

IES INDOOR REPORT

PHOTOMETRIC FILENAME : VWPH-L30-840-TFT-XXX-SDGL-EM10WC-DIM-UNV_EM MODE ONLY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL009421
[TESTLAB] ATAL-LABS
[ISSUE DATE] 2025-10-29
[TEST DATE] 07/14/15
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] VWPx-L30-840-TFT-xxx-SDGL-EM10C-DIM-UNV
[LUMINAIRE] CAST ALUMINUM LED WALL PACK
[MORE] FORWARD THROW DISTRIBUTION WITH
[MORE] MICRO-PRISMATIC GLASS LENS
[LAMPCAT] X8-LUXEON M
[LAMP] (8) LEDS
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor
[_SEARCH_MOUNTING] Wall

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1100
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.28
Spacing Criterion (90-270)	2.24
Spacing Criterion (Diagonal)	2.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.35 ft
Luminous Width (90-270)	1.10 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10859	10336	10488
55	13450	14408	13450
65	14383	17830	15287
75	11443	15872	12965
85	5070	7947	6714

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CANDELA TABULATION

	<u>0.0</u>	<u>5.0</u>	<u>10.0</u>	<u>15.0</u>	<u>20.0</u>	<u>25.0</u>	<u>30.0</u>	<u>35.0</u>	<u>40.0</u>	<u>45.0</u>
0.0	165.890	165.890	165.890	165.890	165.890	165.890	165.890	165.890	165.890	165.890
2.5	169.364	168.930	168.062	167.193	167.193	167.193	167.627	166.759	166.759	166.325
5.0	166.759	166.325	165.456	164.587	164.153	164.153	164.153	163.719	163.285	163.719
7.5	171.101	170.233	169.364	168.062	166.759	166.325	166.325	165.456	164.153	163.719
10.0	168.496	167.627	166.325	164.587	164.153	165.022	165.890	166.325	166.325	166.759
12.5	171.101	169.799	167.627	166.759	166.325	167.627	167.627	167.193	165.890	166.325
15.0	171.536	170.667	168.930	169.364	170.233	171.536	171.536	171.536	169.799	169.364
17.5	176.313	175.444	173.273	173.707	173.707	174.576	175.010	175.444	174.576	175.444
20.0	180.655	178.918	177.181	177.615	178.484	178.918	181.090	181.090	181.090	181.524
22.5	187.169	185.867	184.564	184.564	182.827	184.130	184.564	186.735	187.604	187.169
25.0	193.683	192.381	191.946	191.512	189.775	190.644	190.209	191.512	192.381	193.249
27.5	204.106	203.237	201.500	199.763	197.592	196.723	195.855	198.895	199.763	198.026
30.0	212.791	211.923	211.054	209.317	208.014	204.974	204.106	205.409	204.540	204.974
32.5	223.214	223.648	223.214	220.608	216.700	214.528	212.357	212.791	211.488	210.620
35.0	236.242	236.242	235.373	232.767	227.556	225.385	223.214	221.042	221.042	219.305
37.5	249.704	247.967	246.230	244.493	239.716	236.676	232.767	232.767	229.293	228.859
40.0	261.863	260.995	258.389	257.955	251.441	249.270	246.230	244.058	240.584	240.150
42.5	270.115	270.549	268.377	270.115	265.338	264.035	260.126	256.652	254.047	251.007
45.0	279.234	280.537	278.366	280.537	277.931	278.366	274.457	270.549	266.206	265.772
47.5	287.919	289.222	288.788	289.657	287.919	288.354	284.011	282.708	278.366	278.800
50.0	290.091	292.262	293.131	292.696	293.565	293.565	293.131	290.525	290.525	287.485
52.5	286.182	288.788	289.657	290.525	295.736	295.736	296.605	294.868	295.302	295.302
55.0	280.537	282.708	283.577	286.617	293.999	293.999	296.171	297.908	299.210	300.513
57.5	269.680	271.852	275.326	281.405	286.182	287.919	294.434	296.605	300.079	300.513
60.0	257.955	259.692	263.166	269.680	274.023	280.537	287.051	292.262	295.736	297.473
62.5	240.150	244.058	247.098	253.178	260.995	267.509	273.589	279.668	287.051	288.788
65.0	221.042	224.082	227.556	234.505	241.453	248.401	254.915	261.429	270.549	274.023
67.5	198.895	199.763	204.106	210.186	215.397	221.911	228.859	236.676	246.664	250.572
70.0	170.667	170.667	174.576	180.221	184.130	190.644	198.026	205.843	214.528	220.608
72.5	138.966	138.966	142.440	148.085	151.994	157.639	166.759	171.101	179.787	185.432
75.0	107.698	107.698	111.607	117.252	121.161	125.503	134.189	139.400	145.480	149.388
77.5	79.471	79.471	82.945	88.156	91.630	95.539	102.487	106.830	110.738	114.647
80.0	54.718	54.283	57.323	61.232	63.837	67.746	73.391	75.563	78.168	81.208
82.5	33.439	33.004	35.610	37.347	40.387	42.124	46.032	47.335	49.072	50.809
85.0	16.068	15.634	17.371	17.805	19.976	20.411	23.016	24.319	24.319	25.188
87.5	4.343	4.343	4.777	4.777	5.645	5.211	6.514	6.948	6.948	7.383
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert.
Angles

