

IES INDOOR REPORT

PHOTOMETRIC FILENAME : VWPX-L60-740-TFT-XXX-CGL-EM-10W-DIM-UNV_ (EMER ONLY).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL009828
[TESTLAB] ATAL-LABS
[ISSUE DATE] 2025-09-30
[TEST DATE] 07/14/15
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] VWPx-L60-740-EM/10CEC-TFT-xxx-CGL-DIM-UNV
[LUMINAIRE] CAST ALUMINUM LED WALL PACK
[MORE] FORWARD THROW DISTRIBUTION WITH
[MORE] CLEAR 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	1300
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
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

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11581	10407	10805
55	15291	16305	14619
65	21835	29537	21341
75	12171	23660	12676
85	825	4124	1275

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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	164.461	164.461	164.461	164.461	164.461	164.461	164.461	164.461	164.461	164.461
2.5	166.362	165.887	165.649	165.174	164.698	164.461	164.461	164.698	164.223	163.985
5.0	166.124	165.411	164.936	164.698	164.461	164.461	164.223	164.461	163.985	163.985
7.5	166.124	165.411	164.698	164.698	164.461	164.461	164.223	163.985	163.510	163.272
10.0	166.837	165.887	165.174	165.411	164.936	164.936	164.698	164.461	163.748	163.272
12.5	168.976	167.788	167.313	167.550	167.075	166.837	166.600	165.887	164.936	164.223
15.0	172.066	170.402	170.165	171.115	171.115	170.640	170.402	169.689	168.501	167.313
17.5	176.106	174.205	173.016	174.205	174.442	174.680	175.155	174.680	173.254	172.066
20.0	182.761	181.097	179.196	179.433	178.958	179.671	180.146	180.384	179.196	178.007
22.5	191.316	189.653	187.276	186.801	185.612	186.088	186.325	186.563	185.850	184.899
25.0	200.585	199.397	196.307	195.357	193.693	193.931	193.455	193.931	192.980	192.505
27.5	210.091	208.190	205.101	204.150	202.011	202.249	200.823	200.823	200.585	201.298
30.0	221.499	220.073	216.033	214.132	211.755	210.804	208.428	208.665	208.190	208.428
32.5	234.333	231.956	228.867	226.252	223.163	220.548	217.459	216.984	215.558	214.845
35.0	248.117	246.216	242.889	240.037	235.759	232.431	228.391	226.252	224.113	221.737
37.5	260.951	259.525	256.197	253.821	249.068	245.027	240.274	235.521	232.669	230.055
40.0	273.309	272.358	268.793	266.655	262.139	257.623	252.395	247.166	243.364	239.799
42.5	286.143	284.954	281.627	279.013	274.735	269.744	264.753	260.000	255.722	252.633
45.0	297.788	296.837	294.461	291.846	287.569	282.340	277.587	272.834	269.744	267.605
47.5	308.720	307.770	306.581	304.918	300.878	294.936	290.658	285.905	284.004	283.766
50.0	314.900	315.137	315.612	316.563	314.662	308.720	305.631	301.828	300.165	300.878
52.5	316.325	317.751	321.554	325.832	327.258	323.218	322.267	320.128	318.464	319.415
55.0	318.940	320.603	327.258	335.101	340.091	339.141	339.854	341.042	339.854	340.091
57.5	331.298	334.388	340.329	350.549	357.678	359.817	361.956	366.472	366.947	365.521
60.0	345.795	349.598	356.490	369.086	378.592	384.534	388.812	398.793	403.784	402.121
62.5	347.697	351.974	360.530	373.126	381.207	391.188	401.883	424.698	437.294	438.245
65.0	335.576	340.567	350.311	363.144	373.839	385.960	400.695	433.492	451.079	453.931
67.5	328.446	334.388	349.836	361.481	366.234	369.324	382.157	420.421	442.048	442.523
70.0	317.276	324.644	344.369	358.867	365.759	361.481	364.570	379.781	396.655	396.179
72.5	268.080	274.260	308.007	331.060	342.230	333.675	344.369	329.159	307.770	294.936
75.0	114.552	118.592	144.022	173.967	200.585	223.638	254.059	268.556	234.095	222.687
77.5	41.353	42.303	47.532	53.474	67.495	96.252	139.031	163.985	161.846	168.026
80.0	16.874	17.349	19.726	23.053	29.232	38.026	55.612	72.011	76.289	80.804
82.5	6.892	7.130	8.318	9.269	12.358	16.399	23.528	29.708	31.371	34.936
85.0	2.614	2.614	2.852	3.327	4.278	5.704	8.556	10.932	11.170	13.071
87.5	0.713	0.713	0.713	0.713	0.713	0.713	0.951	0.951	1.426	1.901
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	164.461	164.461	164.461	164.461	164.461	164.461	164.461	164.461	164.461	164.461
2.5	163.748	163.510	163.985	164.223	163.748	163.272	163.272	163.272	163.272	163.272
5.0	163.272	163.035	163.510	163.510	163.035	162.322	161.846	161.846	161.609	161.846
7.5	163.035	162.322	162.797	162.559	162.084	161.133	160.421	160.421	160.183	160.183
10.0	163.035	161.846	162.322	162.559	162.559	161.609	160.658	160.421	160.183	159.945
12.5	163.985	163.272	163.748	163.748	163.985	163.035	162.084	161.609	161.133	160.896
15.0	167.313	166.837	167.075	166.837	166.600	165.887	164.461	163.272	162.797	162.559
17.5	171.591	171.353	171.115	170.640	169.689	168.263	167.313	166.362	166.124	165.887
20.0	177.294	177.057	176.819	175.393	174.205	172.541	171.828	171.591	171.591	171.353
22.5	184.187	182.761	182.285	181.097	179.909	178.958	178.720	178.483	178.483	178.245
25.0	192.029	189.653	189.177	188.227	187.276	187.514	187.514	187.276	187.276	186.325
27.5	199.872	197.020	195.832	195.119	194.881	195.832	195.832	196.070	196.545	195.119
30.0	208.428	205.101	202.724	202.962	203.199	204.863	204.863	205.338	206.527	205.101

