8.0	181.083	180.081	176.395	170.688	168.166	173.909	181.047	185.859	187.505
8.5	183.086	182.138	178.131	172.066	169.150	175.340	182.925	187.934	189.634
9.0	185.340	184.052	179.902	173.444	170.295	176.753	184.857	189.938	191.763
9.5	187.451	186.038	181.709	174.785	171.458	178.202	186.521	191.888	193.892
10.0	189.473	188.113	183.426	176.181	172.460	179.544	188.310	194.053	195.985
10.5	191.477	190.296	185.233	177.630	173.533	180.993	190.171	196.039	198.096
11.0	193.767	192.174	186.968	179.007	174.606	182.424	191.888	198.024	200.189
11.5	195.913	194.178	188.668	180.510	175.698	183.856	193.695	199.939	202.139
12.0	197.899	196.235	190.475	181.888	176.789	185.287	195.448	201.996	204.161
12.5	199.527	198.078	192.353	183.229	177.844	186.772	197.166	203.785	206.146
13.0	200.672	199.885	194.017	184.625	178.864	188.149	198.901	205.753	207.918
13.5	201.388	201.316	195.860	185.984	179.973	189.598	200.583	207.560	209.402
14.0	201.620	202.229	197.506	187.237	181.047	190.940	202.229	209.206	210.386
14.5	202.175	202.980	199.241	188.650	181.995	192.318	203.857	210.547	210.923
15.0	202.586	203.463	200.869	190.010	183.176	193.677	205.574	211.513	211.156
15.5	202.998	203.839	202.425	191.387	184.249	194.965	207.130	211.889	211.084
16.0	203.141	204.322	203.749	192.747	185.162	196.343	208.687	212.122	210.977
16.5	203.320	204.375	204.948	194.017	186.145	197.667	210.279	212.086	210.726
17.0	203.338	204.501	205.985	195.305	187.308	198.901	211.692	211.907	210.351
17.5	203.570	204.769	206.808	196.647	188.239	200.135	212.909	211.710	210.208
18.0	203.445	204.733	207.327	197.881	189.223	201.459	214.000	211.370	209.724
18.5	203.570	204.715	207.774	199.134	190.260	202.658	214.680	211.048	209.241
19.0	203.535	204.805	207.971	200.386	191.262	203.928	215.056	210.691	208.776
19.5	203.266	204.536	208.114	201.656	192.264	205.091	215.199	210.297	208.240
20.0	202.926	204.465	208.168	202.783	193.212	206.361	215.127	209.760	207.810
20.5	202.640	204.304	208.150	204.035	194.268	207.506	214.930	209.295	207.184
21.0	201.978	203.857	208.079	205.163	195.234	208.705	214.644	208.758	206.594
21.5	201.620	203.409	207.935	206.343	196.235	209.885	214.269	208.096	206.003
22.0	201.263	203.069	207.703	207.417	197.237	210.959	213.875	207.488	205.234
22.5	200.672	202.479	207.470	208.436	198.257	212.104	213.481	206.737	204.322
23.0	200.100	201.781	207.220	209.331	199.205	213.106	212.927	205.950	203.570
23.5	199.277	200.958	206.719	209.957	200.046	214.161	212.301	205.198	202.551
24.0	198.490	200.100	206.272	210.494	201.048	215.145	211.692	204.179	201.513
24.5	197.810	199.402	205.753	210.959	201.924	216.111	211.013	203.052	200.583
25.0	196.987	198.454	205.037	211.335	202.819	216.952	210.243	202.103	199.527
25.5	196.074	197.559	204.357	211.621	203.713	217.596	209.510	200.958	198.329
26.0	195.073	196.540	203.517	211.692	204.483	218.169	208.544	199.724	197.184
26.5	194.124	195.484	202.640	211.907	205.306	218.526	207.667	198.543	195.824

