

IES INDOOR REPORT

PHOTOMETRIC FILENAME : VWPH-L30-740-TFT-XXX-CGL-EM10W-DIM-UNV_ (EMER ONLY).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM ATAL009828

[TESTLAB] ATAL-LABS

[ISSUE DATE] 06/25/2025

[TEST DATE] 07/14/15

[MANUFAC] WILLIAMS OUTDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] VWPH-L30-740-TFT-xxx-CGL-EM10W-DIM-UNV (EMER ONLY)

[LUMINAIRE] VOLTAIRE HORIZONTAL ARCHITECTURAL WALL PACK WITH FORWARD

[MORE] THROW MOLDED REFRACTIVE CLEAR ACRYLIC LED LENS AND A CLEAR

[MORE] GLASS LENS.

[LAMPCAT] X8-LUXEON M 3000K

[LAMP] (8) LUXEON M 3000K LEDS

[_SEARCH_SOURCE TYPE] LED

[_SEARCH_APPLICATION] Outdoor, Architectural, Area, Commercial, Facade, Industrial, Manufacturing, Office, Site, Direct, Wet

[_SEARCH_MOUNTING] Wall

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1231
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.42
Spacing Criterion (90-270)	2.34
Spacing Criterion (Diagonal)	2.70
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.35 ft
Luminous Width (90-270)	1.10 ft
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : VWPH-L30-740-TFT-XXX-CGL-EM10W-DIM-UNV_ (EMER ONLY).IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10966	9855	10231
55	14479	15440	13843
65	20677	27969	20208
75	11525	22404	12003
85	781	3905	1207