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CANDELA TABULATION - (Cont.)

32.5	215.795	214.132	210.567	211.042	211.755	213.894	215.082	216.271	217.697	215.795
35.0	222.687	222.925	219.836	220.548	222.212	224.826	226.490	228.629	230.530	228.391
37.5	230.055	231.719	231.006	232.194	234.570	237.898	240.037	242.413	242.889	242.176
40.0	239.561	242.413	243.364	245.740	247.879	250.969	254.296	256.673	256.673	256.197
42.5	251.207	254.296	255.722	259.049	261.664	264.040	267.130	269.031	268.318	268.556
45.0	265.229	267.368	269.269	272.358	274.973	277.112	278.775	278.775	277.825	278.300
47.5	281.389	281.627	282.102	285.667	288.044	291.371	292.084	290.658	289.232	290.421
50.0	299.452	298.263	297.075	299.452	301.828	305.393	304.680	301.591	299.689	301.353
52.5	318.940	316.801	314.187	315.850	316.801	317.751	313.236	307.770	306.106	308.483
55.0	340.091	339.141	334.388	332.962	331.060	327.971	317.514	307.770	304.918	307.770
57.5	367.185	365.759	357.678	353.876	347.459	340.567	325.119	314.187	311.810	312.761
60.0	403.309	401.170	387.861	379.068	369.324	357.678	339.378	328.684	326.545	326.783
62.5	436.106	428.501	405.210	387.386	375.027	359.104	340.091	329.159	326.545	327.020
65.0	449.653	436.344	406.399	383.821	371.463	356.015	340.091	329.872	327.971	327.020
67.5	442.523	426.600	392.377	376.216	373.364	362.194	346.984	330.110	326.307	326.070
70.0	405.448	391.426	375.027	375.503	382.870	375.027	353.400	326.070	319.415	320.603
72.5	307.057	337.953	362.432	355.777	363.382	350.311	317.514	279.013	270.695	277.349
75.0	239.086	280.439	275.448	249.305	210.804	186.325	146.399	118.592	119.305	118.355
77.5	165.411	167.788	148.062	110.750	70.585	62.267	52.285	45.155	46.106	45.155
80.0	78.665	74.863	59.177	44.442	32.559	29.232	24.004	20.914	20.676	19.726
82.5	32.797	32.322	26.618	20.439	15.686	12.834	10.695	9.269	9.506	9.506
85.0	12.596	13.071	10.932	8.556	6.417	5.466	4.516	4.278	4.040	4.040
87.5	2.377	3.090	2.377	2.139	1.901	1.664	1.426	1.188	1.188	1.188
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	164.461	164.461	164.461	164.461	164.461	164.461	164.461	164.461	164.461	164.461
2.5	163.272	163.035	163.035	162.797	163.035	163.748	163.272	163.272	163.748	164.461
5.0	161.609	161.371	161.609	162.084	162.084	162.797	162.559	162.559	163.035	163.510
7.5	159.945	159.945	160.658	161.133	161.371	161.846	161.846	161.609	162.084	162.797
10.0	159.945	160.183	160.896	161.371	161.133	161.371	161.371	161.371	161.846	162.322
12.5	161.133	161.609	162.559	162.797	162.559	161.846	161.846	161.846	162.559	163.272
15.0	163.035	163.985	164.698	165.411	165.174	164.936	164.698	164.698	164.936	165.887
17.5	165.887	166.124	167.313	168.501	168.501	168.976	168.739	168.501	168.501	169.214
20.0	170.878	170.640	171.115	172.779	173.016	173.492	173.492	173.729	173.254	173.254
22.5	177.532	177.294	177.294	178.483	178.958	178.958	178.958	179.196	178.720	178.245
25.0	186.563	186.088	184.899	185.612	185.612	185.375	186.088	185.850	185.375	184.424
27.5	195.832	194.644	193.218	193.218	192.267	192.029	194.168	193.455	192.267	190.366
30.0	205.101	203.437	201.536	200.347	199.397	199.634	201.060	199.634	197.971	195.832
32.5	215.082	212.468	210.567	208.665	207.002	207.715	207.002	205.101	203.199	201.773
35.0	227.203	224.113	221.024	218.647	215.558	214.369	212.943	209.616	208.190	207.002
37.5	241.225	237.898	234.808	230.055	225.064	222.687	219.360	216.271	214.132	213.181
40.0	255.009	251.682	248.592	243.126	235.996	231.243	227.203	224.351	221.974	221.499
42.5	267.368	263.803	261.426	255.009	248.355	241.700	236.709	233.857	231.719	231.719
45.0	279.013	276.874	273.309	266.655	260.000	253.108	247.642	245.265	243.602	242.651
47.5	291.846	290.896	286.143	279.013	272.121	264.516	260.713	257.386	255.722	253.821
50.0	303.967	304.442	299.689	292.559	285.430	277.587	275.448	271.645	268.556	266.179
52.5	313.711	316.088	313.711	305.868	300.878	294.223	291.134	285.905	283.528	280.676
55.0	315.850	323.218	325.594	321.554	318.464	312.761	308.720	302.779	300.878	298.739
57.5	320.603	329.159	337.715	338.666	337.002	334.150	330.347	322.980	320.841	319.653
60.0	332.962	341.042	353.876	360.055	360.055	362.907	361.243	353.400	350.311	347.934
62.5	332.486	341.755	355.539	367.898	378.592	391.426	394.516	388.099	385.960	380.018
65.0	329.634	336.527	351.261	366.472	377.879	402.596	415.905	415.667	406.636	395.704
67.5	332.962	343.181	350.786	355.777	365.521	400.932	418.995	392.614	364.808	350.786