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27.0	192.818	194.321	201.656	211.835	206.057	218.687	206.683	197.166	194.536
27.5	191.924	193.337	200.636	211.692	206.791	218.723	205.520	195.896	193.212
28.0	190.600	192.139	199.438	211.352	207.470	218.580	204.357	194.482	191.781
28.5	189.330	190.743	198.221	210.977	208.240	218.151	203.087	193.033	190.242
29.0	188.113	189.419	197.023	210.297	208.991	217.596	201.710	191.477	188.704
29.5	186.772	188.167	195.663	209.599	209.671	216.845	200.314	189.920	187.129
30.0	185.430	186.789	194.214	208.741	210.225	215.897	198.812	188.328	185.394
30.5	183.748	185.358	192.729	207.685	210.941	214.877	197.130	186.611	183.587
31.0	182.424	184.034	191.173	206.755	211.496	213.732	195.502	184.857	181.888
31.5	180.993	182.514	189.670	205.646	212.122	212.480	193.784	183.140	179.973
32.0	179.294	180.922	188.167	204.357	212.730	211.030	192.031	181.333	178.184
32.5	177.755	179.419	186.396	203.105	213.088	209.438	190.189	179.401	176.073
33.0	176.091	177.737	184.750	201.620	213.535	207.703	188.400	177.433	174.123
33.5	174.177	176.199	183.086	200.046	213.875	206.003	186.539	175.411	171.798
34.0	172.621	174.428	181.244	198.561	213.768	203.964	184.535	173.461	169.830
34.5	170.957	172.710	179.526	196.718	213.499	202.014	182.585	171.386	167.665
35.0	168.989	170.903	177.666	194.876	212.605	199.974	180.456	169.275	165.357
35.5	167.236	169.239	175.877	192.979	211.388	197.863	178.453	167.146	163.085
36.0	165.375	167.289	173.944	190.994	209.814	195.627	176.360	164.838	160.921
36.5	163.407	165.465	172.138	188.847	207.953	193.498	174.231	162.727	158.541
37.0	161.672	163.640	170.205	186.646	205.610	191.101	172.048	160.509	156.269
37.5	159.811	161.726	168.166	184.410	202.676	188.757	169.830	158.148	153.854
38.0	157.843	159.758	166.305	182.174	199.438	186.396	167.647	155.822	151.475
38.5	155.947	157.808	164.266	179.777	196.074	183.909	165.268	153.371	149.167
39.0	154.033	155.947	162.316	177.397	192.604	181.530	163.014	151.045	146.823
39.5	152.208	153.943	160.294	174.928	189.133	179.025	160.670	148.594	144.354
40.0	150.634	152.029	158.219	172.477	185.645	176.556	158.362	146.197	142.047
40.5	148.809	150.079	156.144	170.062	182.335	174.016	155.911	143.782	139.649
41.0	146.966	148.201	154.122	167.522	179.025	171.529	153.532	141.367	137.342
41.5	145.589	146.358	151.958	165.160	175.823	168.989	151.063	138.916	135.123
42.0	144.086	144.515	149.847	162.674	172.853	166.449	148.630	136.519	132.887
42.5	142.834	142.691	147.682	160.169	169.794	163.855	146.090	134.157	130.740
43.0	141.760	140.991	145.571	157.700	166.914	161.314	143.549	131.849	128.504
43.5	140.830	139.524	143.388	155.106	164.212	158.649	141.063	129.631	126.643
44.0	140.061	138.039	141.277	152.566	161.511	155.965	138.415	127.287	124.836
44.5	138.916	136.894	139.148	150.169	158.899	153.335	135.857	125.230	123.137
45.0	137.968	135.785	136.966	147.467	156.287	150.544	133.263	123.244	121.759
45.5	137.073	134.730	134.962	144.981	153.854	147.897	130.812	121.437	120.400
46.0	136.089	133.853	132.869	142.440	151.278	145.070	128.271	119.756	119.112
46.5	135.052	132.851	130.830	139.900	148.863	142.243	125.749	118.289	117.752
47.0	133.996	131.796	128.933	137.216	146.269	139.435	123.137	116.929	116.374
47.5	133.066	130.865	126.965	134.640	143.639	136.536	120.758	115.569	114.997
48.0	132.118	129.917	125.284	132.064	141.009	133.656	118.378	114.281	113.566
48.5	131.080	128.826	123.638	129.345	138.290	130.686	115.999	112.922	112.367
49.0	130.239	127.860	122.224	126.804	135.517	127.860	113.816	111.616	111.079
49.5	129.273	126.858	120.775	124.121	132.672	124.908	111.705	110.274	109.737
50.0	128.325	125.910	119.505	121.527	129.774	122.099	109.845	109.040	108.539
50.5	127.377	124.890	118.199	119.040	126.733	119.183	108.091	107.698	107.286
51.0	126.518	123.978	117.090	116.607	123.691	116.249	106.499	106.481	105.962
51.5	125.731	122.940	116.088	113.888	120.632	113.405	105.086	105.175	104.835
52.0	124.693	122.099	115.194	111.508	117.394	110.578	103.744	104.048	103.673
52.5	123.978	121.169	114.192	109.111	114.085	107.787	102.599	102.814	102.492
53.0	123.083	120.203	113.244	106.642	110.954	105.032	101.311	101.544	101.329
53.5	122.332	119.326	112.260	104.513	107.716	102.420	100.112	100.613	100.148
54.0	121.563	118.539	111.347	102.313	104.549	99.826	98.967	99.325	99.093
54.5	120.543	117.609	110.381	100.309	101.544	97.447	97.805	98.234	98.127

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CANDELA TABULATION - (Cont.)

