



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VWHBS-LED140DMV40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 1216836
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 3/3/2016
 [MANUFAC] Scientific Lighting Products, Div Of Koller Enterprises
 [LUMCAT] VWHBS-LED140DMV40 (Clear DIRA Lens)
 [LUMINAIRE] White plastic housing, clear lens enclosure
 [LAMP] 3 Fortimo LED Line 2ft 6000lm 850 2R LV2 Boards
 [BALLAST] Three Philips Xitanium XI054C150V054DNT1
 [OTHER] 25.1 C, 120.02 V, 1.17 A, 140 W, 0.99 PF, 60 Hz
 [OTHER] Data extrapolated from Test 1216836

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14000
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	140
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.17 ft
Luminous Width (90-270)	1.17 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19501	19651	19705
55	18478	19008	18857
65	16582	13944	17656
75	13001	14491	14092
85	11075	12476	12139

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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>
0.0	4797.560	4797.560	4797.560	4797.560	4797.560
0.5	4765.781	4817.990	4797.560	4796.425	4788.480
1.0	4764.646	4816.855	4797.560	4797.560	4789.615
1.5	4764.646	4816.855	4797.560	4795.290	4786.211
2.0	4765.781	4815.720	4795.290	4794.155	4786.211
2.5	4764.646	4816.855	4795.290	4790.750	4782.806
3.0	4763.511	4815.720	4794.155	4790.750	4783.941
3.5	4763.511	4813.450	4790.750	4790.750	4781.671
4.0	4763.511	4810.045	4788.480	4789.615	4782.806
4.5	4760.106	4808.910	4788.480	4788.480	4781.671
5.0	4756.701	4806.640	4787.345	4787.345	4780.536
5.5	4753.296	4802.100	4785.076	4786.211	4778.266
6.0	4748.756	4797.560	4782.806	4781.671	4774.861
6.5	4744.216	4793.020	4778.266	4779.401	4769.186
7.0	4737.406	4787.345	4774.861	4773.726	4762.376
7.5	4732.866	4782.806	4771.456	4768.051	4756.701
8.0	4726.057	4778.266	4765.781	4761.241	4749.891
8.5	4716.977	4772.591	4760.106	4753.296	4743.081
9.0	4710.167	4766.916	4753.296	4746.486	4736.271
9.5	4703.357	4760.106	4745.351	4737.406	4728.327
10.0	4696.547	4753.296	4737.406	4729.462	4718.112
10.5	4687.467	4745.351	4730.596	4720.382	4709.032
11.0	4679.522	4737.406	4719.247	4711.302	4701.087
11.5	4672.713	4730.596	4711.302	4702.222	4695.412
12.0	4665.903	4722.652	4699.952	4692.007	4686.332
12.5	4657.958	4714.707	4687.467	4681.792	4679.522
13.0	4647.743	4706.762	4678.387	4672.713	4669.308
13.5	4639.798	4695.412	4667.038	4663.633	4657.958
14.0	4629.583	4684.062	4655.688	4653.418	4647.743
14.5	4619.368	4673.847	4642.068	4642.068	4637.528
15.0	4609.154	4661.363	4630.718	4630.718	4625.043
15.5	4598.939	4651.148	4618.233	4618.233	4613.694
16.0	4587.589	4639.798	4608.019	4605.749	4603.479
16.5	4575.104	4627.313	4596.669	4590.994	4586.454
17.0	4561.484	4612.559	4584.184	4578.509	4573.969
17.5	4546.730	4598.939	4571.699	4564.889	4559.215
18.0	4531.975	4585.319	4556.945	4553.540	4547.865
18.5	4519.490	4570.564	4543.325	4538.785	4534.245
19.0	4504.735	4555.810	4528.570	4524.030	4514.950
19.5	4488.846	4539.920	4514.950	4507.005	4499.061
20.0	4472.956	4524.030	4500.196	4493.386	4485.441
20.5	4457.066	4507.005	4483.171	4477.496	4468.416
21.0	4442.312	4489.981	4465.011	4461.606	4452.526
21.5	4427.557	4472.956	4449.121	4443.447	4434.367
22.0	4412.802	4454.796	4432.097	4426.422	4419.612
22.5	4399.182	4440.042	4416.207	4410.532	4402.587
23.0	4383.293	4421.882	4400.317	4395.777	4386.698
23.5	4360.593	4404.857	4382.158	4379.888	4368.538
24.0	4339.028	4388.968	4362.863	4361.728	4349.243
24.5	4322.004	4368.538	4343.568	4343.568	4328.814
25.0	4301.574	4349.243	4326.544	4324.274	4310.654
25.5	4276.605	4328.814	4307.249	4302.709	4291.359
26.0	4251.635	4304.979	4289.089	4282.279	4269.795
26.5	4235.745	4281.144	4267.525	4261.850	4249.365

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CANDELA TABULATION - (Cont.)