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CANDELA TABULATION - (Cont.)

70.0	332.724	350.786	357.678	354.826	352.687	372.413	327.733	300.640	326.070	197.258
72.5	305.155	337.953	355.777	345.795	351.974	256.910	226.965	159.470	29.708	5.466
75.0	147.587	185.850	226.490	236.709	215.795	178.958	41.115	4.040	0.951	0.713
77.5	52.761	60.841	73.912	88.410	102.669	2.852	0.951	0.713	0.475	0.475
80.0	23.528	26.618	25.192	20.439	7.843	0.475	0.475	0.238	0.238	0.238
82.5	10.219	10.219	6.654	2.852	0.475	0.238	0.238	0.238	0.238	0.238
85.0	4.278	2.377	1.188	0.238	0.238	0.238	0.238	0.000	0.000	0.000
87.5	0.951	0.238	0.238	0.238	0.238	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>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	164.461	164.461	164.461	164.461	164.461	164.461	164.461
2.5	164.223	164.461	164.936	164.936	165.411	164.936	164.223
5.0	163.272	163.272	163.748	163.748	163.985	163.748	162.797
7.5	162.322	162.322	162.559	162.322	162.559	162.322	161.371
10.0	162.084	162.084	162.084	162.322	162.797	162.322	161.846
12.5	163.272	163.748	163.272	163.748	164.223	163.748	163.272
15.0	166.124	166.124	165.649	165.887	165.649	164.936	164.698
17.5	168.976	168.739	167.550	167.313	167.075	167.075	166.837
20.0	172.779	172.304	170.640	170.640	170.878	171.115	171.353
22.5	177.532	176.819	174.918	175.155	175.868	176.581	177.532
25.0	183.236	181.572	180.384	180.622	181.572	182.761	183.474
27.5	187.989	186.563	185.612	186.088	187.038	188.464	189.415
30.0	193.218	192.267	192.267	192.742	193.931	195.832	197.020
32.5	199.634	198.684	198.684	199.634	201.298	203.675	205.101
35.0	206.289	204.863	206.289	207.715	210.091	212.706	214.607
37.5	212.943	213.656	216.033	218.172	220.548	223.876	226.490
40.0	221.737	223.876	226.015	228.867	232.194	235.996	238.611
42.5	232.194	234.570	237.185	239.799	243.126	247.404	250.256
45.0	243.126	245.265	247.879	250.494	253.821	258.336	260.713
47.5	254.059	255.247	258.574	260.951	264.278	268.793	270.457
50.0	266.179	266.892	269.982	272.358	275.448	279.488	280.439
52.5	280.439	280.439	282.340	284.241	285.192	287.806	288.044
55.0	297.075	295.649	295.887	296.124	294.223	293.748	292.797
57.5	316.801	314.662	312.761	308.958	301.591	297.313	295.411
60.0	344.607	339.854	333.199	323.218	310.859	307.057	305.631
62.5	368.135	354.113	341.280	327.971	315.850	312.048	309.909
65.0	372.413	354.351	338.428	320.128	293.035	257.148	256.910
67.5	347.459	272.121	179.196	98.867	49.671	28.757	21.389