55.0	119.738	116.893	109.451	98.502	98.484	95.032	96.660	97.089	96.982
55.5	119.201	116.088	108.503	97.000	95.604	92.778	95.515	96.051	96.034
56.0	118.468	115.265	107.626	95.461	92.706	90.881	94.370	94.996	94.960
56.5	117.734	114.442	106.642	94.227	90.005	89.074	93.261	93.976	93.923
57.0	117.108	113.780	105.766	92.903	87.482	87.697	92.223	92.921	92.956
57.5	116.357	112.886	104.889	91.650	84.978	86.605	91.150	91.901	91.990
58.0	115.766	112.170	103.959	90.738	82.652	85.711	90.005	90.935	91.006
58.5	114.943	111.508	103.172	90.040	80.612	84.763	88.985	89.933	89.969
59.0	114.389	110.757	102.349	89.200	78.877	83.886	87.983	88.913	89.056
59.5	113.691	110.041	101.490	88.466	77.446	83.027	86.910	88.037	88.233
60.0	112.940	109.379	100.703	87.697	76.372	82.133	85.979	87.071	87.196
60.5	112.278	108.700	99.934	86.910	75.478	81.185	84.978	86.069	86.391
61.0	111.687	108.002	99.128	86.087	74.744	80.255	83.958	85.192	85.353
61.5	111.204	107.394	98.216	85.353	74.082	79.378	83.063	84.262	84.584
62.0	110.489	106.678	97.536	84.441	73.456	78.519	82.079	83.367	83.600
62.5	109.827	105.998	96.767	83.707	72.723	77.589	81.203	82.491	82.670
63.0	109.254	105.336	95.962	82.902	72.025	76.694	80.308	81.489	81.900
63.5	108.503	104.674	95.246	82.115	71.310	75.800	79.396	80.720	80.952
64.0	107.912	104.102	94.584	81.364	70.576	74.995	78.448	79.861	80.147
64.5	107.483	103.458	93.797	80.523	69.825	74.082	77.625	79.038	79.271
65.0	106.875	102.814	93.207	79.772	69.109	73.260	76.748	78.144	78.448
65.5	106.195	102.188	92.402	79.056	68.358	72.311	75.782	77.410	77.607
66.0	105.605	101.633	91.758	78.269	67.624	71.506	74.977	76.551	76.802
66.5	105.086	100.953	91.042	77.446	66.909	70.683	74.082	75.710	76.050
67.0	104.531	100.434	90.345	76.838	66.050	69.789	73.170	74.870	75.210
67.5	103.869	99.808	89.629	76.086	65.388	68.912	72.437	74.082	74.387
68.0	103.297	99.164	89.003	75.227	64.690	68.215	71.632	73.260	73.653
68.5	102.796	98.574	88.359	74.566	63.903	67.284	70.791	72.544	72.955
69.0	102.277	98.055	87.661	73.832	63.134	66.569	70.057	71.739	72.025
69.5	101.705	97.447	87.035	73.045	62.418	65.799	69.234	70.970	71.310
70.0	101.204	96.928	86.337	72.401	61.649	64.923	68.501	70.218	70.630
70.5	100.542	96.320	85.639	71.703	60.898	64.154	67.714	69.503	69.699
71.0	99.969	95.747	85.139	70.898	60.164	63.384	66.926	68.680	69.073
71.5	99.522	95.300	84.512	70.272	59.448	62.615	66.157	67.982	68.340
72.0	99.003	94.710	83.850	69.538	58.751	61.792	65.442	67.213	67.624
72.5	98.520	94.155	83.296	68.787	58.017	61.076	64.690	66.533	66.873
73.0	97.930	93.618	82.688	68.197	57.302	60.307	63.993	65.764	66.175
73.5	97.375	93.117	82.061	67.463	56.586	59.538	63.223	65.102	65.442
74.0	97.000	92.527	81.489	66.748	55.906	58.804	62.543	64.386	64.780
74.5	96.588	91.972	80.845	66.157	55.137	58.053	61.828	63.688	64.046
75.0	95.998	91.525	80.290	65.531	54.511	57.391	61.166	63.044	63.313
75.5	95.407	90.971	79.789	64.815	53.831	56.711	60.450	62.275	62.651
76.0	94.924	90.470	79.235	64.207	53.098	55.942	59.735	61.613	61.935
76.5	94.352	89.969	78.609	63.599	52.400	55.316	59.055	60.933	61.309
77.0	93.779	89.432	78.161	62.955	51.792	54.636	58.339	60.307	60.665
77.5	93.493	89.003	77.571	62.293	51.076	53.885	57.695	59.592	60.075
78.0	92.956	88.466	76.945	61.721	50.486	53.276	57.051	58.930	59.359
78.5	92.348	87.929	76.498	61.005	49.788	52.614	56.407	58.286	58.733
79.0	92.026	87.428	75.961	60.486	49.144	51.899	55.727	57.659	57.964
79.5	91.400	86.945	75.353	59.949	48.500	51.237	55.083	56.980	57.373
80.0	91.114	86.444	74.905	59.252	47.892	50.593	54.439	56.354	56.747
80.5	90.595	86.015	74.333	58.715	47.319	49.967	53.759	55.781	56.192
81.0	90.076	85.550	73.814	58.143	46.693	49.323	53.223	55.119	55.459
81.5	89.736	84.995	73.349	57.570	46.174	48.786	52.614	54.529	54.869
82.0	89.146	84.530	72.794	57.069	45.584	48.142	51.935	53.992	54.314
82.5	88.752	84.155	72.240	56.550	44.975	47.480	51.362	53.384	53.724

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CANDELA TABULATION - (Cont.)