27.0	4222.125	4257.310	4249.365	4240.285	4226.665
27.5	4199.426	4234.610	4227.800	4217.586	4199.426
28.0	4173.321	4211.911	4207.371	4196.021	4171.051
28.5	4154.027	4186.941	4188.076	4176.726	4144.947
29.0	4137.002	4164.241	4169.916	4152.892	4121.112
29.5	4109.762	4147.217	4150.622	4122.247	4100.683
30.0	4079.118	4130.192	4130.192	4089.333	4085.928
30.5	4055.283	4108.627	4106.358	4063.228	4067.768
31.0	4035.989	4085.928	4081.388	4039.394	4048.474
31.5	4011.019	4068.903	4056.418	4017.829	4024.639
32.0	3983.780	4049.609	4032.584	3998.534	3999.669
32.5	3962.215	4024.639	4005.344	3981.510	3978.105
33.0	3940.650	3998.534	3974.700	3963.350	3956.540
33.5	3914.546	3974.700	3945.190	3944.055	3933.841
34.0	3890.711	3946.325	3916.816	3919.086	3907.736
34.5	3872.552	3912.276	3885.036	3894.116	3882.766
35.0	3858.932	3879.362	3855.527	3868.012	3856.662
35.5	3838.502	3850.987	3823.747	3839.637	3831.692
36.0	3814.668	3824.882	3793.103	3812.398	3804.453
36.5	3789.698	3796.508	3763.594	3786.293	3782.888
37.0	3763.594	3765.864	3736.354	3755.649	3760.189
37.5	3732.949	3738.624	3706.845	3727.274	3731.814
38.0	3696.630	3717.059	3681.875	3694.360	3700.035
38.5	3655.770	3692.090	3661.445	3662.580	3667.120
39.0	3619.451	3667.120	3643.286	3634.206	3636.476
39.5	3588.807	3646.691	3617.181	3604.696	3612.641
40.0	3557.027	3620.586	3588.807	3574.052	3588.807
40.5	3527.518	3594.482	3564.972	3541.137	3560.432
41.0	3504.818	3566.107	3535.463	3509.358	3532.058
41.5	3490.063	3529.788	3502.548	3482.119	3494.603
42.0	3470.769	3494.603	3466.229	3457.149	3461.689
42.5	3442.394	3454.879	3432.179	3434.449	3427.639
43.0	3414.020	3415.155	3396.995	3411.750	3395.860
43.5	3378.835	3377.700	3362.946	3376.565	3366.351
44.0	3340.246	3337.976	3333.436	3340.246	3336.841
44.5	3291.442	3300.522	3299.387	3305.062	3305.062
45.0	3242.638	3272.147	3267.607	3271.012	3276.687
45.5	3202.913	3249.448	3238.098	3236.963	3247.178
46.0	3164.324	3225.613	3207.453	3207.453	3219.938
46.5	3129.140	3201.778	3172.269	3179.079	3192.699
47.0	3112.115	3171.134	3140.490	3147.299	3154.109
47.5	3099.630	3139.355	3097.360	3113.250	3117.790
48.0	3072.391	3100.765	3057.636	3081.471	3076.931
48.5	3050.826	3059.906	3016.777	3049.691	3040.611
49.0	3014.507	3024.722	2981.592	3009.967	3003.157
49.5	2965.703	2981.592	2944.138	2969.108	2967.973
50.0	2906.684	2935.058	2911.224	2932.788	2983.862
50.5	2853.340	2897.604	2886.254	2888.524	2979.322
51.0	2804.535	2862.419	2859.015	2847.665	2966.838
51.5	2771.621	2820.425	2819.290	2826.100	2931.653
52.0	2752.326	2779.566	2784.106	2828.370	2886.254
52.5	2734.167	2742.112	2754.596	2814.750	2847.665
53.0	2713.737	2703.522	2719.412	2798.861	2794.321
53.5	2674.013	2662.663	2681.958	2762.541	2744.382
54.0	2614.994	2619.534	2639.963	2717.142	2731.897
54.5	2552.570	2582.079	2600.239	2680.823	2775.026