Horizontal Angles

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>60.0</u>	<u>65.0</u>	<u>70.0</u>	<u>75.0</u>	<u>80.0</u>	<u>85.0</u>	<u>90.0</u>
0.0	165.890	165.890	165.890	165.890	165.890	165.890	165.890	165.890	165.890	165.890
2.5	166.325	166.325	166.759	167.193	167.193	166.759	166.325	165.890	165.890	165.456
5.0	164.153	164.587	165.022	165.890	166.759	166.759	166.759	166.325	165.456	164.587
7.5	163.719	163.719	163.719	164.153	165.456	166.325	166.759	166.759	166.325	165.456
10.0	166.325	165.456	165.022	163.719	163.285	164.153	165.456	165.890	165.456	164.153
12.5	167.627	167.627	167.627	165.890	164.153	164.587	165.022	166.759	166.759	165.890
15.0	169.364	169.799	170.233	171.970	170.667	169.799	168.496	169.799	169.364	167.627
17.5	175.878	175.010	174.576	174.141	174.141	172.404	171.101	171.536	171.536	170.233
20.0	181.090	180.655	179.787	177.615	176.313	176.313	174.576	174.576	175.878	175.010
22.5	185.867	184.564	184.564	184.130	182.392	182.392	180.221	179.353	180.655	180.221
25.0	191.946	191.512	190.644	190.644	188.472	187.604	186.735	185.432	186.735	187.169
27.5	198.460	198.026	197.158	195.420	194.986	194.118	193.683	194.552	194.986	194.986
30.0	204.540	203.672	202.369	202.369	201.500	202.369	202.369	204.540	204.974	204.974

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CANDELA TABULATION - (Cont.)

32.5	209.317	208.883	208.883	210.620	211.488	209.751	211.054	212.791	212.791	213.660
35.0	218.871	218.437	217.568	219.305	218.871	220.608	222.345	223.648	223.648	226.688
37.5	227.991	227.991	227.991	229.293	229.293	232.767	234.505	234.070	235.373	236.676
40.0	239.282	239.716	240.150	241.019	241.019	244.493	246.664	247.098	249.270	249.704
42.5	253.178	253.612	253.178	254.047	254.481	258.824	259.258	260.126	260.126	260.561
45.0	265.338	265.772	265.338	265.772	267.943	270.983	270.983	270.115	270.115	269.680
47.5	277.497	277.063	276.629	277.931	278.366	279.668	278.800	278.366	276.629	277.063
50.0	287.919	287.485	287.485	287.919	287.485	288.788	287.051	284.011	281.840	282.274
52.5	294.868	295.302	295.302	293.565	293.131	292.262	289.222	287.051	283.577	282.708
55.0	299.645	300.948	300.513	297.908	295.302	293.131	288.354	286.182	281.840	280.537
57.5	301.816	302.685	301.816	297.473	293.999	290.525	284.880	279.668	275.760	273.589
60.0	299.210	299.210	298.776	292.262	289.222	284.445	277.063	271.852	264.469	263.166
62.5	292.262	291.828	290.525	286.617	279.668	275.326	267.075	260.126	253.178	251.441
65.0	277.497	277.497	276.629	274.023	265.338	260.561	253.612	245.361	238.847	234.939
67.5	253.612	254.481	254.915	251.007	245.361	239.282	232.333	224.516	219.739	214.963
70.0	223.648	224.516	224.951	221.911	217.134	213.660	205.843	198.895	193.683	188.472
72.5	189.341	189.775	189.775	187.604	183.695	180.655	174.576	167.627	161.982	157.205
75.0	151.994	151.994	153.731	151.125	149.388	144.611	141.137	132.017	126.372	122.029
77.5	115.515	117.687	117.687	114.647	112.910	109.435	105.527	97.710	92.933	91.196
80.0	81.642	83.814	81.642	80.774	79.471	75.997	73.391	67.746	64.272	63.403
82.5	51.244	52.981	51.678	50.809	51.244	47.769	46.467	42.558	40.821	40.387
85.0	25.622	26.925	27.359	25.622	26.490	24.319	24.319	22.148	21.279	21.279
87.5	7.383	8.251	8.685	7.817	8.685	7.817	8.251	7.383	7.817	7.817
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles