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	155.732	155.732	155.732	155.732	155.732	155.732	155.732	155.732	155.732	155.732
2.5	157.532	157.082	156.857	156.407	155.957	155.732	155.732	155.957	155.507	155.282
5.0	157.307	156.632	156.182	155.957	155.732	155.732	155.507	155.732	155.282	155.282
7.5	157.307	156.632	155.957	155.957	155.732	155.732	155.507	155.282	154.831	154.606
10.0	157.982	157.082	156.407	156.632	156.182	156.182	155.957	155.732	155.056	154.606
12.5	160.007	158.882	158.432	158.657	158.207	157.982	157.757	157.082	156.182	155.507
15.0	162.933	161.358	161.133	162.033	162.033	161.583	161.358	160.683	159.557	158.432
17.5	166.759	164.958	163.833	164.958	165.184	165.409	165.859	165.409	164.058	162.933
20.0	173.060	171.485	169.684	169.910	169.459	170.135	170.585	170.810	169.684	168.559
22.5	181.162	179.586	177.336	176.886	175.761	176.211	176.436	176.661	175.986	175.086
25.0	189.939	188.813	185.888	184.988	183.412	183.637	183.187	183.637	182.737	182.287
27.5	198.940	197.140	194.214	193.314	191.289	191.514	190.164	190.164	189.939	190.614
30.0	209.743	208.392	204.567	202.766	200.516	199.616	197.365	197.590	197.140	197.365
32.5	221.895	219.645	216.719	214.244	211.318	208.842	205.917	205.467	204.116	203.441
35.0	234.948	233.147	229.997	227.296	223.245	220.095	216.269	214.244	212.218	209.968
37.5	247.100	245.750	242.599	240.349	235.848	232.022	227.521	223.020	220.320	217.844
40.0	258.803	257.902	254.527	252.501	248.225	243.950	238.999	234.048	230.447	227.071
42.5	270.955	269.830	266.679	264.204	260.153	255.427	250.701	246.200	242.149	239.224
45.0	281.982	281.082	278.832	276.356	272.305	267.354	262.853	258.352	255.427	253.401
47.5	292.334	291.434	290.309	288.734	284.908	279.282	275.231	270.730	268.930	268.705
50.0	298.186	298.411	298.861	299.761	297.961	292.334	289.409	285.808	284.233	284.908
52.5	299.536	300.886	304.487	308.538	309.888	306.062	305.162	303.137	301.561	302.461
55.0	302.011	303.587	309.888	317.314	322.040	321.140	321.815	322.941	321.815	322.040
57.5	313.714	316.639	322.265	331.942	338.694	340.719	342.745	347.020	347.471	346.120
60.0	327.441	331.042	337.569	349.496	358.498	364.124	368.175	377.627	382.353	380.777
62.5	329.242	333.293	341.394	353.322	360.973	370.425	380.552	402.157	414.084	414.984
65.0	317.765	322.490	331.717	343.870	353.997	365.474	379.427	410.483	427.137	429.837
67.5	311.013	316.639	331.267	342.295	346.795	349.721	361.873	398.106	418.585	419.035
70.0	300.436	307.412	326.091	339.819	346.345	342.295	345.220	359.623	375.601	375.151
72.5	253.852	259.703	291.659	313.489	324.066	315.964	326.091	311.688	291.434	279.282
75.0	108.472	112.298	136.378	164.733	189.939	211.768	240.574	254.302	221.670	210.868
77.5	39.158	40.058	45.009	50.635	63.913	91.144	131.652	155.282	153.256	159.107
80.0	15.978	16.428	18.679	21.829	27.681	36.007	52.661	68.189	72.240	76.516
82.5	6.526	6.751	7.877	8.777	11.702	15.528	22.280	28.131	29.706	33.082
85.0	2.476	2.476	2.701	3.151	4.051	5.401	8.102	10.352	10.577	12.378
87.5	0.675	0.675	0.675	0.675	0.675	0.675	0.900	0.900	1.350	1.800
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</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	155.732	155.732	155.732	155.732	155.732	155.732	155.732	155.732	155.732	155.732
2.5	155.056	154.831	155.282	155.507	155.056	154.606	154.606	154.606	154.606	154.606
5.0	154.606	154.381	154.831	154.831	154.381	153.706	153.256	153.256	153.031	153.256
7.5	154.381	153.706	154.156	153.931	153.481	152.581	151.906	151.906	151.681	151.681
10.0	154.381	153.256	153.706	153.931	153.931	153.031	152.131	151.906	151.681	151.456
12.5	155.282	154.606	155.056	155.056	155.282	154.381	153.481	153.031	152.581	152.356
15.0	158.432	157.982	158.207	157.982	157.757	157.082	155.732	154.606	154.156	153.931
17.5	162.483	162.258	162.033	161.583	160.683	159.332	158.432	157.532	157.307	157.082
20.0	167.884	167.659	167.434	166.084	164.958	163.383	162.708	162.483	162.483	162.258
22.5	174.410	173.060	172.610	171.485	170.360	169.459	169.234	169.009	169.009	168.784
25.0	181.837	179.586	179.136	178.236	177.336	177.561	177.561	177.336	177.336	176.436
27.5	189.263	186.563	185.438	184.763	184.537	185.438	185.438	185.663	186.113	184.763
30.0	197.365	194.214	191.964	192.189	192.414	193.989	193.989	194.439	195.565	194.214

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CANDELA TABULATION - (Cont.)