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55.0	2492.416	2541.220	2563.920	2634.288	2543.490
55.5	2452.692	2493.551	2520.790	2577.539	2159.867
56.0	2431.127	2451.557	2483.336	2550.300	1961.245
56.5	2409.562	2407.293	2444.747	2560.515	1914.711
57.0	2381.188	2361.893	2406.158	2461.772	1896.552
57.5	2322.169	2332.384	2374.378	2150.787	2029.344
58.0	2262.015	2298.334	2347.139	1884.067	2427.722
58.5	2200.726	2263.150	2309.684	1788.728	2651.313
59.0	2164.407	2216.616	2266.555	1767.164	2562.785
59.5	2143.977	2166.677	2234.776	1870.447	2402.753
60.0	2119.008	2119.008	2191.646	2201.861	2273.365
60.5	2067.933	2083.823	2147.382	2416.372	2199.591
61.0	2007.780	2054.314	2114.468	2349.409	2138.302
61.5	1952.166	2010.050	2081.553	2207.536	2071.338
62.0	1912.441	1955.570	2022.534	2087.228	2015.724
62.5	1886.337	1898.821	1969.190	2020.264	1971.460
63.0	1838.668	1850.017	1932.871	1963.515	1929.466
63.5	1780.784	1810.293	1885.202	1887.472	1887.472
64.0	1728.574	1773.974	1729.709	1827.318	1847.747
64.5	1694.525	1725.170	1506.118	1787.593	1796.673
65.0	1647.991	1686.580	1385.811	1742.194	1754.679
65.5	1596.917	1644.586	1376.731	1695.660	1710.415
66.0	1552.653	1599.187	1553.788	1647.991	1662.746
66.5	1511.793	1545.843	1701.335	1608.267	1615.076
67.0	1467.529	1495.904	1736.519	1570.812	1573.082
67.5	1416.455	1453.909	1637.776	1525.413	1528.818
68.0	1376.731	1417.590	1541.303	1478.879	1491.364
68.5	1329.062	1374.461	1486.824	1435.750	1456.179
69.0	1282.527	1341.546	1447.099	1396.025	1415.320
69.5	1249.613	1302.957	1385.811	1358.571	1352.896
70.0	1197.404	1259.828	1315.442	1319.982	1296.147
70.5	1157.680	1216.699	1259.828	1277.987	1313.172
71.0	1118.409	1175.839	1211.024	1223.508	1134.866
71.5	1063.476	1138.385	1165.624	1172.434	1028.859
72.0	1037.599	1095.256	1121.133	1146.330	920.355
72.5	983.687	1041.004	1077.550	998.215	1026.703
73.0	954.291	1001.279	1037.712	910.254	925.009
73.5	904.012	963.257	994.810	875.637	965.868
74.0	872.346	913.886	959.966	886.760	1042.366
74.5	825.017	864.514	919.901	820.364	930.911
75.0	791.308	811.851	881.993	934.883	857.704
75.5	752.378	751.016	827.173	874.616	833.075
76.0	710.497	708.454	798.912	793.691	797.096
76.5	674.178	692.338	716.853	754.194	751.811
77.0	638.767	674.746	641.945	721.393	711.405
77.5	604.150	653.862	620.267	676.335	677.697
78.0	563.291	623.785	604.263	637.632	635.135
78.5	534.916	590.076	614.705	608.122	589.055
79.0	508.812	546.833	583.720	565.561	609.825
79.5	479.870	509.606	544.450	543.088	505.407
80.0	453.651	474.422	507.223	518.005	476.692
80.5	428.568	441.394	467.498	450.133	515.394
81.0	404.620	413.473	434.243	448.431	477.373
81.5	382.375	382.602	406.209	468.066	411.203
82.0	360.356	352.071	388.617	394.973	406.096
82.5	340.834	320.972	359.108	377.608	406.323