83.0	88.162	83.600	71.810	55.960	44.385	46.943	50.790	52.776	53.098
83.5	87.733	83.206	71.327	55.423	43.848	46.389	50.181	52.149	52.471
84.0	87.357	82.777	70.791	54.976	43.294	45.781	49.645	51.631	51.881
84.5	86.892	82.258	70.397	54.403	42.775	45.208	49.036	50.987	51.273
85.0	86.516	81.793	69.932	53.938	42.292	44.636	48.518	50.468	50.843
85.5	86.105	81.364	69.413	53.455	41.719	44.027	48.017	49.895	50.217
86.0	85.675	80.916	68.966	52.937	41.254	43.544	47.373	49.215	49.770
86.5	85.228	80.559	68.608	52.489	40.736	42.990	46.836	48.714	49.036
87.0	84.745	80.111	68.089	52.149	40.270	42.471	46.353	48.249	48.536
87.5	84.351	79.646	67.714	51.613	39.913	41.988	45.816	47.659	48.070
88.0	83.976	79.378	67.338	51.273	39.376	41.505	45.351	47.176	47.480
88.5	83.564	78.966	66.926	50.897	39.054	41.022	44.850	46.693	46.961
89.0	83.493	78.734	66.622	50.486	38.678	40.682	44.367	46.138	46.371
89.5	83.528	78.716	66.622	50.450	38.410	40.324	43.920	45.691	45.924
90.0	83.367	78.823	66.748	50.521	38.553	40.235	43.741	45.423	45.620
90.5	83.636	78.931	66.765	50.575	38.553	40.270	43.634	45.280	45.530
91.0	83.868	79.002	66.873	50.682	38.517	40.270	43.544	45.208	45.441
91.5	83.940	79.217	66.962	50.790	38.642	40.288	43.526	45.172	45.280
92.0	84.083	79.199	67.141	50.754	38.660	40.288	43.437	45.029	45.226
92.5	84.190	79.342	67.213	50.897	38.768	40.235	43.365	44.886	45.101
93.0	84.333	79.467	67.213	51.022	38.732	40.127	43.365	44.832	45.029
93.5	84.548	79.557	67.463	51.076	38.911	40.145	43.365	44.761	44.904
94.0	84.638	79.736	67.535	51.219	38.875	40.109	43.204	44.689	44.761
94.5	84.763	79.789	67.642	51.255	38.964	40.020	43.258	44.564	44.546
95.0	85.031	79.915	67.714	51.344	38.964	40.020	43.133	44.314	44.421
95.5	84.995	80.111	67.803	51.452	39.018	40.002	43.043	44.242	44.367
96.0	85.210	80.201	67.928	51.523	39.054	39.966	42.954	44.153	44.135
96.5	85.317	80.290	68.143	51.577	39.161	39.913	42.847	43.956	44.027
97.0	85.443	80.416	68.107	51.702	39.143	39.877	42.793	43.831	43.795
97.5	85.532	80.523	68.215	51.845	39.161	39.787	42.739	43.795	43.705
98.0	85.729	80.541	68.340	51.827	39.304	39.823	42.578	43.616	43.562
98.5	85.747	80.702	68.429	51.988	39.322	39.716	42.525	43.491	43.383
99.0	85.854	80.809	68.429	52.131	39.376	39.608	42.489	43.347	43.240
99.5	85.979	80.845	68.554	52.078	39.412	39.608	42.292	43.204	42.990
100.0	86.015	80.934	68.608	52.185	39.501	39.537	42.256	43.079	42.882
100.5	86.158	80.952	68.626	52.275	39.519	39.483	42.203	42.900	42.703
101.0	86.140	81.006	68.698	52.382	39.608	39.412	42.095	42.703	42.525
101.5	86.337	81.042	68.769	52.418	39.644	39.286	41.970	42.596	42.274
102.0	86.266	81.095	68.751	52.507	39.787	39.251	41.845	42.399	42.203
102.5	86.319	81.095	68.769	52.525	39.787	39.197	41.684	42.220	42.024
103.0	86.337	81.149	68.805	52.597	39.895	39.054	41.541	42.077	41.863
103.5	86.337	81.167	68.769	52.704	39.859	39.000	41.433	41.970	41.541
104.0	86.480	81.185	68.698	52.597	39.895	38.911	41.272	41.791	41.469
104.5	86.516	81.256	68.715	52.704	39.930	38.803	41.058	41.576	41.183
105.0	86.355	81.274	68.680	52.758	40.038	38.696	40.861	41.451	40.986
105.5	86.444	81.167	68.662	52.650	40.074	38.607	40.664	41.219	40.753
106.0	86.516	81.185	68.715	52.686	40.020	38.535	40.467	40.968	40.610
106.5	86.480	81.221	68.680	52.686	40.074	38.446	40.288	40.789	40.378
107.0	86.534	81.221	68.626	52.668	40.020	38.374	40.074	40.521	40.199
107.5	86.480	81.167	68.608	52.650	40.020	38.267	39.895	40.306	39.895
108.0	86.480	81.149	68.572	52.740	40.074	38.052	39.698	39.948	39.591
108.5	86.516	81.131	68.608	52.650	40.002	38.016	39.519	39.734	39.269
109.0	86.355	81.113	68.519	52.650	40.038	37.819	39.322	39.430	39.072
109.5	86.409	80.988	68.429	52.579	39.948	37.766	39.125	39.197	38.625
110.0	86.319	81.006	68.376	52.579	40.002	37.676	38.929	38.839	38.481
110.5	86.337	80.863	68.376	52.561	39.930	37.569	38.678	38.660	38.034

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CANDELA TABULATION - (Cont.)