32.5	204.341	202.766	199.390	199.841	200.516	202.541	203.666	204.792	206.142	204.341
35.0	210.868	211.093	208.167	208.842	210.418	212.893	214.469	216.494	218.294	216.269
37.5	217.844	219.420	218.744	219.870	222.120	225.271	227.296	229.547	229.997	229.322
40.0	226.846	229.547	230.447	232.697	234.723	237.648	240.799	243.049	243.049	242.599
42.5	237.873	240.799	242.149	245.300	247.775	250.026	252.951	254.752	254.077	254.302
45.0	251.151	253.176	254.977	257.902	260.378	262.403	263.979	263.979	263.078	263.529
47.5	266.454	266.679	267.129	270.505	272.755	275.906	276.581	275.231	273.881	275.006
50.0	283.558	282.432	281.307	283.558	285.808	289.184	288.509	285.583	283.783	285.358
52.5	302.011	299.986	297.510	299.086	299.986	300.886	296.610	291.434	289.859	292.109
55.0	322.040	321.140	316.639	315.289	313.489	310.563	300.661	291.434	288.734	291.434
57.5	347.696	346.345	338.694	335.093	329.017	322.490	307.863	297.510	295.260	296.160
60.0	381.903	379.877	367.275	358.948	349.721	338.694	321.365	311.238	309.213	309.438
62.5	412.959	405.757	383.703	366.824	355.122	340.044	322.040	311.688	309.213	309.663
65.0	425.786	413.184	384.828	363.449	351.746	337.118	322.040	312.363	310.563	309.663
67.5	419.035	403.957	371.550	356.247	353.547	342.970	328.567	312.588	308.988	308.763
70.0	383.928	370.650	355.122	355.572	362.549	355.122	334.643	308.763	302.461	303.587
72.5	290.759	320.015	343.195	336.893	344.095	331.717	300.661	264.204	256.327	262.628
75.0	226.396	265.554	260.828	236.073	199.616	176.436	138.628	112.298	112.973	112.073
77.5	156.632	158.882	140.203	104.871	66.839	58.962	49.510	42.759	43.659	42.759
80.0	74.490	70.889	56.036	42.084	30.831	27.681	22.730	19.804	19.579	18.679
82.5	31.056	30.606	25.205	19.354	14.853	12.152	10.127	8.777	9.002	9.002
85.0	11.927	12.378	10.352	8.102	6.076	5.176	4.276	4.051	3.826	3.826
87.5	2.250	2.926	2.250	2.025	1.800	1.575	1.350	1.125	1.125	1.125
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

	100	105	110	115	120	125	130	135	140	145
0.0	155.732	155.732	155.732	155.732	155.732	155.732	155.732	155.732	155.732	155.732
2.5	154.606	154.381	154.381	154.156	154.381	155.056	154.606	154.606	155.056	155.732
5.0	153.031	152.806	153.031	153.481	153.481	154.156	153.931	153.931	154.381	154.831
7.5	151.456	151.456	152.131	152.581	152.806	153.256	153.256	153.031	153.481	154.156
10.0	151.456	151.681	152.356	152.806	152.581	152.806	152.806	152.806	153.256	153.706
12.5	152.581	153.031	153.931	154.156	153.931	153.256	153.256	153.256	153.931	154.606
15.0	154.381	155.282	155.957	156.632	156.407	156.182	155.957	155.957	156.182	157.082
17.5	157.082	157.307	158.432	159.557	159.557	160.007	159.782	159.557	159.557	160.233
20.0	161.808	161.583	162.033	163.608	163.833	164.283	164.283	164.508	164.058	164.058
22.5	168.109	167.884	167.884	169.009	169.459	169.459	169.459	169.684	169.234	168.784
25.0	176.661	176.211	175.086	175.761	175.761	175.536	176.211	175.986	175.536	174.635
27.5	185.438	184.312	182.962	182.962	182.062	181.837	183.862	183.187	182.062	180.262
30.0	194.214	192.639	190.839	189.714	188.813	189.038	190.389	189.038	187.463	185.438
32.5	203.666	201.191	199.390	197.590	196.015	196.690	196.015	194.214	192.414	191.064
35.0	215.144	212.218	209.292	207.042	204.116	202.991	201.641	198.490	197.140	196.015
37.5	228.421	225.271	222.345	217.844	213.118	210.868	207.717	204.792	202.766	201.866
40.0	241.474	238.323	235.398	230.222	223.470	218.969	215.144	212.443	210.193	209.743
42.5	253.176	249.801	247.550	241.474	235.173	228.871	224.146	221.445	219.420	219.420
45.0	264.204	262.178	258.803	252.501	246.200	239.674	234.498	232.247	230.672	229.772
47.5	276.356	275.456	270.955	264.204	257.677	250.476	246.875	243.724	242.149	240.349
50.0	287.833	288.284	283.783	277.031	270.280	262.853	260.828	257.227	254.302	252.051
52.5	297.060	299.311	297.060	289.634	284.908	278.607	275.681	270.730	268.480	265.779
55.0	299.086	306.062	308.313	304.487	301.561	296.160	292.334	286.708	284.908	282.882
57.5	303.587	311.688	319.790	320.690	319.115	316.414	312.814	305.837	303.812	302.686
60.0	315.289	322.941	335.093	340.944	340.944	343.645	342.069	334.643	331.717	329.467
62.5	314.839	323.616	336.668	348.371	358.498	370.650	373.576	367.500	365.474	359.848
65.0	312.138	318.665	332.618	347.020	357.823	381.227	393.830	393.605	385.053	374.701
67.5	315.289	324.966	332.167	336.893	346.120	379.652	396.756	371.775	345.445	332.167