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83.0	323.583	293.846	333.117	373.862	357.973
83.5	303.380	272.963	330.166	340.267	343.104
84.0	279.546	254.122	295.095	318.021	320.064
84.5	253.328	230.514	277.730	298.500	292.825
85.0	226.996	208.950	255.711	269.217	248.788
85.5	199.416	193.968	234.714	228.471	225.748
86.0	172.971	187.272	214.398	205.091	190.336
86.5	148.001	169.566	186.250	162.643	148.682
87.0	126.550	155.946	158.330	137.787	140.624
87.5	106.575	134.836	127.458	127.912	123.713
88.0	88.642	113.725	108.958	104.418	100.219
88.5	70.142	92.841	93.976	94.771	93.295
89.0	52.436	74.909	82.400	82.627	79.222
89.5	42.108	65.261	73.206	71.731	72.752
90.0	39.724	59.586	64.467	67.304	75.136
90.5	41.654	57.316	60.721	70.709	65.715
91.0	43.470	54.933	57.203	65.602	62.424
91.5	44.945	51.982	54.933	60.154	61.516
92.0	44.491	51.642	52.550	56.522	52.890
92.5	46.194	52.777	49.712	51.982	50.053
93.0	46.648	48.237	46.421	48.010	45.967
93.5	45.740	44.605	44.151	42.335	39.951
94.0	45.626	41.086	43.016	39.838	37.795
94.5	45.399	38.362	40.859	38.362	35.752
95.0	43.810	36.660	40.632	37.454	34.730
95.5	43.356	35.525	38.022	35.865	33.936
96.0	43.356	34.617	35.865	33.822	32.574
96.5	44.605	33.482	34.844	32.914	31.098
97.0	48.918	32.460	33.368	31.893	30.304
97.5	54.139	31.439	31.893	31.212	29.623
98.0	67.191	30.758	30.758	30.417	29.282
98.5	83.535	30.304	29.736	29.963	28.374
99.0	98.743	29.963	29.055	29.055	27.807
99.5	112.477	29.509	28.261	28.034	27.467
100.0	121.102	29.055	27.467	27.467	26.672
100.5	127.231	28.488	27.126	26.786	26.332
101.0	133.701	28.148	26.445	25.991	25.878
101.5	138.354	27.694	25.651	25.537	25.083
102.0	137.787	27.126	24.970	24.856	24.970
102.5	138.014	26.786	24.289	24.175	24.402
103.0	133.133	26.899	23.835	23.721	24.175
103.5	129.842	31.666	23.381	23.267	23.608
104.0	125.756	44.718	23.154	22.700	23.154
104.5	121.897	56.749	22.813	22.246	22.927
105.0	118.378	85.464	22.700	21.905	22.473
105.5	114.292	83.308	22.586	21.451	21.792
106.0	110.888	79.222	22.586	21.111	21.338
106.5	107.029	72.071	22.473	20.543	21.224
107.0	103.510	80.357	22.246	20.430	20.884
107.5	99.765	91.252	22.246	20.089	20.770
108.0	96.473	97.041	22.019	20.089	20.203
108.5	93.522	104.986	21.565	19.749	20.203
109.0	89.663	99.424	21.224	19.635	19.749
109.5	86.145	89.096	20.430	19.522	19.522
110.0	83.421	77.860	19.976	19.408	19.408
110.5	81.038	67.531	19.408	19.408	19.522

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CANDELA TABULATION - (Cont.)