111.0	86.230	80.881	68.304	52.614	39.948	37.462	38.517	38.356	37.712
111.5	86.176	80.827	68.304	52.543	39.859	37.372	38.231	38.106	37.551
112.0	85.961	80.791	68.232	52.525	39.841	37.193	38.052	37.784	37.158
112.5	86.015	80.720	68.089	52.471	39.877	37.140	37.891	37.533	36.800
113.0	85.979	80.612	68.089	52.418	39.859	36.979	37.694	37.265	36.478
113.5	85.872	80.523	68.000	52.346	39.805	36.907	37.408	36.889	36.227
114.0	85.729	80.469	67.875	52.346	39.787	36.818	37.229	36.692	35.941
114.5	85.765	80.362	67.821	52.257	39.769	36.639	37.050	36.281	35.583
115.0	85.550	80.237	67.660	52.185	39.680	36.531	36.675	35.887	35.172
115.5	85.478	80.255	67.588	52.131	39.698	36.388	36.585	35.530	34.850
116.0	85.300	80.004	67.445	52.006	39.555	36.370	36.281	35.047	34.474
116.5	85.317	79.933	67.356	51.988	39.608	36.156	35.977	34.671	34.098
117.0	85.085	79.807	67.213	51.899	39.519	36.084	35.852	34.331	33.454
117.5	84.888	79.628	67.159	51.809	39.430	35.959	35.655	33.848	33.114
118.0	84.781	79.503	66.944	51.666	39.358	35.798	35.369	33.490	32.542
118.5	84.620	79.432	66.837	51.595	39.251	35.673	35.118	33.097	32.130
119.0	84.405	79.199	66.712	51.559	39.197	35.565	34.975	32.685	31.630
119.5	84.226	79.092	66.587	51.470	39.197	35.458	34.653	32.220	31.093
120.0	84.065	78.984	66.479	51.326	39.072	35.333	34.510	31.737	30.610
120.5	83.940	78.698	66.336	51.148	38.982	35.154	34.241	31.308	30.145
121.0	83.761	78.573	66.121	51.148	38.839	35.029	33.955	30.914	29.662
121.5	83.439	78.448	65.943	51.058	38.839	34.850	33.830	30.520	29.161
122.0	83.296	78.179	65.817	50.843	38.786	34.707	33.580	30.073	28.642
122.5	83.045	78.000	65.692	50.718	38.642	34.653	33.347	29.697	28.213
123.0	82.849	77.839	65.460	50.664	38.553	34.438	33.150	29.286	27.730
123.5	82.580	77.499	65.263	50.432	38.481	34.331	32.953	28.928	27.139
124.0	82.544	77.249	65.137	50.360	38.446	34.224	32.631	28.499	26.746
124.5	82.097	77.070	64.941	50.235	38.302	34.045	32.470	28.141	26.316
125.0	81.793	76.784	64.762	50.092	38.177	34.009	32.309	27.747	25.869
125.5	81.489	76.551	64.493	49.895	38.088	33.848	32.113	27.407	25.529
126.0	81.131	76.229	64.297	49.788	38.052	33.776	31.987	27.103	25.153
126.5	80.988	75.925	64.064	49.609	37.963	33.687	31.755	26.746	24.778
127.0	80.451	75.693	63.867	49.520	37.909	33.597	31.486	26.459	24.402
127.5	80.094	75.335	63.599	49.359	37.837	33.454	31.343	26.209	24.116
128.0	79.843	75.013	63.366	49.162	37.712	33.419	31.182	25.815	23.794
128.5	79.449	74.655	63.116	49.054	37.712	33.383	30.950	25.493	23.490
129.0	79.056	74.458	62.901	48.858	37.551	33.222	30.771	25.135	23.185
129.5	78.788	74.065	62.597	48.732	37.480	33.114	30.646	24.831	22.989
130.0	78.269	73.814	62.347	48.482	37.408	32.918	30.324	24.545	22.702
130.5	77.965	73.456	62.060	48.357	37.408	32.864	30.198	24.277	22.327
131.0	77.607	73.099	61.792	48.249	37.229	32.757	30.019	24.026	22.166
131.5	77.303	72.794	61.559	48.017	37.158	32.685	29.805	23.686	22.005
132.0	76.784	72.437	61.220	47.963	37.104	32.613	29.626	23.436	21.701
132.5	76.319	71.971	60.969	47.695	36.997	32.506	29.501	23.168	21.432
133.0	75.997	71.632	60.683	47.480	36.836	32.399	29.286	22.935	21.379
133.5	75.514	71.274	60.379	47.337	36.818	32.309	29.125	22.756	21.110
134.0	75.120	70.844	60.093	47.122	36.657	32.274	28.928	22.506	21.021
134.5	74.744	70.451	59.788	46.890	36.639	32.166	28.803	22.237	20.788
135.0	74.297	70.075	59.413	46.675	36.496	32.023	28.624	22.076	20.609
135.5	73.868	69.592	59.180	46.496	36.388	32.041	28.445	21.879	20.430
136.0	73.385	69.342	58.822	46.281	36.263	31.844	28.230	21.557	20.198
136.5	72.938	68.930	58.518	46.138	36.174	31.755	28.034	21.414	19.965
137.0	72.437	68.447	58.196	45.870	36.084	31.647	27.962	21.200	19.715
137.5	71.936	68.036	57.874	45.673	35.905	31.558	27.694	20.949	19.625
138.0	71.399	67.606	57.534	45.494	35.869	31.397	27.604	20.842	19.572
138.5	70.988	67.141	57.248	45.262	35.762	31.397	27.533	20.663	19.339

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CANDELA TABULATION - (Cont.)