Horizontal Angles

	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0	135.0	140.0
0.0	165.890	165.890	165.890	165.890	165.890	165.890	165.890	165.890	165.890	165.890
2.5	165.022	164.587	164.587	164.587	164.587	164.587	164.587	164.587	164.153	164.153
5.0	164.153	163.285	163.285	163.285	163.285	164.153	165.456	165.890	166.759	167.193
7.5	165.022	164.153	164.153	164.587	165.456	166.759	167.627	166.759	165.890	165.456
10.0	163.285	163.285	164.587	165.890	166.759	166.325	165.890	164.587	163.719	163.719
12.5	164.587	165.456	166.325	166.325	165.022	164.153	164.153	163.719	165.456	166.325
15.0	166.325	167.627	168.496	167.627	166.759	165.890	166.759	167.193	167.193	166.325
17.5	168.062	168.496	169.364	168.496	168.496	170.233	171.536	171.536	171.101	170.667
20.0	174.141	172.839	172.839	172.404	173.707	173.273	174.141	174.576	175.878	175.444
22.5	180.221	179.353	177.615	177.181	177.615	177.615	178.918	178.918	178.918	178.484
25.0	187.169	185.867	183.695	182.827	183.695	183.695	184.564	183.695	183.695	182.392
27.5	193.683	192.381	191.512	191.078	189.341	190.209	188.906	188.472	188.906	187.604
30.0	203.672	202.369	201.934	198.895	195.855	195.855	194.986	194.118	193.683	191.512
32.5	213.225	212.357	211.488	208.883	205.409	202.803	201.934	200.632	200.197	197.158
35.0	226.253	224.082	222.345	219.305	215.397	211.488	208.883	207.146	205.843	202.803
37.5	236.676	235.373	233.202	231.030	224.951	220.608	217.568	214.528	212.357	209.751
40.0	249.704	249.270	246.664	241.887	236.676	232.767	228.425	223.648	219.739	218.437
42.5	261.863	261.429	258.824	256.652	250.572	244.927	238.847	235.807	231.030	229.728
45.0	270.983	270.549	270.115	267.075	261.429	257.521	251.875	247.967	241.887	241.887
47.5	277.063	277.063	278.800	276.629	271.417	267.509	263.600	259.692	257.086	254.481
50.0	284.011	283.143	284.011	284.445	282.708	277.497	275.760	274.023	268.812	267.509
52.5	286.182	286.182	289.222	291.828	290.091	287.485	284.880	284.011	280.971	277.931
55.0	283.577	287.051	291.828	293.565	294.434	293.999	291.828	290.525	287.051	284.011
57.5	278.366	282.708	288.354	291.828	293.131	294.868	293.131	291.828	289.657	284.011
60.0	268.812	272.720	280.103	285.748	287.051	290.091	290.091	287.485	284.011	278.800
62.5	254.915	260.995	267.943	273.154	278.800	279.234	281.840	279.234	275.326	270.549
65.0	238.413	244.927	251.441	256.218	261.429	264.035	266.206	264.035	258.824	254.047
67.5	218.002	223.648	229.293	233.636	238.847	239.716	240.584	238.413	233.202	225.819

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CANDELA TABULATION - (Cont.)