111.0	77.860	60.040	19.068	19.408	19.295
111.5	75.249	55.614	18.841	19.295	19.068
112.0	72.071	51.415	18.273	19.295	19.181
112.5	70.482	48.918	17.933	19.408	19.295
113.0	67.872	51.301	17.479	19.181	19.408
113.5	64.353	63.445	17.365	19.068	19.522
114.0	63.332	60.154	16.911	18.614	19.408
114.5	61.175	52.663	16.684	17.933	19.635
115.0	58.678	47.556	16.230	17.025	19.295
115.5	56.522	45.967	16.911	16.117	19.181
116.0	54.706	44.945	23.948	15.663	18.841
116.5	52.777	57.770	29.282	15.436	17.933
117.0	51.188	58.792	25.310	15.095	16.684
117.5	48.918	53.344	21.792	14.641	15.890
118.0	48.123	56.976	21.111	14.755	15.549
118.5	46.988	57.884	26.786	14.074	15.209
119.0	44.718	51.755	34.390	13.733	14.982
119.5	43.016	46.080	38.703	13.393	14.641
120.0	41.427	43.016	39.157	13.279	14.414
120.5	40.519	39.384	41.427	12.939	14.074
121.0	39.951	37.114	37.341	12.712	13.960
121.5	38.476	35.525	30.758	12.258	13.506
122.0	36.887	33.255	26.786	12.031	13.279
122.5	35.525	31.552	24.062	12.144	13.166
123.0	34.390	29.850	22.246	11.917	12.712
123.5	33.482	27.921	20.543	11.463	12.371
124.0	33.482	26.672	18.954	11.236	12.258
124.5	32.687	25.424	17.252	10.896	12.144
125.0	31.325	24.856	16.230	10.555	11.804
125.5	29.963	24.175	15.776	10.442	11.690
126.0	28.715	23.267	14.868	10.215	11.123
126.5	28.715	22.700	13.847	9.988	11.236
127.0	28.148	22.019	12.825	9.874	11.123
127.5	27.353	22.019	12.144	9.534	10.669
128.0	26.332	22.473	11.690	9.307	10.555
128.5	25.424	21.565	11.577	9.193	10.328
129.0	24.402	20.884	11.350	8.853	10.328
129.5	23.835	20.430	11.577	8.739	9.874
130.0	23.381	20.203	10.442	8.626	9.874
130.5	23.040	20.089	10.782	8.399	9.534
131.0	22.700	19.408	12.144	8.285	9.420
131.5	21.678	18.387	12.485	8.058	9.080
132.0	21.111	17.365	11.690	7.718	9.193
132.5	20.316	17.138	12.598	7.604	8.853
133.0	19.181	16.457	11.123	7.604	8.626
133.5	18.387	16.230	9.874	7.491	8.739
134.0	17.592	15.549	9.534	7.150	8.058
134.5	16.684	14.755	8.853	7.264	7.945
135.0	16.571	14.528	8.172	7.264	8.285
135.5	17.138	14.074	7.718	7.150	7.945
136.0	17.138	13.506	6.923	6.923	7.604
136.5	16.003	12.939	6.810	6.810	7.604
137.0	15.663	12.371	6.696	6.696	7.945
137.5	14.868	11.917	6.469	6.356	7.604
138.0	14.074	11.577	6.242	6.356	7.491
138.5	13.279	11.463	6.015	5.902	7.377

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

139.0	12.485	11.123	5.788	5.448	7.037
139.5	11.577	10.328	5.788	4.994	6.696
140.0	11.463	9.420	5.561	4.767	6.469
140.5	11.236	8.853	5.561	4.767	6.583
141.0	11.577	8.853	5.561	4.767	5.902
141.5	11.804	8.512	5.448	4.767	5.675
142.0	11.577	8.399	5.448	4.880	4.994
142.5	10.328	7.718	5.448	4.767	4.653
143.0	9.988	7.264	5.334	4.880	4.653
143.5	9.761	6.810	5.221	4.880	4.653
144.0	9.420	6.356	5.107	4.767	4.880
144.5	8.966	6.129	4.994	5.107	4.880
145.0	8.853	6.129	4.880	4.994	4.994
145.5	8.512	6.015	4.994	5.107	4.994
146.0	7.377	5.902	5.221	5.107	4.994
146.5	7.150	5.902	5.221	4.994	4.880
147.0	6.469	5.902	5.107	5.107	4.994
147.5	6.356	5.675	5.334	5.107	5.221
148.0	6.583	5.561	5.221	5.221	5.334
148.5	6.810	5.561	5.334	5.107	5.107
149.0	7.037	5.448	5.221	5.448	5.221
149.5	6.810	5.561	5.334	5.221	5.221
150.0	6.242	5.561	5.448	5.448	5.221
150.5	5.675	5.334	5.334	5.334	5.221
151.0	5.561	5.334	5.448	5.561	5.448
151.5	5.221	5.334	5.448	5.561	5.334
152.0	5.334	5.334	5.448	5.448	5.448
152.5	5.221	5.334	5.561	5.448	5.334
153.0	4.994	5.448	5.448	5.561	5.448
153.5	5.107	5.448	5.561	5.561	5.221
154.0	5.107	5.448	5.561	5.448	5.448
154.5	5.448	5.448	5.561	5.561	5.788
155.0	5.107	5.448	5.561	5.788	5.675
155.5	4.880	5.561	5.675	5.561	5.675
156.0	5.107	5.561	5.561	5.675	5.675
156.5	5.107	5.561	5.561	5.675	5.675
157.0	4.994	5.561	5.675	5.561	5.561
157.5	5.107	5.561	5.675	5.675	5.561
158.0	5.334	5.675	5.788	5.675	5.448
158.5	5.107	5.561	5.788	5.675	5.675
159.0	5.107	5.561	5.788	5.675	5.675
159.5	5.107	5.788	5.788	5.788	5.788
160.0	5.448	5.675	5.788	5.788	5.788
160.5	5.107	5.788	5.788	5.788	5.788
161.0	5.334	5.902	6.015	5.788	5.788
161.5	5.448	5.788	5.902	5.788	6.015
162.0	5.221	5.675	5.902	6.015	5.788
162.5	5.561	5.788	5.902	5.902	5.675
163.0	5.334	5.902	5.902	6.015	5.788
163.5	5.334	5.902	5.902	6.015	5.902
164.0	5.561	5.675	5.902	6.129	6.129
164.5	5.561	5.788	6.129	6.015	6.015
165.0	5.675	6.015	6.015	6.242	6.129
165.5	5.448	6.015	6.129	6.129	6.356
166.0	5.561	6.015	6.015	6.129	6.242
166.5	5.788	6.129	6.242	6.356	6.242