139.0	70.451	66.765	56.872	44.993	35.565	31.343	27.282	20.412	19.196
139.5	69.986	66.282	56.515	44.779	35.476	31.218	27.157	20.269	19.017
140.0	69.628	65.853	56.031	44.600	35.422	31.182	27.032	20.073	18.838
140.5	69.127	65.334	55.781	44.260	35.208	31.021	26.799	19.929	18.677
141.0	68.626	64.994	55.387	44.135	35.136	30.896	26.728	19.679	18.462
141.5	68.197	64.422	55.065	43.848	34.993	30.878	26.549	19.500	18.284
142.0	67.678	63.993	54.654	43.562	34.814	30.771	26.406	19.285	18.069
142.5	67.052	63.545	54.314	43.347	34.707	30.646	26.316	19.196	17.854
143.0	66.551	63.026	53.920	43.061	34.581	30.610	26.191	18.910	17.801
143.5	66.014	62.508	53.491	42.775	34.438	30.449	25.976	18.749	17.640
144.0	65.513	62.025	53.115	42.560	34.241	30.324	25.941	18.606	17.532
144.5	64.976	61.524	52.740	42.328	34.116	30.359	25.905	18.498	17.407
145.0	64.404	61.094	52.400	41.970	33.955	30.216	25.708	18.266	17.318
145.5	63.885	60.593	52.006	41.773	33.848	30.091	25.583	18.176	17.300
146.0	63.295	60.057	51.577	41.505	33.669	29.948	25.529	18.051	17.407
146.5	62.776	59.502	51.130	41.219	33.472	29.894	25.368	17.783	17.389
147.0	62.257	59.019	50.790	40.932	33.293	29.787	25.386	17.657	17.335
147.5	61.721	58.411	50.378	40.646	33.240	29.697	25.225	17.550	17.389
148.0	61.076	57.910	49.931	40.378	33.007	29.572	25.118	17.407	17.425
148.5	60.468	57.427	49.555	40.074	32.918	29.465	25.028	17.246	17.461
149.0	59.824	56.944	49.108	39.823	32.703	29.393	24.992	17.085	17.550
149.5	59.377	56.389	48.679	39.465	32.506	29.340	24.885	17.013	17.640
150.0	58.769	55.781	48.249	39.215	32.291	29.161	24.796	16.888	17.622
150.5	58.178	55.316	47.802	38.929	32.184	29.125	24.742	16.817	17.729
151.0	57.606	54.672	47.409	38.571	31.987	28.982	24.635	16.799	17.854
151.5	57.087	54.153	46.997	38.320	31.808	28.910	24.545	16.656	17.783
152.0	56.336	53.670	46.514	38.070	31.647	28.767	24.474	16.495	17.747
152.5	55.727	53.044	46.120	37.694	31.433	28.696	24.330	16.477	17.818
153.0	55.262	52.453	45.584	37.319	31.290	28.606	24.348	16.405	17.801
153.5	54.547	51.935	45.208	37.032	31.075	28.463	24.313	16.387	17.872
154.0	53.938	51.362	44.725	36.746	30.896	28.338	24.169	16.351	17.818
154.5	53.276	50.754	44.224	36.388	30.735	28.213	24.169	16.351	17.783
155.0	52.614	50.128	43.795	36.048	30.574	28.069	24.062	16.334	17.783
155.5	52.024	49.520	43.347	35.691	30.359	27.962	23.919	16.369	17.890
156.0	51.452	48.983	42.864	35.440	30.145	27.891	23.919	16.387	17.890
156.5	50.664	48.392	42.346	35.047	30.019	27.730	23.919	16.316	17.997
157.0	50.181	47.838	41.934	34.671	29.733	27.622	23.812	16.173	17.962
157.5	49.484	47.230	41.415	34.331	29.501	27.443	23.776	16.101	17.872
158.0	48.858	46.568	41.004	34.045	29.340	27.354	23.758	15.976	17.872
158.5	48.303	46.049	40.575	33.651	29.071	27.211	23.668	15.743	17.854
159.0	47.605	45.476	40.020	33.293	28.857	27.014	23.633	15.654	17.872
159.5	46.961	44.832	39.555	32.989	28.642	26.960	23.597	15.439	17.890
160.0	46.299	44.188	39.054	32.542	28.409	26.763	23.472	15.421	17.872
160.5	45.709	43.598	38.589	32.202	28.213	26.692	23.364	15.332	17.854
161.0	45.011	42.954	38.052	31.880	28.016	26.513	23.257	15.296	17.997
161.5	44.260	42.346	37.605	31.415	27.747	26.370	23.096	15.081	18.069
162.0	43.562	41.737	36.997	31.021	27.533	26.191	22.935	14.938	18.158
162.5	42.900	41.111	36.531	30.717	27.407	26.066	22.685	14.777	18.158
163.0	42.238	40.449	36.030	30.306	27.068	25.887	22.130	14.670	18.194
163.5	41.523	39.859	35.476	29.948	26.924	25.708	21.540	14.401	18.301
164.0	40.932	39.197	34.993	29.608	26.710	25.654	20.806	13.954	18.248
164.5	40.199	38.517	34.474	29.125	26.441	25.440	19.894	13.561	17.908
165.0	39.501	37.837	33.955	28.749	26.191	25.100	19.053	13.364	17.371
165.5	38.750	37.229	33.419	28.320	25.958	24.706	18.158	13.274	16.656
166.0	38.106	36.567	32.864	27.980	25.654	24.080	17.085	13.203	15.833
166.5	37.336	35.869	32.238	27.604	25.314	23.221	16.190	13.024	14.670

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CANDELA TABULATION - (Cont.)