70.0	67.733	33.985	4.040	1.426	0.951	0.951	0.951
72.5	1.426	0.951	0.713	0.713	0.713	0.713	0.475
75.0	0.713	0.475	0.475	0.475	0.238	0.238	0.238
77.5	0.238	0.238	0.238	0.238	0.238	0.000	0.000
80.0	0.238	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 : VWPX-L60-740-TFT-XXX-CGL-EM-10W-DIM-UNV_ (EMER ONLY).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	63.10	N.A.	4.90
0-30	150.69	N.A.	11.60
0-40	291.01	N.A.	22.40
0-60	788.05	N.A.	60.60
0-80	1292.21	N.A.	99.40
0-90	1299.97	N.A.	100.00
10-90	1284.42	N.A.	98.80
20-40	227.91	N.A.	17.50
20-50	436.21	N.A.	33.60
40-70	843.40	N.A.	64.90
60-80	504.15	N.A.	38.80
70-80	157.80	N.A.	12.10
80-90	7.76	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	1299.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	15.55
10-20	47.55
20-30	87.59
30-40	140.32
40-50	208.30
50-60	288.74
60-70	346.35
70-80	157.80
80-90	7.76
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 : VWPX-L60-740-TFT-XXX-CGL-EM-10W-DIM-UNV_ (EMER ONLY).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	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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : VWPX-L60-740-TFT-XXX-CGL-EM-10W-DIM-UNV_ (EMER 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	23.7	25.6	24.1	26.0	26.3	23.4	25.3	23.8	25.6	26.0
	3H	27.3	29.0	27.6	29.3	29.7	27.1	28.8	27.5	29.2	29.5
	4H	27.9	29.5	28.3	29.9	30.3	27.8	29.4	28.1	29.8	30.1
	6H	27.9	29.4	28.3	29.8	30.2	27.8	29.3	28.2	29.7	30.1
	8H	27.9	29.4	28.3	29.7	30.1	27.7	29.2	28.2	29.6	30.0
	12H	27.8	29.3	28.3	29.7	30.1	27.7	29.2	28.2	29.5	30.0

UGR Viewed Endwise

4H	2H	25.5	27.2	25.9	27.5	27.9	25.2	26.9	25.6	27.2	27.6
	3H	28.9	30.3	29.3	30.7	31.1	28.8	30.2	29.2	30.6	31.0
	4H	29.6	30.9	30.0	31.3	31.7	29.5	30.8	30.0	31.3	31.7
	6H	29.6	30.8	30.1	31.2	31.7	29.6	30.7	30.0	31.2	31.6
	8H	29.6	30.7	30.1	31.1	31.6	29.6	30.7	30.1	31.1	31.6
	12H	29.6	30.6	30.1	31.1	31.5	29.6	30.6	30.1	31.0	31.5

8H	4H	30.1	31.2	30.6	31.6	32.1	29.8	30.9	30.3	31.3	31.8
	6H	30.2	31.1	30.7	31.5	32.0	29.9	30.8	30.4	31.2	31.7
	8H	30.2	31.0	30.7	31.5	31.9	29.9	30.7	30.4	31.2	31.6
	12H	30.2	30.9	30.7	31.3	31.9	29.9	30.6	30.4	31.1	31.6

12H	4H	30.1	31.1	30.6	31.5	32.0	29.8	30.8	30.3	31.2	31.7
	6H	30.2	31.0	30.7	31.4	32.0	29.9	30.7	30.4	31.1	31.7
	8H	30.2	30.9	30.7	31.4	31.9	29.9	30.6	30.4	31.1	31.6

Maximum UGR = 32.1

IES INDOOR REPORT

PHOTOMETRIC FILENAME : VWPX-L60-740-TFT-XXX-CGL-EM-10W-DIM-UNV_ (EMER ONLY).IES

POLAR GRAPH