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CANDELA TABULATION - (Cont.)

167.0	5.675	6.015	6.469	6.356	6.469
167.5	5.675	6.129	6.356	6.356	6.356
168.0	5.561	6.242	6.242	6.356	6.356
168.5	5.675	6.242	6.242	6.356	6.242
169.0	5.675	6.242	6.356	6.583	6.356
169.5	5.788	6.242	6.242	6.469	6.356
170.0	6.015	6.356	6.356	6.356	6.469
170.5	5.675	6.242	6.356	6.583	6.583
171.0	5.902	6.242	6.356	6.469	6.583
171.5	6.129	6.356	6.356	6.583	6.583
172.0	6.015	6.356	6.129	6.356	6.583
172.5	5.902	6.469	6.356	6.583	6.469
173.0	5.448	6.469	6.469	6.696	6.469
173.5	6.015	6.242	6.356	6.696	6.583
174.0	5.902	6.356	6.242	6.696	6.469
174.5	6.129	6.583	6.469	6.583	6.696
175.0	6.015	6.469	6.469	6.810	6.469
175.5	6.015	6.469	6.469	6.469	6.810
176.0	6.015	6.356	6.469	6.696	6.583
176.5	5.902	6.469	6.356	6.696	6.583
177.0	6.015	6.356	6.469	6.696	6.469
177.5	5.902	6.356	6.469	6.696	6.696
178.0	5.788	6.356	6.356	6.469	6.696
178.5	5.902	6.356	6.469	6.696	6.583
179.0	5.902	6.356	6.583	6.583	6.696
179.5	6.015	6.469	6.469	6.583	6.583
180.0	6.356	6.356	6.356	6.356	6.356

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1763.74	N.A.	12.60
0-30	3756.38	N.A.	26.80
0-40	6173.9	N.A.	44.10
0-60	10962.89	N.A.	78.30
0-80	13567.65	N.A.	96.90
0-90	13838.14	N.A.	98.80
10-90	13382.93	N.A.	95.60
20-40	4410.16	N.A.	31.50
20-50	6936.43	N.A.	49.50
40-70	6494.52	N.A.	46.40
60-80	2604.75	N.A.	18.60
70-80	899.22	N.A.	6.40
80-90	270.49	N.A.	1.90
90-110	93.61	N.A.	0.70
90-120	126.62	N.A.	0.90
90-130	144.59	N.A.	1.00
90-150	156.81	N.A.	1.10
90-180	161.66	N.A.	1.20
110-180	68.05	N.A.	0.50
0-180	13999.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	455.22
10-20	1308.52
20-30	1992.64
30-40	2417.52
40-50	2526.27
50-60	2262.72
60-70	1705.53
70-80	899.22
80-90	270.49
90-100	47.03
100-110	46.59
110-120	33.01
120-130	17.97
130-140	8.43
140-150	3.79
150-160	2.55
160-170	1.69
170-180	0.61