167.0	36.549	35.208	31.737	27.246	24.778	22.309	15.475	12.934	13.292
167.5	35.852	34.546	31.218	26.799	24.008	21.218	14.759	12.559	12.094
168.0	35.047	33.758	30.502	26.459	22.935	20.037	14.312	12.308	10.662
168.5	34.313	33.061	29.966	26.030	21.987	18.928	14.026	12.004	9.339
169.0	33.562	32.417	29.465	25.386	20.699	17.747	13.704	11.414	7.764
169.5	32.774	31.737	28.803	24.599	19.554	16.602	13.579	10.770	6.083
170.0	31.952	31.003	28.141	23.543	18.266	15.725	13.328	9.840	4.526
170.5	31.164	30.073	27.443	22.452	17.174	15.153	12.970	8.695	3.274
171.0	30.359	29.214	26.424	21.307	16.262	14.580	12.684	7.693	2.004
171.5	29.626	28.481	25.547	20.108	15.636	14.258	12.183	6.834	1.324
172.0	28.767	27.658	24.688	18.963	15.081	14.026	11.324	5.814	1.181
172.5	28.034	26.531	23.490	18.123	14.598	13.614	10.323	4.812	1.163
173.0	26.746	25.511	22.345	17.335	14.187	13.149	9.303	3.846	1.109
173.5	25.207	24.348	21.057	16.405	13.668	12.201	7.961	3.256	0.948
174.0	24.384	22.846	19.572	15.654	13.239	10.823	6.584	3.006	0.823
174.5	23.042	21.396	18.230	14.795	12.434	9.446	5.260	2.701	0.698
175.0	21.432	19.840	16.942	13.722	11.271	7.872	4.204	2.469	0.537
175.5	19.339	18.033	15.421	12.630	9.840	6.154	3.596	2.039	0.394
176.0	17.246	16.029	13.918	11.324	8.319	4.669	3.184	1.700	0.519
176.5	14.992	13.775	12.147	9.482	6.548	3.596	2.719	1.199	0.411
177.0	12.362	11.485	10.162	7.603	4.956	3.023	2.290	0.787	0.340
177.5	9.643	8.909	8.283	5.922	3.650	2.666	1.932	0.519	0.340
178.0	6.745	6.244	6.315	4.025	2.684	2.218	1.521	0.429	0.572
178.5	4.294	3.989	4.168	2.558	2.165	1.825	1.145	0.465	0.394
179.0	2.522	2.397	2.236	1.592	1.682	1.449	0.895	0.429	0.447
179.5	0.895	1.360	0.859	0.859	1.163	1.163	0.555	0.447	0.626
180.0	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	72.92	N.A.	7.40
0-30	167.46	N.A.	16.90
0-40	281.79	N.A.	28.50
0-60	482.18	N.A.	48.70
0-80	637.93	N.A.	64.40
0-90	700.86	N.A.	70.80
10-90	684.34	N.A.	69.10
20-40	208.86	N.A.	21.10
20-50	316.62	N.A.	32.00
40-70	282.97	N.A.	28.60
60-80	155.75	N.A.	15.70
70-80	73.17	N.A.	7.40
80-90	62.94	N.A.	6.40
90-110	115.06	N.A.	11.60
90-120	165.79	N.A.	16.70
90-130	208.18	N.A.	21.00
90-150	265.39	N.A.	26.80
90-180	289.60	N.A.	29.20
110-180	174.53	N.A.	17.60
0-180	990.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	16.52
10-20	56.40
20-30	94.54
30-40	114.32
40-50	107.76
50-60	92.63
60-70	82.58
70-80	73.17
80-90	62.94
90-100	58.64
100-110	56.42
110-120	50.72
120-130	42.40
130-140	33.23
140-150	23.98
150-160	15.35
160-170	7.54
170-180	1.31

IES INDOOR REPORT
PHOTOMETRIC FILENAME : POR 4 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	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	61	59	54
2	90	81	74	68	85	77	71	65	69	64	59	61	57	53	54	51	48	44
3	82	71	63	56	77	67	60	54	60	54	49	54	49	44	47	44	40	37
4	75	63	54	47	70	60	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	40	34	43	36	31	39	33	29	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	32	26	36	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	19	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 4 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

X=2H	Y=2H	10.2	11.4	11.0	12.2	13.1	8.5	9.6	9.2	10.4	11.3
	3H	12.5	13.6	13.3	14.4	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	11.9	12.9	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