70.0	191.512	195.420	202.369	205.843	211.054	208.014	209.317	207.146	198.895	181.090
72.5	160.245	164.587	169.364	171.536	175.444	170.667	169.799	169.364	146.782	75.563
75.0	124.201	128.978	133.320	136.360	135.057	108.133	100.316	94.670	23.885	2.171
77.5	91.630	95.105	99.013	98.579	74.694	46.467	28.662	2.606	0.869	0.434
80.0	64.272	66.443	68.614	49.507	9.554	2.606	0.869	0.434	0.434	0.000
82.5	40.821	42.124	42.124	18.674	1.303	0.434	0.434	0.434	0.000	0.000
85.0	21.713	21.713	16.936	2.606	0.434	0.000	0.000	0.000	0.000	0.000
87.5	7.817	6.948	1.303	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	<u>145.0</u>	<u>150.0</u>	<u>155.0</u>	<u>160.0</u>	<u>165.0</u>	<u>170.0</u>	<u>175.0</u>	<u>180.0</u>
0.0	165.890	165.890	165.890	165.890	165.890	165.890	165.890	165.890
2.5	164.153	165.022	165.456	166.325	165.890	165.456	165.022	164.587
5.0	167.627	168.062	168.496	168.930	168.496	167.627	166.325	166.325
7.5	165.022	165.022	165.890	165.890	165.022	163.719	162.850	161.982
10.0	163.719	164.153	165.456	166.325	166.325	165.022	163.719	162.850
12.5	166.759	166.325	165.890	165.890	166.325	165.022	163.285	162.416
15.0	167.193	167.627	167.627	167.627	167.193	166.325	165.022	164.153
17.5	171.101	170.667	169.799	168.930	167.627	167.627	167.193	166.325
20.0	174.576	173.273	171.101	171.536	170.233	170.233	168.930	168.496
22.5	178.050	175.878	175.010	175.444	174.576	174.576	173.273	173.273
25.0	182.392	181.090	179.353	178.050	178.918	179.787	178.050	178.484
27.5	186.735	184.998	184.998	184.130	184.130	184.130	181.958	182.827
30.0	191.946	190.644	188.906	188.038	190.644	192.815	190.644	192.815
32.5	195.420	196.723	194.986	195.420	195.420	197.592	198.460	201.500
35.0	201.500	201.934	201.066	203.672	204.974	208.014	209.751	210.620
37.5	208.448	208.448	210.620	212.357	212.791	216.700	219.305	219.739
40.0	217.568	216.700	221.042	223.648	225.385	228.425	231.899	231.465
42.5	227.991	227.122	231.030	234.070	237.110	241.887	244.927	244.927
45.0	240.584	239.716	242.756	247.533	248.401	251.441	255.349	256.652
47.5	254.047	252.310	255.349	258.824	260.126	261.863	265.772	266.640
50.0	267.075	264.903	266.206	269.246	270.549	271.852	273.154	273.589
52.5	276.629	274.023	272.720	273.589	274.023	273.589	273.154	273.154
55.0	278.800	274.457	271.417	270.549	269.680	268.377	266.206	265.772
57.5	275.326	271.852	266.640	263.166	260.561	257.955	255.349	255.349
60.0	270.115	264.035	258.824	254.481	248.835	244.927	239.716	241.019
62.5	261.429	253.612	246.230	239.716	231.465	225.385	218.871	218.871
65.0	244.493	233.636	221.911	210.186	192.381	180.655	164.587	164.153
67.5	212.791	190.644	157.639	118.989	73.391	52.112	26.056	26.056
70.0	137.663	76.865	18.239	3.908	2.171	1.737	1.737	1.737
72.5	10.857	2.606	1.303	1.303	0.869	0.869	0.869	0.869
75.0	1.303	0.869	0.434	0.434	0.434	0.434	0.434	0.434
77.5	0.434	0.434	0.434	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : VWPH-L30-840-TFT-XXX-SDGL-EM10WC-DIM-UNV_EM MODE ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	63.90	N.A.	5.80
0-30	150.71	N.A.	13.70
0-40	288.21	N.A.	26.20
0-60	746.11	N.A.	67.80
0-80	1081.97	N.A.	98.40
0-90	1099.91	N.A.	100.00
10-90	1084.11	N.A.	98.60
20-40	224.30	N.A.	20.40
20-50	427.65	N.A.	38.90
40-70	688.86	N.A.	62.60
60-80	335.86	N.A.	30.50
70-80	104.91	N.A.	9.50
80-90	17.94	N.A.	1.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1099.91	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	15.80
10-20	48.10
20-30	86.80
30-40	137.50
40-50	203.35
50-60	254.56
60-70	230.96
70-80	104.91
80-90	17.94
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT