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CANDELA TABULATION - (Cont.)

70.0	315.064	332.167	338.694	335.993	333.968	352.647	310.338	284.683	308.763	186.788
72.5	288.959	320.015	336.893	327.441	333.293	243.274	214.919	151.006	28.131	5.176
75.0	139.753	175.986	214.469	224.146	204.341	169.459	38.933	3.826	0.900	0.675
77.5	49.960	57.612	69.989	83.717	97.220	2.701	0.900	0.675	0.450	0.450
80.0	22.280	25.205	23.855	19.354	7.427	0.450	0.450	0.225	0.225	0.225
82.5	9.677	9.677	6.301	2.701	0.450	0.225	0.225	0.225	0.225	0.225
85.0	4.051	2.250	1.125	0.225	0.225	0.225	0.225	0.000	0.000	0.000
87.5	0.900	0.225	0.225	0.225	0.225	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

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	155.732	155.732	155.732	155.732	155.732	155.732	155.732
2.5	155.507	155.732	156.182	156.182	156.632	156.182	155.507
5.0	154.606	154.606	155.056	155.056	155.282	155.056	154.156
7.5	153.706	153.706	153.931	153.706	153.931	153.706	152.806
10.0	153.481	153.481	153.481	153.706	154.156	153.706	153.256
12.5	154.606	155.056	154.606	155.056	155.507	155.056	154.606
15.0	157.307	157.307	156.857	157.082	156.857	156.182	155.957
17.5	160.007	159.782	158.657	158.432	158.207	158.207	157.982
20.0	163.608	163.158	161.583	161.583	161.808	162.033	162.258
22.5	168.109	167.434	165.634	165.859	166.534	167.209	168.109
25.0	173.510	171.935	170.810	171.035	171.935	173.060	173.735
27.5	178.011	176.661	175.761	176.211	177.111	178.461	179.361
30.0	182.962	182.062	182.062	182.512	183.637	185.438	186.563
32.5	189.038	188.138	188.138	189.038	190.614	192.864	194.214
35.0	195.340	193.989	195.340	196.690	198.940	201.416	203.216
37.5	201.641	202.316	204.567	206.592	208.842	211.993	214.469
40.0	209.968	211.993	214.018	216.719	219.870	223.470	225.946
42.5	219.870	222.120	224.596	227.071	230.222	234.273	236.973
45.0	230.222	232.247	234.723	237.198	240.349	244.625	246.875
47.5	240.574	241.699	244.850	247.100	250.251	254.527	256.102
50.0	252.051	252.726	255.652	257.902	260.828	264.654	265.554
52.5	265.554	265.554	267.354	269.155	270.055	272.530	272.755
55.0	281.307	279.957	280.182	280.407	278.607	278.156	277.256
57.5	299.986	297.961	296.160	292.559	285.583	281.532	279.732
60.0	326.316	321.815	315.514	306.062	294.360	290.759	289.409
62.5	348.596	335.318	323.166	310.563	299.086	295.485	293.460
65.0	352.647	335.543	320.465	303.137	277.481	243.499	243.274
67.5	329.017	257.677	169.684	93.619	47.035	27.231	20.254
70.0	64.138	32.182	3.826	1.350	0.900	0.900	0.900
72.5	1.350	0.900	0.675	0.675	0.675	0.675	0.450
75.0	0.675	0.450	0.450	0.450	0.225	0.225	0.225
77.5	0.225	0.225	0.225	0.225	0.225	0.000	0.000
80.0	0.225	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
85.0	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
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : VWPH-L30-740-TFT-XXX-CGL-EM10W-DIM-UNV_ (EMER ONLY).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	59.75	N.A.	4.90
0-30	142.70	N.A.	11.60
0-40	275.56	N.A.	22.40
0-60	746.23	N.A.	60.60
0-80	1223.62	N.A.	99.40
0-90	1230.97	N.A.	100.00
10-90	1216.25	N.A.	98.80
20-40	215.81	N.A.	17.50
20-50	413.05	N.A.	33.60
40-70	798.63	N.A.	64.90
60-80	477.39	N.A.	38.80
70-80	149.43	N.A.	12.10
80-90	7.35	N.A.	0.60
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	1230.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	14.72
10-20	45.03
20-30	82.94
30-40	132.87
40-50	197.24
50-60	273.42
60-70	327.97
70-80	149.43
80-90	7.35
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 : VVPH-L30-740-TFT-XXX-CGL-EM10W-DIM-UNV_ (EMER 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	106	101	96	91	104	98	94	89	94	90	87	90	87	84	86	84	81	79
2	94	84	75	68	91	82	74	68	78	72	66	75	69	64	71	67	63	60
3	83	70	60	53	81	69	59	52	66	58	51	63	56	50	60	54	49	46
4	75	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	37
5	67	52	41	33	65	51	41	33	48	40	33	46	38	32	44	37	32	29
6	61	46	35	28	59	44	35	27	43	34	27	41	33	27	39	32	26	24
7	56	40	30	23	54	39	30	23	38	29	23	36	28	23	35	28	22	20
8	52	36	26	20	50	35	26	20	34	26	20	33	25	19	31	24	19	17
9	48	33	23	17	46	32	23	17	31	23	17	30	22	17	29	22	17	15
10	45	30	21	15	43	29	21	15	28	20	15	27	20	15	26	20	15	13