IES INDOOR REPORT

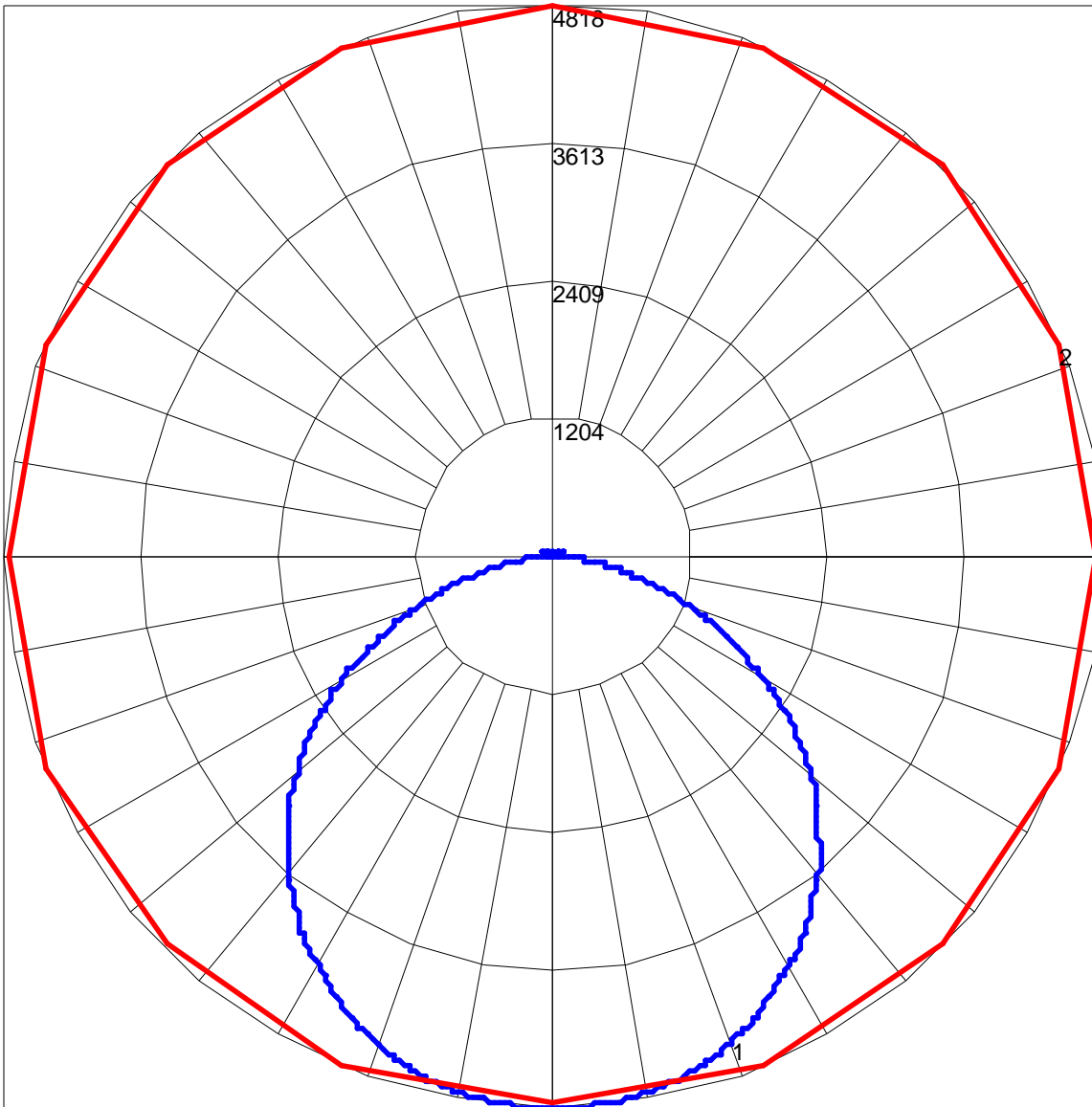
PHOTOMETRIC FILENAME : VWHBS-LED140DMV40.IES

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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101	99
1	108	104	99	96	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	84	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69
3	90	79	71	65	87	78	70	64	74	68	63	72	66	61	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	57	52	61	56	52	49
5	76	63	54	47	73	61	53	47	59	52	46	57	51	45	55	49	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 4817.99 Located At Horizontal Angle = 22.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)