PHOTOMETRIC FILENAME : VWPH-L30-840-TFT-XXX-SDGL-EM10WC-DIM-UNV_EM MODE ONLY.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	111	111	111	106	106	106	102	102	102	100
1	107	101	97	92	104	99	95	91	95	91	88	91	88	85	87	85	82	80
2	95	86	78	71	92	84	76	70	80	74	68	77	71	67	73	69	65	63
3	85	73	63	56	82	71	62	55	68	60	54	65	59	53	62	57	52	50
4	76	63	52	45	74	61	52	44	59	50	44	56	49	43	54	47	42	40
5	69	54	44	37	67	53	44	36	51	42	36	49	41	35	47	40	35	33
6	63	48	38	31	61	47	37	30	45	36	30	43	36	30	42	35	29	27
7	58	43	33	26	56	42	32	26	40	32	26	39	31	25	37	30	25	23
8	53	38	29	22	52	38	28	22	36	28	22	35	27	22	34	27	22	19
9	49	35	26	19	48	34	25	19	33	25	19	32	24	19	31	24	19	17
10	46	32	23	17	45	31	23	17	30	22	17	29	22	17	28	21	17	15

IES INDOOR REPORT

PHOTOMETRIC FILENAME : VWPH-L30-840-TFT-XXX-SDGL-EM10WC-DIM-UNV_EM MODE ONLY.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	22.8	24.6	23.1	24.9	25.2	22.9	24.7	23.2	25.1	25.4
	3H	24.8	26.5	25.2	26.9	27.2	25.3	27.0	25.6	27.3	27.6
	4H	25.5	27.1	25.9	27.4	27.8	26.0	27.6	26.4	28.0	28.3
	6H	25.8	27.3	26.2	27.7	28.1	26.4	27.9	26.8	28.3	28.7
	8H	25.9	27.3	26.3	27.7	28.1	26.5	28.0	26.9	28.3	28.7
	12H	25.9	27.3	26.3	27.7	28.1	26.6	28.0	27.0	28.3	28.8

UGR Viewed Endwise

4H	2H	23.9	25.5	24.2	25.8	26.2	23.9	25.5	24.3	25.8	26.2
	3H	26.1	27.5	26.5	27.9	28.3	26.5	27.8	26.9	28.2	28.6
	4H	26.8	28.1	27.3	28.5	28.9	27.3	28.6	27.7	29.0	29.4
	6H	27.3	28.4	27.7	28.8	29.3	27.8	28.9	28.3	29.4	29.8
	8H	27.4	28.4	27.9	28.9	29.3	28.0	29.0	28.4	29.4	29.9
	12H	27.5	28.4	27.9	28.8	29.3	28.1	29.0	28.5	29.5	29.9

8H	4H	27.3	28.4	27.8	28.8	29.3	27.6	28.6	28.0	29.0	29.5
	6H	27.9	28.8	28.4	29.2	29.7	28.1	29.0	28.6	29.5	29.9
	8H	28.1	28.8	28.6	29.3	29.8	28.3	29.1	28.8	29.6	30.0
	12H	28.2	28.8	28.7	29.3	29.9	28.4	29.1	28.9	29.6	30.1