UGR Viewed Endwise

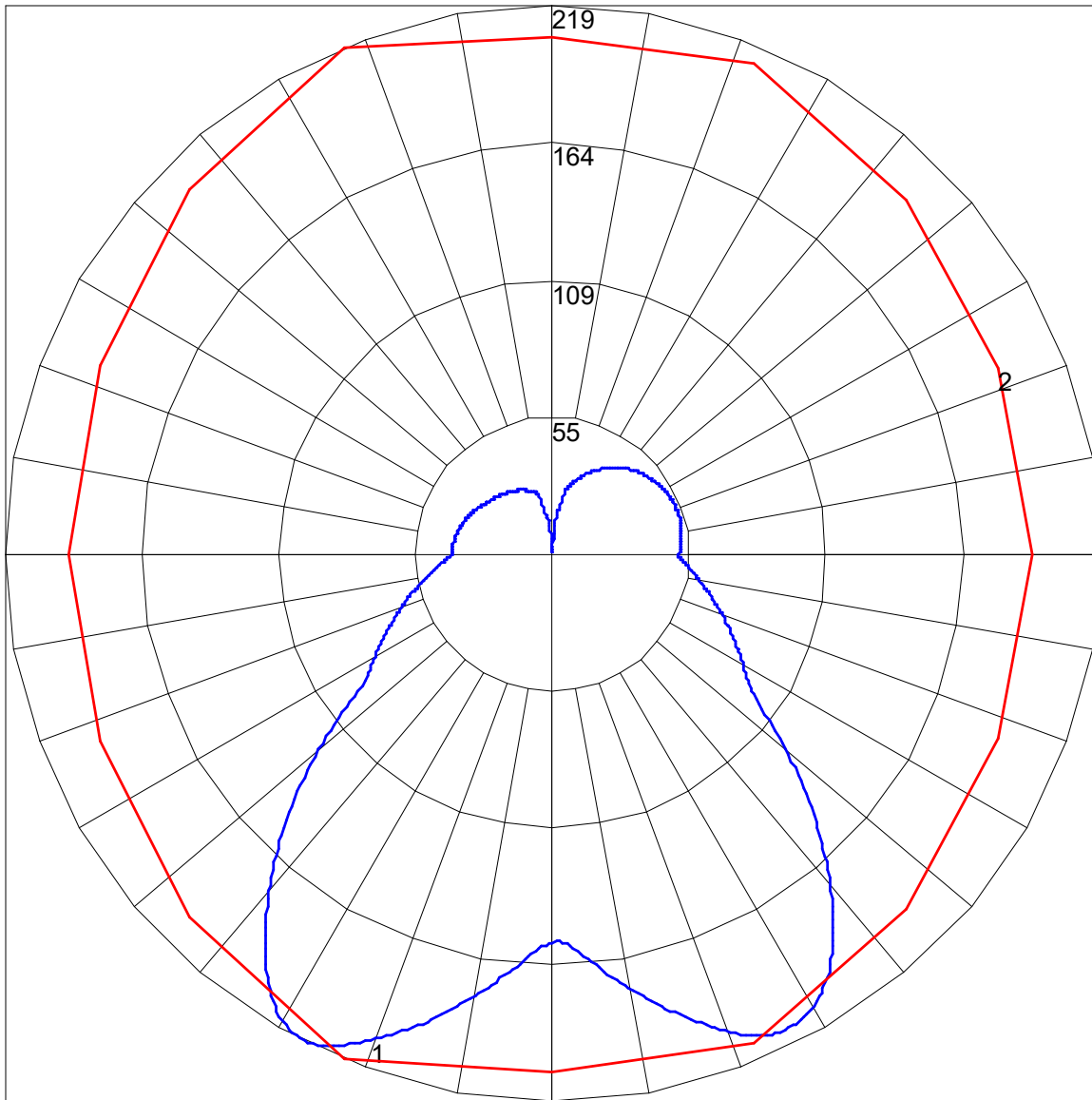
4H	2H	10.9	11.9	11.7	12.7	13.7	9.4	10.4	10.2	11.2	12.2
	3H	13.4	14.3	14.2	15.1	16.1	11.5	12.3	12.3	13.2	14.2
	4H	14.7	15.5	15.5	16.3	17.3	12.4	13.2	13.2	14.0	15.0
	6H	16.0	16.7	16.8	17.5	18.5	13.3	14.0	14.1	14.8	15.9
	8H	16.6	17.2	17.4	18.1	19.1	13.7	14.3	14.5	15.2	16.2
	12H	17.2	17.8	18.0	18.6	19.7	14.1	14.7	14.9	15.5	16.6

8H	4H	15.1	15.8	16.0	16.6	17.7	13.1	13.8	14.0	14.6	15.7
	6H	16.6	17.2	17.5	18.1	19.1	14.2	14.8	15.1	15.7	16.7
	8H	17.4	17.9	18.2	18.8	19.8	14.7	15.2	15.6	16.1	17.2
	12H	18.2	18.6	19.0	19.5	20.6	15.2	15.7	16.1	16.6	17.7

12H	4H	15.2	15.8	16.1	16.7	17.7	13.3	13.9	14.2	14.8	15.8
	6H	16.8	17.3	17.6	18.1	19.2	14.5	15.0	15.4	15.9	17.0
	8H	17.6	18.1	18.5	18.9	20.0	15.1	15.6	16.0	16.4	17.5

Maximum UGR = 20.6

POLAR GRAPH



Maximum Candela = 218.723 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.)