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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	23.5	25.4	23.9	25.7	26.1	23.2	25.1	23.6	25.4	25.8
	3H	27.0	28.8	27.4	29.1	29.5	26.9	28.6	27.2	29.0	29.3
	4H	27.7	29.3	28.1	29.7	30.0	27.5	29.2	27.9	29.6	29.9
	6H	27.7	29.2	28.1	29.6	30.0	27.6	29.1	28.0	29.5	29.9
	8H	27.7	29.1	28.1	29.5	29.9	27.5	29.0	28.0	29.4	29.8
	12H	27.6	29.1	28.1	29.5	29.9	27.5	29.0	27.9	29.3	29.8

UGR Viewed Endwise

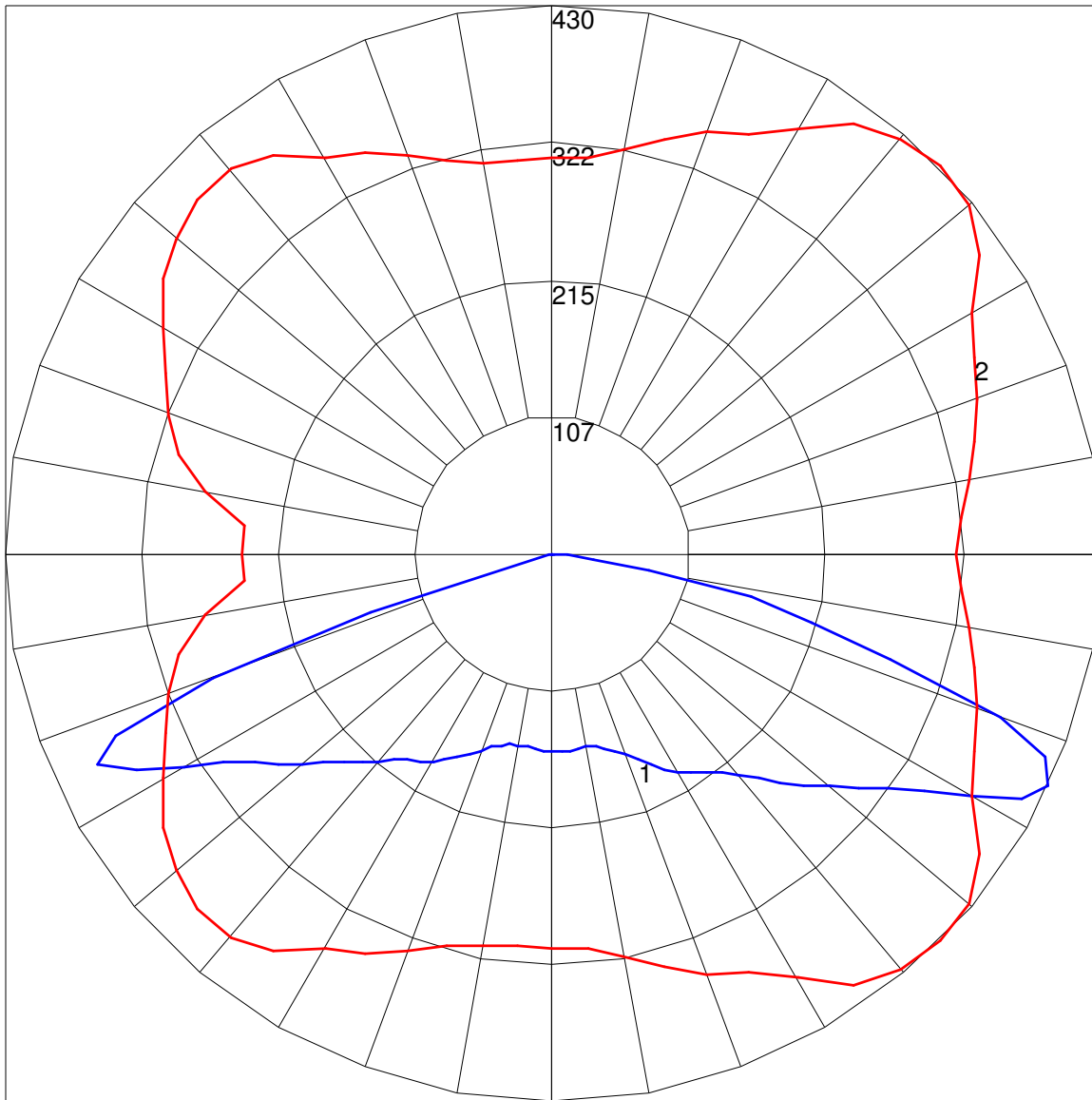
4H	2H	25.3	27.0	25.7	27.3	27.7	25.0	26.7	25.4	27.0	27.4
	3H	28.7	30.1	29.1	30.5	30.9	28.6	30.0	29.0	30.4	30.8
	4H	29.4	30.7	29.8	31.1	31.5	29.3	30.6	29.8	31.1	31.5
	6H	29.4	30.6	29.9	31.0	31.4	29.4	30.5	29.8	31.0	31.4
	8H	29.4	30.5	29.9	30.9	31.4	29.4	30.4	29.8	30.9	31.3
	12H	29.4	30.4	29.9	30.9	31.3	29.4	30.4	29.9	30.8	31.3
8H	4H	29.9	30.9	30.3	31.4	31.8	29.6	30.7	30.0	31.1	31.6
	6H	30.0	30.9	30.5	31.3	31.8	29.7	30.6	30.2	31.0	31.5
	8H	30.0	30.7	30.5	31.2	31.7	29.7	30.5	30.2	31.0	31.4
	12H	30.0	30.7	30.5	31.1	31.7	29.7	30.4	30.2	30.9	31.4
12H	4H	29.9	30.9	30.4	31.3	31.8	29.6	30.6	30.1	31.0	31.5
	6H	30.0	30.8	30.5	31.2	31.8	29.7	30.5	30.2	30.9	31.5
	8H	30.0	30.7	30.5	31.2	31.7	29.7	30.4	30.2	30.9	31.4

Maximum UGR = 31.8

IES INDOOR REPORT

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POLAR GRAPH



Maximum Candela = 429.837 Located At Horizontal Angle = 45, Vertical Angle = 65

1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)