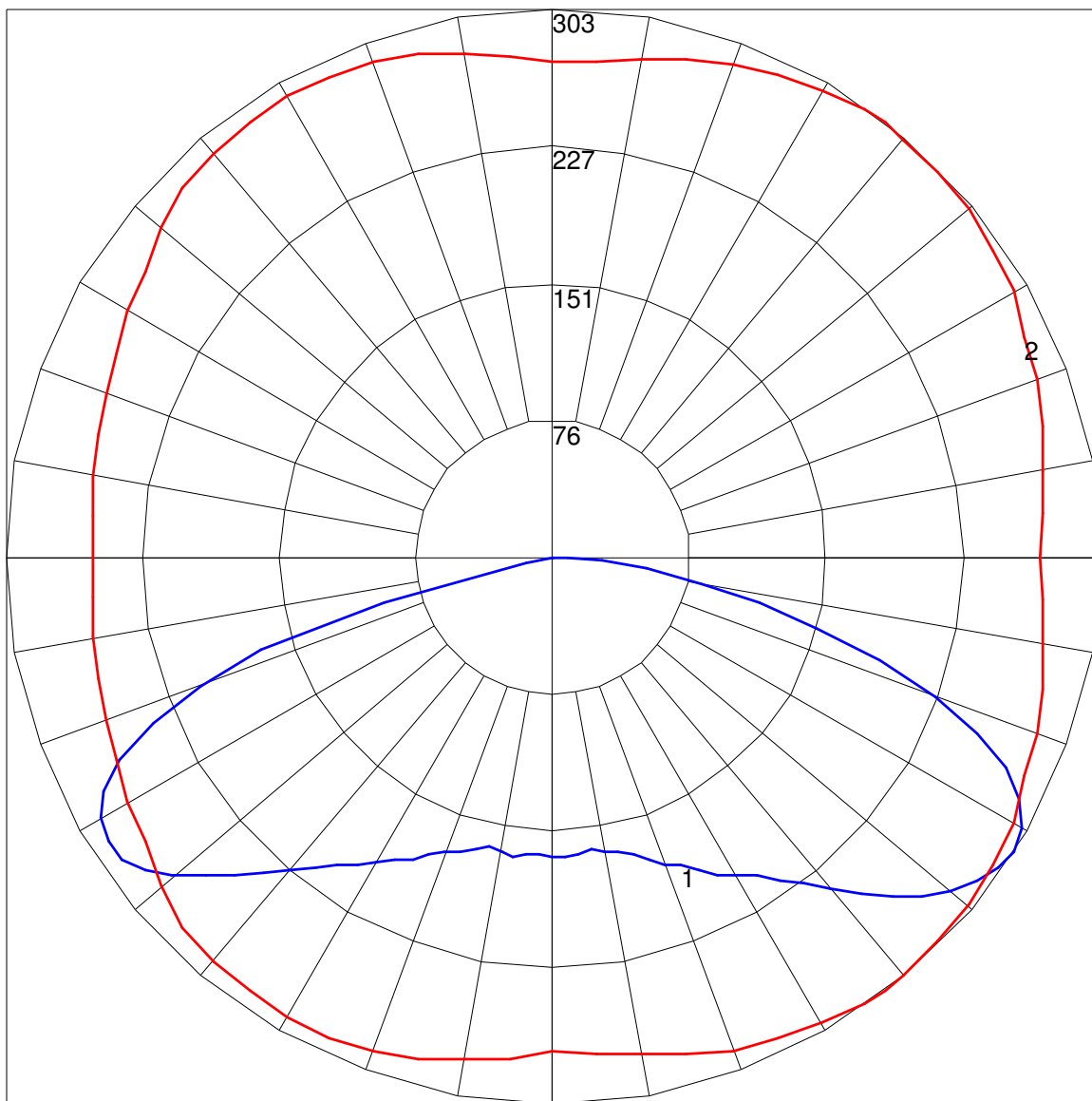
12H	4H	27.4	28.3	27.9	28.8	29.3	27.6	28.5	28.0	29.0	29.4
	6H	28.0	28.8	28.5	29.2	29.8	28.2	28.9	28.7	29.4	29.9
	8H	28.2	28.9	28.7	29.4	29.9	28.4	29.0	28.9	29.5	30.1

Maximum UGR = 30.1

IES INDOOR REPORT

PHOTOMETRIC FILENAME : VWPH-L30-840-TFT-XXX-SDGL-EM10WC-DIM-UNV_EM MODE ONLY.IES

POLAR GRAPH



Maximum Candela = 302.685 Located At Horizontal Angle = 52.5, Vertical Angle = 57.5

1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)